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MEMO

To: **Brandon Pursel, USEPA**
From: Francis Biehl, PE and Jason Martinez
CC: Grant Trigger, RACER Trust; David Favero, RACER Trust
Date: August 14, 2019

Project #: R2330025
Re: RACER Van Buren Landfill Site – Spring 2019 Semi-Annual Ground Water Sampling Results

Tables, Figures and Attachments Included in this Memo are:

- Table 1, Analytes for Semi-Annual Ground Water Monitoring
- Table 2, Summary of Groundwater Sample Results (Non-Residential)
- Table 3, Summary of Groundwater Sample Results (Residential)
- Table 4, Total Depth to Bottom of Wells and Estimated Sediment Accumulation
- Figure 1, Site Location Map
- Figure 2, Groundwater Elevation Contour Map (May 2019)
- Figure 3, Monitoring Well Analytical Summary Through May 2019
- Figure 4, Iron Concentration Contours (May 2019)
- Attachment 1, Low Flow Ground Water Field Sampling Forms
- Attachment 2, Laboratory Analytical Data Reports

The Mannik & Smith Group, Inc. (MSG) has been performing ground water sampling activities at the Van Buren Landfill (VBL) Property located northeast of the Ecorse Road / Michigan Avenue intersection in Van Buren Township, Wayne County, Michigan (Site) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust. *Figure 1, Site Location Map*, depicts the location of the Site relative to nearby roads and major topographic features.

Previous phases of investigation and associated findings were documented in the following reports: *Phase IA Site Investigation*, dated February 19, 2013; *RACER Van Buren Landfill Site – Phase IB Site Investigation*, dated November 20, 2013; *Phase II Site Investigation*, dated March 12, 2014; *Phase III Site Investigation*, dated September 4, 2014; and *RACER Van Buren Landfill Site – Phase IV Site Investigation*, dated July 23, 2015. Previous Semi Annual Ground Water Sampling reports for the Fall, 2015, Spring and Fall 2016, Spring and Fall 2017, and Spring and Fall 2018 semi-annual ground water sampling events were sent in 2016, 2017 and 2018 respectively (results for all other semi-annual sampling events were discussed in the investigation reports).

The Spring 2019 Semi Annual Ground Water Sampling activities completed on the General Motors Property are summarized in a separate memo.

SPRING 2019 SEMI-ANNUAL GROUND WATER MONITORING EVENT

Since September 2012, MSG has conducted semi-annual ground water monitoring in accordance with *USEPA Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* and the *Site Sampling Analysis Plan (SAP)*. Proposed modifications to the Semi–Annual Ground Water Sampling Plan were approved by the USEPA Project Manager, Christopher Black via email on November 10, 2015. The modifications included analyzing for total and dissolved Aluminum, Iron and Manganese from all

monitoring wells and VOCs from MW-10, MW-23, and MW-24. *Table 1, Analytes for Semi-Annual Ground Water Monitoring* depicts the analyte list utilized during the Spring 2019 semi-annual ground water monitoring.

The Spring 2019 Semi-Annual Ground Water Sampling event was completed between April 29, 2019 to May 6, 2019 by Jason Martinez, Spencer Rogers and Andrew Hildebrandt and included sampling of monitoring wells associated with the Site. Furthermore, in order to assess ground water quality south of Ecorse Road and to assist in confirmation of background concentrations (primarily for dissolved iron, aluminum, and manganese), a monitoring well located at the former GM Willow Run Powertrain Plant (CRA-266M) was sampled and a static water level was measured to aid in the ground water flow assessment. Static ground water elevations were measured at two (2) other wells (CRA-265M, and CRA-833M) that are close to CRA-266M to aid in ground water flow assessment. Finally, total well depths were measured at every well to calculate the amount of sediment accumulation in each well.

Ground water sampling field sheets can be found in *Attachment 1, May2019 Field Sheets.* Ground water sampling activities were conducted in general accordance with *USEPA Low-flow (Minimal Drawdown) Ground-Water Sampling Procedures* and the Site *SAP/QAPP*. Samples were analyzed for total and dissolved Aluminum, Iron and Manganese. Samples from well MW-10 were analyzed for VOCs in addition to the dissolved metals listed above.

HYDROGEOLOGY

Depth to groundwater was measured in all existing monitoring wells located on the Van Buren Landfill Site and associated adjacent properties. Based on the collected data, ground water appears to flow radially from a local ground water high (ground water mounding) in the central portion of the Site similar to what has been presented in previous reports. Ground water elevation contours and ground water flow from the May 2019 ground water hydraulic monitoring data are illustrated on *Figure 2, Ground Water Elevation Contour Map (May2019).*

GROUND WATER SAMPLE RESULTS

A summary of ground water sample analytical results compared to non-residential cleanup criteria are summarized in *Table 2, Summary of Ground Water Sample Results (Non-Residential).* Results compared to residential cleanup criteria are summarized in *Table 3 Summary of Ground Water Sample Results (Residential)*. In addition, total well depths along with estimated sediment accumulation for each well are summarized in *Table 4, Total Depth to Bottom of Wells and Estimated Sediment Accumulation*. The laboratory reports can be found in *Attachment 2, Laboratory Analytical Data Reports.* The distribution of contaminants detected at concentrations exceeding applicable criteria (Health-Based DW) are depicted on *Figure 3, Monitoring Well Analytical Summary through April 2019 Semi-Annual Ground Water Monitoring (Exceedances Only).*

SUMMARY AND RECOMMENDATIONS

In summary, the ground water sample analytical results from the Spring 2019 Semi-Annual Ground Water Sampling Event were very similar to previous ground water sampling results. The results indicate that ground water samples collected to date from wells along the northern and western perimeter of the Site (monitoring wells MW-1, MW-7, MW-9, and MW-10) contain concentrations of dissolved iron above applicable criteria (MDEQ Part 201 Non-residential Health-Based DW criteria). Samples collected from MW-11 (also located at the northern perimeter of the Site) continue to contain dissolved aluminum, iron and manganese concentrations below MDEQ Part 201 Non-residential Health-Based DW criteria.

It is apparent upon examination of the ground water sample analytical results that ground water south of the Site along Ecorse Road (MW-20) contain dissolved iron at concentrations above MDEQ Part 201 Residential Health-Based DW criteria, the Willow Run Airport wells (MW-35 and MW-36) contain concentrations of dissolved Aluminum, Iron or Manganese below MDEQ Part 201 Residential Health-Based DW criteria, and that these concentrations have generally remained consistent for all sampling events.

Based on dissolved iron concentrations over time and (more importantly) within peripheral monitoring wells located off-Site (depicted in the attached supporting documentation), in conjunction with the length of time that the landfill has been closed (approximately 47 years) the contaminant plume related to the Site (i.e., existing area of groundwater contamination) appears to be stable.

There is a concern that the total metals results are being influenced by sediment build up in the wells and in turn, by turbidity of the water as a result of the sampling activities. Therefore, it is believed that dissolved metal concentrations are more representative of ground water quality compared to total metals.

Total Well Depths were compared to earlier well depths during development of the well and the amount of sediment accumulation in each well was calculated. The result was that thirteen (13) monitoring wells (excluding those monitoring wells on the GM Site and discussed in the report "General Motors Property – April 2019 Semi-Annual Ground Water Sampling Results") on and around the Site have an estimated sediment accumulation of over 0.5 feet. All subsequent monitoring events will include the measurement and recording of sediment volume within each monitoring well and purging of water to attempt to lower turbidity to less than 10 NTU before a water sample is collected.

TABLES

Table 1
Proposed Analytes for Semi-Annual Ground Water Monitoring

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

Monitoring Well (MW) ID	Location	Purpose of MW[1]	VOCs	Total Metals[2]	Dissolved Metals[2]
USEPA Testing Method			8260	6020A/7470	6020A/7470
MW-1	North Perimeter of Site	Hydro Assessment, Metals		√	√
MW-3	East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-4	On-Site	Hydro Assessment, Metals		√	√
MW-5	North West Perimeter of Site	Hydro Assessment, Metals		√	√
MW-6	On-Site	Hydro Assessment, Metals		√	√
MW-7	South West Perimeter of Site	Hydro Assessment, Metals		√	√
MW-8	Ecorse Rd (westbound) ROW	Hydro Assessment, Metals		√	√
MW-9	West Perimeter of Site	Hydro Assessment, Metals		√	√
MW-10	North Perimeter of Site	Hydro Assessment, VOCs, Metals	√	√	√
MW-11	North East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-12	On-Site	Hydro Assessment, Metals		√	√
MW-13	On-Site	Hydro Assessment			
MW-14	On-Site	Hydro Assessment			
MW-15	On-Site	Hydro Assessment			
MW-16	On-Site	Hydro Assessment			
MW-17	South East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-18	Ecorse Rd (eastbound) ROW	Hydro Assessment, Metals		√	√
MW-19	Ecorse Rd (eastbound) ROW	Hydro Assessment, Metals		√	√
MW-20	Ecorse Rd (eastbound) ROW	Hydro Assessment, Metals		√	√
MW-21	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-22	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-23	North of Site (Smith Property)	Hydro Assessment, VOCs, Metals	√	√	√
MW-24	North of Site (Smith Property)	Hydro Assessment, VOCs, Metals	√	√	√
MW-25	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-26	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-27	East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-28	On-Site	Hydro Assessment			
MW-29	Michigan Ave (Westbound) ROW	Hydro Assessment, Metals		√	√
MW-30	Michigan Ave (Westbound) ROW	Hydro Assessment, Metals		√	√
MW-31	GM Property	Hydro Assessment, Metals		√	√
MW-32	GM Property	Hydro Assessment, Metals		√	√
MW-33	GM Property	Hydro Assessment, Metals		√	√
MW-34	Rawsonville Rd/Michigan Ave	Hydro Assessment, Metals		√	√
Proposed[3]	Willow Run Airport	Hydro Assessment, Metals		√	√
Proposed[3]	Willow Run Airport	Hydro Assessment, Metals		√	√
CRA-265M	Willow Run Powertrain Plant	Hydro Assessment			
CRA-266M	Willow Run Powertrain Plant	Hydro Assessment, Metals		√	√
CRA-833M	Willow Run Powertrain Plant	Hydro Assessment			
CRA-834M	Willow Run Powertrain Plant	Hydro Assessment			
Total Number of Samples			3	31	31

Notes:

[1] = Constituents historically and/or currently detected in monitoring well exceeding applicable Michigan Part 201 Generic Cleanup Criteria.

[2] = Al, Fe, Mn (Method 6020A).

[3] = Subject to being granted access and installed.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	**7.3**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<25	<1.0	<1.0	<50	<50	**0.78 J**	<1.0	<5.0	<1.0	**6.9**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<25	<1.0	<1.0	<50	**6.9 J**	**0.81 J**	<1.0	<5.0	<1.0	**9.9**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<25	<1.0	<1.0	<50	<50	**0.57 J**	<1.0	<5.0	<1.0	**5.1**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.59 J**	<1.0	<5.0	<1.0	**3.5 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.60 J**	<1.0	<5.0	<1.0	**3.2 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<25	<1.0	<1.0	<50	<50	**0.35 J**	<1.0	<5.0	<1.0	**4.3 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3- & 4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**1.0 J**	<5.0	**1.7 J**	<1.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.5 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	**4.2 J**	<5.0	<5.0	<5.0	<10	<5.0	**0.85 J**	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**	<1.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.43 J**	**15**	**1,500**	<1.0	<1.0	**1.1 J**	**2.8 J**	**1.3 J**	<0.005	**17,000**	<3.0	<50	**130**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013						**67**	**0.21 J**	**23**	**1,700**	<1.0	**0.17 J**	**1.5 J**	**3.4 J**	**3.3 J**		**25,000**	**0.25 J**	<50	**120**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.27 J**	**23**	**1,900**	<1.0	**0.10 J**	**1.3 J**	**3.7 J**	**1.2 J**	<0.005	**25,000**	**0.076 J**	<50	**120**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013						**33 J**	**0.19 J**	**28**	**2,200**	<1.0	<1.0	**2.0 J**	**3.1 J**	**0.62 J**		**21,000**	**0.17 J**	<50	**86**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.21 J**	**27**	**2,200**	<1.0	**0.12 J**	**2.5 J**	**3.7 J**	<4.0	**0.0044 J**	**21,000**	<3.0	<50	**90**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014						**14 J**	**0.18 J**	**16 J**	**1,300**	**0.15 J**	<1.0	**0.78 J**	**2.6 J**	**2.4 J**		**17,000**	**0.13 J**	<50	**69**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<100	**0.19 J**	**16**	**1,600**	**0.19 J**	**0.18 J**	**2.7 J**	**3.0 J**	**2.0 J**	**6.7 J**	**18,000**	<3.0	<50	**65**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014						**120**	**0.23 J**	**26**	**1,700**	<1.0	**0.062 J**	**1.6 J**	**1.9 J**	**0.55 J**		**18,000**	<3.0	<50	**83**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.24 J**	**25**	**1,700**	<1.0	<1.0	**1.2 J**	**2.0 J**	<4.0	**3.9 J**	**17,000**	<3.0	<50	**80**
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014						**74**	**0.19 J**	**25**	**1,800**	<1.0	<1.0	**1.4 J**	**2.0 J**	**0.17 J**		**18,000**	<3.0	<50	**81**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.18 J**	**25**	**1,700**	<1.0	<1.0	**1.4 J**	**1.8 J**	<4.0	**4.6 J**	**17,000**	<3.0	<50	**78**
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015						**30 J**	**0.26 J**	**27**	**1,900**	<1.0	<1.0	**1.3 J**	**2.3 J**	**1.1 J**		**21,000**	<3.0	<50	**81**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.31 J**	**27**	**2,000**	<1.0	<1.0	**1.3 J**	**2.2 J**	**0.50 J**	<5.0	**21,000**	<3.0	<50	**81**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015						**210**	NS	NS	NS	NS	NS	NS	NS	NS		**23,000**	NS	**160,000**	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**59**
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**57**
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016						**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**57**
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**42 J**
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017						**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**150,000**	**42 J**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**160,000**	**41 J**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017						**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**73**
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**60**
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**48**
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**48**
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**170**
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**160**
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019						**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**130**
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**130**
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.29 J**	**14**	**900**	<1.0	<1.0	**1.1 J**	**4.2 J**	**0.39 J**		**9,300**	**0.12 J**	<50	**86**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.51 J**	**1.5 J**	**220**	<1.0	**0.047 J**	**0.86 J**	**1.5 J**	**3.2 J**	<0.005	**2,000**	**0.11 J**	<50	**67**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013						**120**	**0.28 J**	**3.9 J**	**300**	<1.0	**0.11 J**	**0.84 J**	**0.95 J**	**5.4**		**4,000**	**0.24 J**	<50	**44 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.2 J**	**0.40 J**	**3.8 J**	**320**	<1.0	**0.063 J**	**4.5 J**	**1.9 J**	**3.5 J**	<0.005	**4,000**	<3.0	<50	**46 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013						**190**	**0.33 J**	**3.3 J**	**260**	<1.0	<1.0	**1.1 J**	**1.0 J**	**2.1 J**		**3,800**	**0.30 J**	<50	**38 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.31 J**	**3.7 J**	**300**	<1.0	<1.0	**0.46 J**	**1.3 J**	**1.3 J**	<0.005	**3,900**	<3.0	<50	**36 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014						**450**	**0.22 J**	**0.76 J**	**130**	<1.0	<1.0	**0.48 J**	**0.84 J**	**2.6 J**		**2,000**	**0.79 J**	<50	**33 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**89 J**	**0.24 J**	**0.62 J**	**150 J**	<1.0	<1.0	<10	**1.5 J**	**2.1 J**	<0.005	**1,400**	**0.079 J**	<50	**23 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014						**610**	**0.27 J**	**4.1 J**	**310**	**0.23 J**	<1.0	**0.97 J**	**1.5 J**	**3.0 J**		**4,900**	**0.63 J**	<50	**130**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**	<1.0	<1.0	**0.35 J**	**1.9 J**	**2.4 J**	NS	**4,700**	<3.0	<50	**110**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014						**820**	**0.24 J**	**2.7 J**	**340**	<1.0	<1.0	**1.5 J**	**1.5 J**	**3.5 J**		**5,200**	**0.98 J**	<50	**74**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.21 J**	**2.2 J**	**350**	<1.0	<1.0	**0.32 J**	**1.3 J**	**2.2 J**	<5.0	**4,400**	<3.0	<50	**66**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015						**260**	**0.28 J**	**2.8 J**	**290**	<1.0	**0.11 J**	**0.75 J**	**0.74 J**	**2.4 J**		**4,600**	<3.0	<50	**37 J**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.41 J**	**1.7 J**	**370**	<1.0	**0.11 J**	**0.48 J**	**1.3 J**	**2.1 J**	<5.0	**5,000**	<3.0	<50	**39 J**
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015						**240**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**120,000**	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016						**85**	NS	NS	NS	NS	NS	NS	NS	NS		**1,800**	NS	NS	**13 J**
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**14 J**
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016						**48 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	ND	NS	**140**
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**140**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,DF}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**9.1 J**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**2.0 J**	**6.0 J**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**1.7 J**	**5.6 J**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013	<0.2	**7.7 J**	<5.0	<0.20	<2.0	**1.7 J**	**3.4 J**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**1.8 J**	**3.4 J**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014	<0.2	**7.5 J**	**0.71 J**	<0.2	<2.0	**1.8 J**	**2.0 J**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<0.2	**7.5 J**	<5.0	<0.2	<2.0	**1.6 J**	**1.4 J**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.6 J**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.2 J**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**1.8 J**	<50
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015	<0.2	**5.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.3 J**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.5 J**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<0.2	**15 J**	**0.91 J**	<0.20	<2.0	**0.60 J**	**3.7 J**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<0.2	**4.9 J**	**0.98 J**	<0.20	**0.49 J**	**0.53 J**	**2.3 J**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013	<0.2	**5.6 J**	**3.6 J**	<0.20	<2.0	**0.75 J**	**4.4 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<0.2	**7.2 J**	**3.6 J**	<0.20	<2.0	**0.60 J**	**2.4 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013	<0.2	**6.4 J**	**5.6**	<0.20	<2.0	**0.88 J**	**4.3 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<0.2	**6.6 J**	**5.0 J**	<0.20	<2.0	**0.32 J**	**2.6 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014	<0.2	**4.8 J**	**1.2 J**	<0.20	<2.0	**1.1 J**	**5.9 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<0.2	**4.8 J**	**1.3 J**	<0.20	<2.0	**0.41 J**	**1.9 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014	**0.057 J**	**8.9 J**	**0.76 J**	<0.20	**0.22 J**	**1.6 J**	**8.0 J**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	**0.058 J**	**8.0 J**	**1.4 J**	<0.20	<2.0	**0.56 J**	**3.8 J**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	<0.2	**7.8 J**	**1.5 J**	<0.20	<2.0	**2.1 J**	**9.1 J**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<0.2	**7.0 J**	**1.6 J**	<0.20	<2.0	**0.56 J**	**4.2 J**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	<0.2	**4.7 J**	**1.3 J**	**0.055 J**	<2.0	**0.65 J**	**4.5 J**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<0.2	**5.9 J**	**2.2 J**	**0.081 J**	<2.0	<4.0	<50
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<25	<1.0	<1.0	<50	**12 J**	**0.39 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<25	<1.0	<1.0	<50	**8.5 J**	**0.43 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<25	<1.0	<1.0	<50	**6.9 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<25	<1.0	<1.0	<50	**15 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

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Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	**1.2 J**	<4.0	<5.0	**0.99 J**	<5.0	<5.0	<1.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	**1.2 J**	<4.0	<5.0	**0.93 J**	<5.0	<5.0	<1.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**72,000**	**260**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**69,000**	**230**
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017						**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	**71,000**	**250**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**67,000**	**230**
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017						**78**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**93**
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**88**
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018						**470**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**240**
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**230**
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**200**
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,500**	NS	NS	**200**
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019						**1,900**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**300**
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**260**
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**7.6 J**	**0.097 J**	**1.4 J**	**470**	<1.0	<1.0	**1.1 J**	**1.2 J**	<4.0	<0.005	**14,000**	<3.0	<50	**56**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.14 J**	**1.2 J**	**480**	<1.0	<1.0	**0.85 J**	**1.3 J**	**0.26 J**	<0.005	**15,000**	**0.034 J**	<50	**55**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.21 J**	<5.0	**410**	<1.0	<1.0	**0.84 J**	**2.7 J**	<4.0	<0.005	**11,000**	<3.0	<50	**490**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013						**4.5 J**	**0.22 J**	<5.0	**480**	<1.0	**0.29 J**	**0.80 J**	**2.4 J**	**2.7 J**		**16,000**	<3.0	<50	**77**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**170**	**0.12 J**	<5.0	**490**	<1.0	**0.29 J**	**1.4 J**	**1.5 J**	**2.6 J**	<0.005	**16,000**	**0.30 J**	<50	**80**
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013						**490**	**0.23 J**	**1.7 J**	**460**	<1.0	<1.0	**2.9 J**	**2.2 J**	**1.4 J**		**16,000**	**1.2 J**	<50	**96**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.19 J**	**1.1 J**	**460**	<1.0	**0.34 J**	**0.78 J**	**2.0 J**	**0.65 J**	<0.005	**15,000**	<3.0	<50	**70**
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014						**2,800**	**0.40 J**	**5.1**	**480**	**0.095 J**	<1.0	**4.5 J**	**5.7 J**	**9.6 J**		**20,000**	**7.5**	<50	**700**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.23 J**	**2.9 J**	**450**	<1.0	<1.0	**0.37 J**	**2.4 J**	**2.0 J**	**3.4 J**	**15,000**	<3.0	<50	**410**
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014						**500**	**0.35 J**	**2.8 J**	**430**	<1.0	<1.0	**1.3 J**	**2.0 J**	**1.9 J**		**14,000**	**0.71 J**	<50	**110**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.5 J**	**0.37 J**	**2.5 J**	**410**	<1.0	<1.0	**0.54 J**	**1.8 J**	**0.95 J**	<5.0	**12,000**	<3.0	<50	**100**
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015						**3,100**	**0.33 J**	**2.3 J**	**500**	<1.0	<1.0	**4.7 J**	**3.4 J**	**7.8**		**20,000**	**4.4**	<50	**140**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.1 J**	**0.23 J**	**0.97 J**	**450**	<1.0	<1.0	**0.55 J**	**1.7 J**	**1.1 J**	<5.0	**16,000**	<3.0	<50	**69**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015						**84**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016						**81**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**490**
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**560**
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016						**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**72**
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017						**21 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	**150,000**	**760**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	**140,000**	**730**
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**62**
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**680**
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**690**
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018						**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**71**
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**69**
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019						**82**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**810**
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**790**
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019						**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**790**
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**810**
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.17 J**	**31**	**1,300**	<1.0	<1.0	**1.5 J**	**2.3 J**	<4.0	<0.005	**5,300**	**0.3 J**	<50	**56**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.27 J**	**31**	**1,300**	<1.0	<1.0	**1.9 J**	**2.3 J**	<4.0	<0.005	**5,400**	**0.061 J**	<50	**58**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013						**330**	**2.2 J**	**34**	**1,500**	<1.0	**0.84 J**	**2.1 J**	**2.3 J**	**3.5 J**		**5,300**	**2.1 J**	<50	**56**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.27 J**	**31**	**1,400**	<1.0	**0.16 J**	**1.6 J**	**3.1 J**	**2.1 J**	<0.005	**4,300**	**0.069 J**	<50	**50**
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013						**420**	**0.26 J**	**40**	**1,400**	<1.0	**0.98 J**	**2.6 J**	**2.6 J**	**3.5 J**		**6,500**	**4.9 J**	<50	**81 J**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.20 J**	**38**	**1,300**	<1.0	**0.57 J**	**2.9 J**	**2.6 J**	<4.0	**0.0016**	**5,900**	<3.0	<50	**71 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<0.2	**2.4 J**	**0.46 J**	<0.20	<2.0	**0.75 J**	**1.9 J**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<0.2	**2.4 J**	<5.0	<0.025	<2.0	**0.73 J**	**2.4 J**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**0.85 J**	**1.1 J**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.0 J**	**2.4 J**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<0.2	**4.0 J**	**1.0 J**	<0.20	<2.0	**1.4 J**	**3.5 J**
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**2.1 J**	**7.5 J**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.94 J**	**2.8 J**
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	<0.2	**16 J**	**1.4 J**	<0.20	**0.12 J**	**8.5**	**35 J**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**0.74 J**	**20 J**
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	<0.2	**6.2 J**	<5.0	<0.20	<2.0	**2.2 J**	**6.5 J**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<0.2	**5.4 J**	<5.0	<0.20	<2.0	**1.0 J**	**3.1 J**
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	<0.2	**11 J**	<5.0	**0.029 J**	<2.0	**6.6**	**23 J**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.71 J**	<50
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<0.2	**3.5 J**	**0.69 J**	<0.20	<2.0	**1.3 J**	**1.1 J**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<0.2	**3.9 J**	**0.67 J**	<0.20	**0.069 J**	**1.2 J**	**1.1 J**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013	<0.2	**4.9 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**10 J**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**3.1 J**
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**2.5 J**	**11 J**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.4 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018																			
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<25	<1.0	<1.0	<50	**11 J**	**4.9**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<25	<1.0	<1.0	<50	<50	**2.8**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<25	<1.0	<1.0	<50	<50	**4.6**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<25	<1.0	<1.0	<50	<50	**3.2**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	**1.3 J**	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<25	<1.0	<1.0	<50	<50	**2.0**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018																			
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**	<1.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.47 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	**0.58 J**	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014						**1,100**	**0.50 J**	**40**	**1,300**	**0.25 J**	**0.49 J**	**3.3 J**	**3.1 J**	**8.0 J**		**8,100**	**12 J**	<50	**93**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**0.25 J**	**31**	**1,200**	<1.0	<1.0	**0.61 J**	**2.6 J**	**1.0 J**	**2.6 J**	**4,500**	**0.34**	<50	**57**
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014						**280**	**0.20 J**	**33**	**1,400**	<1.0	**2.1**	**1.7 J**	**2.0 J**	**0.86 J**		**5,500**	**1.4 J**	<50	**79**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.4 J**	**0.19 J**	**32**	**1,400**	<1.0	**0.026 J**	**1.7 J**	**1.9 J**	<4.0	<5.0	**5,000**	**2.4 J**	<50	**73**
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015						**360**	**0.24 J**	**34**	**1,400**	<1.0	**5.3**	**2.2 J**	**2.4 J**	**3.9 J**		**6,200**	**2.3 J**	<50	**81**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.29 J**	**30**	**1,500**	<1.0	<1.0	**1.3 J**	**2.6 J**	**0.98 J**	<5.0	**5,200**	<3.0	<50	**73**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015						**3,100**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	**150,000**	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	**140,000**	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016						**2,800**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS	**150**
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**58**
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016						**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**79**
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**52**
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**72**
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**50**
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017						**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**140,000**	**56**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	**140,000**	**50 J**
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017						**890**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS	**76**
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**62**
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018						**740**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**390**
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**380**
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018						**590**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**440**
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019						**700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**120**
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**87**
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.16 J**	**9.4**	**580**	<1.0	<1.0	**1.0 J**	**2.4 J**	**0.31 J**	<0.005	**26,000**	**0.057 J**	<50	**500**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**7.5 J**	**0.15 J**	**3.7 J**	**480**	<1.0	<1.0	**1.6 J**	**1.5 J**	<4.0	<0.005	**18,000**	**0.31 J**	<50	**640**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013						**47 J**	**0.11 J**	**6.0**	**540**	<1.0	**0.19 J**	**0.94 J**	**1.9 J**	**4.40**		**22,000**	**0.29 J**	<50	**790**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.8 J**	**0.15 J**	**5.5**	**550**	<1.0	**0.25 J**	**0.75 J**	**2.4 J**	**3.5 J**	<0.005	**21,000**	**0.063 J**	<50	**750**
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013						**200 J**	**0.16 J**	**5.4 J**	**520**	<1.0	**0.25 J**	**1.8 J**	**1.7 J**	**1.4 J**		**18,000**	**0.55 J**	<50	**430**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**160**	**0.14 J**	**5.5 J**	**520**	<1.0	**0.43 J**	**2.2 J**	**1.7 J**	**1.3 J**	<0.005	**18,000**	**0.41 J**	<50	**430**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014						**76**	**0.15 J**	**3.0 J**	**460**	<1.0	<1.0	**0.56 J**	**2.0 J**	**2.0 J**		**11,000**	**0.31 J**	<50	**410**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.6 J**	**0.17 J**	**3.4 J**	**460**	<1.0	<1.0	**0.37 J**	**1.4 J**	**1.9 J**	**1.3 J**	**10,000**	<3.0	<50	**410**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014						**320**	**0.17 J**	**4.5 J**	**570**	<1.0	**0.068 J**	**1.7 J**	**1.1 J**	**0.85 J**		**18,000**	<3.0	<50	**420**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.6 J**	**0.17 J**	**4.8 J**	**540**	<1.0	<1.0	**0.53 J**	**1.0 J**	<4.0	<5.0	**17,000**	<3.0	<50	**410**
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015						**300**	**0.35 J**	**3.1 J**	**430**	<1.0	**0.098 J**	**1.5 J**	**1.7 J**	**4.1**		**12,000**	**1.1 J**	<50	**500**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.41 J**	**1.9 J**	**360**	<1.0	<1.0	**0.42 J**	**1.5 J**	**2.0 J**	<5.0	**11,000**	<3.0	<50	**470**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015						**30 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**130,000**	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016						**100**	NS	NS	NS	NS	NS	NS	NS	NS		**5,800**	NS	NS	**320**
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	**7.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**360**
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016						**76**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**500**
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**490**
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017						**83**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	**52,000**	**960**
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**47,000**	**910**
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017						**550**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**410**
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**360**
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**370**
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**370**
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018						**32**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS	**260**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	<0.2	**9.2 J**	<5.0	**0.051 J**	<2.0	**4.2**	**26 J**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<0.2	**6.5 J**	**0.70 J**	<0.20	<2.0	**1.3 J**	**0.65 J**
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	<0.2	**3.4 J**	<5.0	**0.029 J**	<2.0	**2.1 J**	**6.0 J**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<0.2	**3.4 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**2.2 J**	**9.3 J**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<0.2	**3.8 J**	**0.051 J**	<0.025	<2.0	**1.2 J**	**1.5 J**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**0.99 J**	**2.1 J**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.8 J**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.2 J**
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.7 J**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.3 J**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014	<0.2	**11 J**	<5.0	<0.20	**0.084 J**	**1.2 J**	**5.0 J**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<0.2	**12 J**	<5.0	<0.20	<2.0	**0.99 J**	**3.0 J**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014	<0.2	**4.9 J**	<5.0	**0.027 J**	<2.0	**2.2 J**	**14 J**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<0.2	**4.2 J**	<5.0	**0.020 J**	<2.0	**1.8 J**	<50
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015	<0.2	**15 J**	<5.0	<0.20	<2.0	**1.9 J**	**42 J**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.84 J**	**33 J**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																			
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
							Metals														
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P-R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**250**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,DW}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																			
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<25	<1.0	<1.0	<50	**5.5 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<25	<1.0	<1.0	<50	<50.0	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																			
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.95 J**	<5.0	<5.0	<1.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.18 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018						U	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS	NS	U
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	12,000	NS	NS	420
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018						5.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	11,000	NS	NS	400
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	7.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	12,000	NS	NS	410
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019						430	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,300	NS	NS	740
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	9.4 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	500	NS	NS	660
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	6.4 J	0.84 J	0.87 J	450	<1.0	<1.0	1.4 J	3.4 J	2.1 J	<0.005	3,400	0.074 J	<50	530
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013						39 J	0.39 J	18	520	<1.0	0.43 J	1.4 J	3.8 J	2.2 J		8,100	0.47 J	<50	910
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<5.0	<5.0	<2.0	<5.0	<5.0	5.3 J	0.48 J	17	520	<1.0	0.21 J	1.2 J	4.3 J	3.1 J	<0.005	7,700	0.096 J	<50	880
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013						21 J	0.58 J	7.0 J	370	<1.0	1.2 J	1.3 J	3.6 J	2.4 J		5,700	0.31 J	<50	490
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	6.9 J	0.57 J	6.4 J	380	<1.0	0.92 J	1.3 J	4.1 J	1.5 J	0.0037 J	5,600	<3.0	<50	480
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014						11 J	0.18 J	3.5 J	330	<1.0	0.54 J	0.72 J	3.8 J	7.9		8,900	0.39 J	<50	560
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	3.6 J	0.16 J	3.4 J	370	<1.0	<1.0	<2.0	3.2 J	4.4	<0.005	9,600	<3.0	<50	530
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014						20 J	0.18 J	4.5 J	420	<1.0	0.16 J	0.98 J	2.9 J	0.69 J		10,000	<3.0	<50	690
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	4.4 J	0.18 J	3.2 J	420	<1.0	<1.0	0.81 J	2.5 J	<4.0	<5.0	9,400	<3.0	<50	670
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015						130	0.21 J	2.9 J	320	<1.0	0.39 J	1.1 J	3.1 J	2.9 J		8,500	0.42 J	<50	440
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	3.1 J	0.26 J	2.4 J	330	<1.0	<1.0	0.87 J	3.2 J	1.6 J	<5.0	8,600	<3.0	<50	450
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015						69	NS	NS	NS	NS	NS	NS	NS	NS		7,500	NS	150,000	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	35 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,600	NS	150,000	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016						6.6 J	NS	NS	NS	NS	NS	NS	NS	NS		11,000	NS	NS	500
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	2.0 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	11,000	NS	NS	470
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016						23 J	NS	NS	NS	NS	NS	NS	NS	NS		7,900	NS	NS	340
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	7.9 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,600	NS	NS	320
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017						66	NS	NS	NS	NS	NS	NS	NS	NS		7,300	NS	170,000	490
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	4.3 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	6,900	NS	160,000	470
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017						17	NS	NS	NS	NS	NS	NS	NS	NS		8,000	NS	NS	760
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	4.3 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,800	NS	NS	740
MW-7	W-R2330024-042318-DMS-006	4/23/2018						30	NS	NS	NS	NS	NS	NS	NS	NS		7,200	NS	NS	610
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	4.6 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,000	NS	NS	600
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018						62	NS	NS	NS	NS	NS	NS	NS	NS		10,000	NS	NS	1,000
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	5.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	8,200	NS	NS	950
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019						67	NS	NS	NS	NS	NS	NS	NS	NS		6,000	NS	NS	670
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	4.5 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	5,700	NS	NS	690
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<5.0	<5.0	<2.0	<5.0	<5.0	11 J	0.21 J	1.2 J	380	<1.0	<1.0	0.56 J	1.5 J	<4.0	<0.005	6,200	<3.0	<50	180
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013						51	0.16 J	4.1 J	470	<1.0	0.12 J	1.2 J	1.5 J	3.8 J		8,200	0.80 J	<50	200
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	6.3 J	0.20 J	3.9 J	460	<1.0	0.098 J	0.94 J	2.3 J	1.6 J	<0.005	8,100	0.074 J	<50	200
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013						98 J	0.12 J	3.7 J	420	<1.0	0.50 J	1.3 J	1.6 J	1.6 J		7,700	0.34 J	<50	200
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	8.4 J	0.13 J	3.6 J	440	<1.0	0.49 J	2.0 J	1.8 J	1.5 J	0.0015 J	7,500	<3.0	<50	210
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014						1,200	0.11 J	4.7 J	370	<1.0	2.1	2.7 J	2.4 J	4.7		8,000	4.7	<50	400
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	10 J	<2.0	3.3 J	350	<1.0	<1.0	0.34 J	1.3 J	0.50 J	<5.0	4,900	<3.0	<50	330
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015						440	<2.0	2.0 J	330	<1.0	0.73 J	3.2 J	1.2 J	2.7 J		7,100	1.9 J	<50	210
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	13 J	0.18 J	1.3 J	330	<1.0	<1.0	0.47 J	1.3 J	1.5 J	<5.0	5,900	<3.0	<50	200
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015						540	NS	NS	NS	NS	NS	NS	NS	NS		3,300	NS	92,000	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	15 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,300	NS	91,000	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016						140	NS	NS	NS	NS	NS	NS	NS	NS		6,500	NS	NS	200
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	3.2 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	5,900	NS	NS	200
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016						50 J	NS	NS	NS	NS	NS	NS	NS	NS		7,200	NS	NS	2,800
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	8.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	6,900	NS	NS	290
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017						23	NS	NS	NS	NS	NS	NS	NS	NS		7,000	NS	NS	310

Table 2
Summary Of Ground Water Sample Results

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GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<0.2	**11 J**	<5.0	<0.20	<2.0	**1.2 J**	**40 J**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.4 J**	**44 J**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.2 J**	**39 J**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.2 J**	**22 J**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.3 J**	**6.6 J**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014	<0.2	**18 J**	**0.84 J**	<0.20	**0.22 J**	**1.2 J**	**15 J**
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<0.2	**16 J**	<5.0	<0.20	<2.0	**1.0 J**	**8.2 J**
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	<0.2	**8.4 J**	<5.0	**0.022 J**	<2.0	**2.1 J**	**6.3 J**
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.4 J**	**19 J**
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.2 J**	**4.4 J**
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.0 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	<0.2	**6.8 J**	<5.0	<0.20	<2.0	**1.3 J**	**4.0 J**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<0.2	**6.6 J**	<5.0	<0.20	<2.0	**0.91 J**	**3.0 J**
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.5 J**	**3.2 J**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.4 J**
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	<0.2	**19 J**	<5.0	<0.20	<2.0	**5.2**	**18 J**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<0.2	**10 J**	<5.0	<0.20	<2.0	**0.85 J**	**5.8 J**
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**2.0 J**	**11 J**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.74 J**	<50
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
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GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Van Buren Landfill Site
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GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
							Metals															
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS	**320**
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018						**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**			**1.8**
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	**8.80**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,400**			**440**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,DW}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<25	<1.0	<1.0	<50	<50	**0.36 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016																			
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<25	<1.0	<1.0	<50	**4.3 J**	**8.6**	<1.0	<5.0	**25**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.5**	<1.0	<5.0	**24**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**23**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**13**	<1.0	<5.0	**36**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**12**	<1.0	<5.0	**35**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**24**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<25	<1.0	<1.0	<50	<50	**7.8**	<1.0	<5.0	**38**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**28**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**27**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<25	<1.0	**0.48 J**	<50	<50	**12**	<1.0	<5.0	**44**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0	<3.0
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.91 J**	**0.92 J**	**1.7 J**	<1.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016																			
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<10	<10	<5.0	<10	<10	**0.86 J**	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**1.0 J**	<5.0	**1.7 J**	<1.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	**0.28 J**	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.1 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.8 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																		
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.6 J**	**0.2 J**	**44**	**1,700**	<1.0	<1.0	**1.9 J**	**2.4 J**	**0.71 J**	<0.005	**28,000**	**0.053 J**	<50	**760**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013						**13 J**	**0.13 J**	**52**	**1,300**	<1.0	**0.22 J**	**1.0 J**	**1.4 J**	**2.1 J**		**31,000**	**0.17 J**	<50	**440**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**52**	**1,300**	<1.0	**0.24 J**	**0.91 J**	**2.2 J**	**1.7 J**	<0.005	**30,000**	**0.068 J**	<50	**430**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013						**43 J**	**0.16 J**	**59**	**2,100**	<1.0	<1.0	**2.0 J**	**1.7 J**	<4.0		**30,000**	**0.30 J**	<50	**400**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.17 J**	**60**	**2,200**	<1.0	<1.0	**1.0 J**	**1.7 J**	<4.0	<0.005	**29,000**	**0.083 J**	<50	**340**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014						**42 J**	**0.18 J**	**59**	**1,800**	<1.0	**0.050 J**	**1.0 J**	**1.2 J**	<4.0		**31,000**	<3.0	<50	**330**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.25 J**	**62**	**1,900**	<1.0	<1.0	**1.0 J**	**1.4 J**	<4.0	<5.0	**30,000**	<3.0	<50	**300**
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014						**190**	**0.19 J**	**51**	**1,700**	<1.0	<1.0	**1.0 J**	**2.2 J**	**2.6 J**		**34,000**	**0.99 J**	<50	**600**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.15 J**	**47**	**1,900**	<1.0	<1.0	**0.70 J**	**2.2 J**	**1.4 J**	**2.1 J**	**34,000**	**0.21 J**	<50	**570**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015						**260**	**0.19 J**	**49**	**1,700**	<1.0	**0.094 J**	**1.4 J**	**2.0 J**	**3.9 J**		**34,000**	**1.1 J**	<50	**390**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.0 J**	**0.34 J**	**46**	**1,800**	<1.0	<1.0	**0.83 J**	**1.9 J**	**1.4 J**	<5.0	**33,000**	<3.0	<50	**370**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015						**510**	NS	NS	NS	NS	NS	NS	NS	NS		**33,000**	NS	**120,000**	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32,000**	NS	**130,000**	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS	**500**
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33,000**	NS	NS	**540**
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016						**270**	NS	NS	NS	NS	NS	NS	NS	NS		**29,000**	NS	NS	**260**
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**240**
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017						<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	**150,000**	**240**
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	**140,000**	**230**
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017						**55**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**220**
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**220**
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018						**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30,000**	NS	NS	**230**
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018						**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**98**
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**230**
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS	**270**
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**260**
MW-10	W-R2330009-050113-MJF-003	5/1/2013	**1.1 J**	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.19 J**	**7.4**	**1,800**	<1.0	<1.0	**1.8 J**	**2.6 J**	<4.0	<0.005	**17,000**	**0.054 J**	<50	**350**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013						**26 J**	**0.27 J**	**6.5**	**1,700**	<1.0	**0.29 J**	**2.2 J**	**3.1 J**	**3.4 J**		**17,000**	**7.3**	<50	**600**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.1 J**	**0.31 J**	**6.7**	**1,800**	<1.0	**0.22 J**	**2.0 J**	**3.5 J**	**2.7 J**	<0.005	**17,000**	**2.4 J**	<50	**600**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013						**25 J**	**0.26 J**	**6.7**	**1,700**	<1.0	**0.40 J**	**2.0 J**	**3.1 J**	3.4 J		**17,000**	**7.2**	<50	**580**
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.25 J**	**6.4**	**1,700**	<1.0	**0.27 J**	**2.0 J**	**3.1 J**	**2.4 J**	<0.005	**17,000**	**2.7 J**	<50	**600**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013						**26 J**	**0.24 J**	**10**	**1,900**	<1.0	**1.7 J**	**3.7 J**	**3.3 J**	**1.8 J**		**2,300**	**2.8 J**	<50	**460**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.23 J**	**9.7 J**	**1,900**	<1.0	**1.4 J**	**2.7 J**	**3.8 J**	**1.1 J**	**0.0019 J**	**2,100**	**0.16 J**	<50	**480**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013						**26 J**	**0.23 J**	**10**	**1,900**	<1.0	**1.7 J**	**2.9 J**	**3.4 J**	**1.4 J**		**2,300**	**2.8 J**	<50	**450**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.8 J**	**0.20 J**	**9.2 J**	**1,900**	<1.0	**1.7 J**	**2.6 J**	**3.4 J**	**1.1 J**	**0.0023 J**	**2,100**	**0.18 J**	<50	**470**
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014						**32 J**	**0.20 J**	**6.6 J**	**1,700**	<1.0	<1.0	**1.6 J**	**3.0 J**	**1.9 J**		**24,000**	**1.6 J**	<50	**550**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**2.0 J**	**0.22 J**	**6.5 J**	**1,700**	<1.0	<1.0	**0.79 J**	**2.5 J**	**3.3 J**	**2.4 J**	**24,000**	**0.14 J**	<50	**540**
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014						**45 J**	**0.23 J**	**7.1 J**	**1,800**	<1.0	<1.0	**1.6 J**	**2.9 J**	**1.5 J**		**25,000**	**1.7 J**	<50	**550**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**6.8 J**	**1,700**	<1.0	<1.0	<10	**3.0 J**	**1.1 J**	**4.1 J**	**23,000**	**0.14 J**	<50	**530**
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014						**21 J**	**0.23 J**	**7.1**	**2,100**	<1.0	**0.034 J**	**2.3 J**	**2.2 J**	<4.0		**22,000**	**2.2 J**	<50	**420**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.2 J**	**0.22 J**	**8.4**	**2,100**	<1.0	<1.0	**2.3 J**	**2.4 J**	<4.0	<5.0	**23,000**	<3.0	<50	**430**
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015						**24 J**	**0.29 J**	**7.3**	**2,500**	<1.0	**0.028 J**	**2.5 J**	**2.3 J**	**0.51 J**		**23,000**	**2.5 J**	<50	**450**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.26 J**	**7.0**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.40 J**	<5.0	**22,000**	<3.0	<50	**420**
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015						**26 J**	**0.21 J**	**6.6**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.65 J**		**21,000**	**2.1 J**	<50	**420**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.24 J**	**7.2**	**2,400**	<1.0	<1.0	**2.6 J**	**2.7 J**	**0.27 J**	<5.0	**23,000**	**0.36 J**	<50	**430**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015						**31 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**160,000**	NS
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	NS	**420**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DT}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**7.5 J**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.6 J**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.4 J**	**2.9 J**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013	<0.2	**6.9 J**	<5.0	<0.20	**0.14 J**	**1.5 J**	**3.7 J**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.5 J**	**2.5 J**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014	<0.2	**3.2 J**	<5.0	**0.024 J**	<2.0	**1.9 J**	**3.7 J**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.1 J**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**11 J**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**3.9 J**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<0.2	**4.9 J**	**0.66 J**	<0.20	<2.0	**2.3 J**	**2.4 J**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.2 J**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<0.2	**7.4 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**8.5 J**
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<0.2	**7.4 J**	**0.79 J**	<0.20	<2.0	**2.2 J**	**4.9 J**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**3.0 J**	**7.0 J**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.4 J**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.0 J**	**3.8 J**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.0 J**
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**2.1 J**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<0.2	**9.8 J**	<5.0	<0.20	**0.24 J**	**1.8 J**	**3.0 J**
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<0.2	**7.9 J**	**0.84 J**	<0.20	<2.0	**2.3 J**	**2.1 J**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<0.2	**8.0 J**	**0.83 J**	<0.20	<2.0	**1.9 J**	<50
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	**3.7 J**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	<50
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	<0.2	**3.9 J**	<5.0	<0.20	<2.0	**2.8 J**	**3.4 J**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**2.3 J**	<50
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 J**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<0.2	**3.7 J**	<5.0	**0.021 J**	<2.0	**2.7 J**	**3.3 J**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<25	<1.0	<1.0	<50	**5.5 J**	**7.4**	<1.0	<5.0	**24**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<25	<1.0	**.41 J**	<50	**1.8 J**	**11.0**	<1.0	<5.0	**41**	<5.0	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<25	<1.0	<1.0	<50	**7.4 J**	**7.2**	<1.0	<5.0	**32**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<25	<1.0	<1.0	<50	**3.5 J**	**9.8**	<1.0	<5.0	**34**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0	<3.0
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018																			
MW-10	W-R2330024-042418-DMS-016	4/24/2018	<25	<1.0	<1.0	<50	**3.5 J**	**6.4**	<1.0	<5.0	**30**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	<0.52	<0.32	<0.35	<0.52	4.3 J	4.4	<0.49	<0.49	29	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016																			
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018																			
MW-10	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.92 J**	<5.0	**1.7 J**	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016																			
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.2 J**	<1.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	**0.24 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																		
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS	**470**
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016						**32 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**420**
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**430**
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	**160,000**	**430**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	**150,000**	**410**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**470**
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**470**
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018						**75**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**
MW-10	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018						**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**550**
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**570**
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**500**
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**500**
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.6 J**	**0.13 J**	<5.0	**26**	<1.0	<1.0	**0.69 J**	**0.41 J**	**0.76 J**	<0.005	**13 J**	**0.0079 J**	<50	**7.4 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013						**22 J**	**0.079 J**	<5.0	**57 J**	<1.0	<1.0	**0.49 J**	**0.51 J**	**2.7 J**		**270**	<3.0	<50	**58**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.12 J**	<5.0	**61 J**	<1.0	<1.0	**0.53 J**	**0.93 J**	**2.0 J**	<0.005	**270**	<3.0	<50	**61**
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013						**730**	**0.66 J**	**1.0 J**	**38 J**	<1.0	<1.0	**3.1 J**	**1.2 J**	**3.0 J**		**1,600**	**1.3 J**	<50	**75**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**22 J**	**0.30 J**	**0.65 J**	**47 J**	<1.0	<1.0	**0.40 J**	**0.91 J**	**0.82 J**	<0.005	**150 J**	<3.0	<50	**60**
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014						**180**	**0.12 J**	<5.0	**38 J**	<1.0	<1.0	**0.55 J**	**0.74 J**	**1.5 J**		**380**	**0.37 J**	<50	**52**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.096 J**	<5.0	**47 J**	<1.0	<1.0	<10	**0.80 J**	**0.96 J**	<0.005	**110 J**	<3.0	<50	**54**
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014						**26 J**	**0.10 J**	**1.2 J**	**72 J**	<1.0	**0.047 J**	<10	**0.57 J**	**0.76 J**		**500**	<3.0	<50	**68**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	**2.7 J**	**0.15 J**	**1.1 J**	**75 J**	<1.0	<1.0	<10	**1.1 J**	**1.4 J**	NS	**500**	<3.0	<50	**68**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014						**47 J**	<2.0	<5.0	**58 J**	<1.0	**0.087 J**	**0.23 J**	**0.67 J**	**4.3**		**220**	<3.0	<50	**110**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	<2.0	**0.65 J**	**69 J**	<1.0	0.052 J	<10	**0.67 J**	**1.1 J**	<5.0	**320**	<3.0	<50	**96**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015						**65**	<2.0	<5.0	**20 J**	<1.0	**0.39 J**	**2.5 J**	**0.30 J**	**1.2 J**		**110 J**	<3.0	<50	**130**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.17 J**	<5.0	**20 J**	<1.0	**0.29 J**	**0.16 J**	**0.47 J**	**0.78 J**	<5.0	<200	<3.0	<50	**4.8 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015						**17 J**	NS	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**29,000**	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	**29,000**	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016						**390**	NS	NS	NS	NS	NS	NS	NS	NS		**700**	NS	NS	**310**
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS	**19 J**
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016						**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**190**
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**140**
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017						**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	**29,000**	**95**
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	**25,000**	**17 J**
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017						**69**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**180**
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS	**160**
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018						**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**85**
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS	**12**
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018						**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2000**	NS	NS	**350**
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	**83**
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019						**660**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**420**
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	**<2.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<15**	NS	NS	**8.4**
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.22 J**	**1.4 J**	**1,100**	<1.0	<1.0	**1.9 J**	**4.0 J**	<4.0	<0.005	**15,000**	**0.17 J**	<50	**1,500**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013						**170**	**0.15 J**	**1.2 J**	**1,400**	<1.0	**0.27 J**	**1.2 J**	**1.4 J**	**6.1**		**18,000**	**0.36 J**	<50	**470**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.26 J**	**0.93 J**	**1,500**	<1.0	**0.30 J**	**0.73 J**	**2.4 J**	**3.6 J**	<0.005	**17,000**	**0.062 J**	<50	**420**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013						**89**	**0.16 J**	**0.79 J**	**1,600**	**0.13 J**	**0.33 J**	**1.0 J**	**1.5 J**	**1.5 J**		**12,000**	**0.26 J**	<50	**210**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.16 J**	**0.85 J**	**1,500**	<1.0	**0.68 J**	**0.99 J**	**1.9 J**	**1.3 J**	<0.005	**12,000**	<3.0	<50	**190**
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014						**61**	**0.18 J**	**0.82 J**	**1,200**	<1.0	<1.0	**0.53 J**	**1.9 J**	**3.6 J**		**8,800**	**0.24 J**	<50	**750**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.19 J**	<5.0	**1,300**	<1.0	<1.0	**0.43 J**	**1.5 J**	**4.6**	**2.2 J**	**9,100**	**0.22 J**	<50	**660**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<0.2	**1.2 J**	**1.7 J**	<0.20	<2.0	<4.0	**2.0 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	<0.2	**2.2 J**	**0.74 J**	<0.20	<2.0	**0.24 J**	**2.5 J**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<0.2	**2.2 J**	**1.1 J**	<0.20	<2.0	**0.23 J**	**2.2 J**
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	<0.2	**4.8 J**	**1.1 J**	<0.20	**0.24 J**	**2.1 J**	**8.6 J**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<0.2	**3.2 J**	**0.83 J**	<0.20	<2.0	<4.0	**3.1 J**
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	<0.2	**3.4 J**	**1.3 J**	<0.20	<2.0	**0.34 J**	**0.91 J**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<0.2	**3.3 J**	**0.83 J**	<0.20	**0.098 J**	**0.28 J**	<50.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014	**0.062 J**	**2.5 J**	<5.0	<0.20	<2.0	**0.28 J**	**2.8 J**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	**0.064 J**	**2.6 J**	<5.0	<0.20	<2.0	**0.20 J**	**3.2 J**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.48 J**	**7.3 J**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<0.2	**2.9 J**	**0.93 J**	<0.20	<2.0	<4.0	**3.5 J**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015	<0.2	**3.5 J**	**0.92 J**	<0.20	<2.0	<4.0	<50
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<0.2	**1.7 J**	**1.0 J**	<0.20	<2.0	<4.0	<50
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**8.8 J**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.7 J**	**4.5 J**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<0.2	**4.2 J**	<5.0	<0.20	<2.0	**1.2 J**	**2.7 J**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013	<0.2	**4.5 J**	<5.0	<0.20	**0.12 J**	**1.3 J**	**3.4 J**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.97 J**	**2.2 J**
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**1.1 J**	**4.1 J**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**5.8 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nrf}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					Metals
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014						**1,200**	**0.31 J**	**2.7 J**	**1,600**	<1.0	**0.090 J**	**2.6 J**	**1.3 J**	**3.9 J**		**14,000**	**1.3 J**	<50	**310**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.22 J**	<5.0	**1,600**	<1.0	<1.0	**0.55 J**	**0.86 J**	<4.0	<5.0	**12,000**	<3.0	<50	**340**
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015						**1,000**	**0.31 J**	**1.4 J**	**1,800**	<1.0	<1.0	**2.2 J**	**1.9 J**	**7.6**		**14,000**	**2.2 J**	<50	**170**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**5.1 J**	**0.58 J**	<5.0	**1,500**	<1.0	<1.0	**0.58 J**	**1.4 J**	**1.3 J**	<5.0	**12,000**	<3.0	<50	**140**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015						**340**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**130,000**	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015						**380**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016						**60**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**140**
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**160**
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**270**
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	**27 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**270**
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017						**36 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	**66,000**	**740**
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,000**	NS	**65,000**	**740**
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017						**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**250**
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017						**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**280**
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**260**
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**400**
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**420**
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018						**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**240**
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**230**
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019						**610**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**690**
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**700**
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014						**1,400**	**0.11 J**	**5.6**	**160**	<1.0	<1.0	**2.4 J**	**0.98 J**	**2.8 J**		**4,200**	**2.2 J**	<50	**210**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.063 J**	**4.5 J**	**150**	<1.0	<1.0	<10	**0.23 J**	<4.0	<0.005	**2,100**	**0.052 J**	<50	**180**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014						**980**	**0.063 J**	**5.8**	**150**	<1.0	**0.056 J**	**1.5 J**	**0.80 J**	**2.2 J**		**3,600**	**1.8 J**	<50	**240**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	**21 J**	**0.093 J**	**5.1**	**150**	<1.0	<1.0	<10	**0.65 J**	**0.96 J**	NS	**2,500**	<3.0	<50	**220**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014						**1,200**	**0.071 J**	**6.0**	**150**	<1.0	<1.0	**2.2 J**	**0.85 J**	**3.2 J**		**3,800**	**1.8 J**	<50	**240**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	**19 J**	**0.042 J**	**5.3**	**140**	<1.0	<1.0	**0.50 J**	**0.50 J**	**0.94 J**	NS	**2,500**	<3.0	<50	**230**
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014						**700**	<2.0	**6.3**	**190**	<1.0	**0.075 J**	**1.6 J**	**0.61 J**	**1.7 J**		**4,100**	**1.5 J**	<50	**300**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	**5.8**	**190**	<1.0	<1.0	<10	**0.25 J**	**0.23 J**	<5.0	**3,000**	<3.0	<50	**280**
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015						**2,000**	<2.0	**5.1**	**260**	<1.0	**0.45 J**	**2.9 J**	**1.4 J**	**4.2**		**5,300**	**3.4**	<50	**330**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**9.8 J**	<2.0	**2.7 J**	**240**	<1.0	**0.050 J**	**0.14 J**	**0.62 J**	**1.0 J**	<5.0	**2,300**	<3.0	<50	**320**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015						**990**	NS	NS	NS	NS	NS	NS	NS	NS		**4,600**	NS	**22,000**	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	**21,000**	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016						**310**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS	**400**
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**380**
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**3,900**
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**410**
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**23,000**	**420**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**23,000**	**430**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017						**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**440**
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**440**
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**510**
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**500**
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018						**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**450**
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**440**
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**450**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	<0.2	**3.5 J**	<5.0	**0.040 J**	<2.0	**4.5**	**8.1 J**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<0.2	**1.7 J**	<5.0	**0.064 J**	<2.0	**1.0 J**	<50
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**2.9 J**	**13 J**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.93 J**	**4.5 J**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**4.3**	**7.9 J**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<0.2	**1.2 J**	<5.0	<0.20	<2.0	**0.65 J**	**1.7 J**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014	**0.064 J**	**4.4 J**	<5.0	<0.20	<2.0	**2.8 J**	**7.9 J**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	**0.064 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.36 J**	**3.1 J**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014	**0.063 J**	**4.7 J**	<5.0	<0.20	<2.0	**2.9 J**	**7.7 J**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	**0.058 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.32 J**	**2.9 J**
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014	<0.2	**2.2 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<0.2	**0.74 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015	<0.2	**6.4 J**	<5.0	<0.20	<2.0	**3.7 J**	**11 J**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.2 J**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.42 J**	<3.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.78 J**	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																		
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**450**
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014						**5,400**	**0.35 J**	**10**	**400**	**0.23 J**	**0.28 J**	**8.8 J**	**5.6 J**	**11**		**13,000**	**6.9**	<50	**600**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**56**	**0.24 J**	**5.1**	**370**	**0.097 J**	**0.16 J**	**0.30 J**	**1.3 J**	<4.0	<0.005	**2,000**	**0.20 J**	<50	**250**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014						**25,000**	**1.0 J**	**46**	**730**	**1.2**	**1.4**	**48**	**34**	**74**		**72,000**	**52**	<50	**3,800**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**45 J**	**0.18 J**	**11**	**550**	<1.0	**0.088 J**	<10	**0.59 J**	**0.21 J**	<5.0	**3,600**	<3.0	<50	**210**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015						**28,000**	**1.3 J**	**51**	**740**	**0.77 J**	**1.4**	**35**	**25**	**60**		**60,000**	**45**	<50	**2700**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	**6.7**	**450**	<1.0	**0.041 J**	**0.15 J**	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50	**180**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015						**2,200**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	**30,000**	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016						**2,100**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS	**220**
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**140**
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016						**96**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS	**180**
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**180**
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017						**2,300**	NS	NS	NS	NS	NS	NS	NS	NS		**7,900**	NS	**44,000**	**420**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	**18,000**	**150**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017						**5,100**	NS	NS	NS	NS	NS	NS	NS	NS		**17,000**	NS	NS	**880**
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**160**
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018						**7,500**	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS	**1700**
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**130**
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018						**580**	NS	NS	NS	NS	NS	NS	NS	NS		**6,200**	NS	NS	**590**
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**230**
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**3,800**	NS	NS	**250**
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**190**
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014						**1,900**	**0.089 J**	**6.2**	**350**	<1.0	**0.062 J**	**3.5 J**	**1.5 J**	**3.4 J**		**5,300**	**1.6 J**	<50	**350**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**120**	**0.12 J**	**4.5 J**	**320**	<1.0	<1.0	**0.53 J**	**1.1 J**	0.87 J	**1.2 J**	**2,400**	**0.088 J**	<50	**300**
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014						**7,900**	**0.49 J**	**14**	**380**	**0.34 J**	**0.27 J**	**16**	**6.7 J**	**17**		**16,000**	**9.7**	<50	**560**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**74**	**0.15 J**	**6.3**	**330**	<1.0	**0.054 J**	**0.30 J**	**0.93 J**	**0.18 J**	<5.0	**2,000**	<3.0	<50	**350**
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015						**1,600**	**0.12 J**	**11**	**510**	<1.0	<1.0	**2.8 J**	**1.9 J**	**4.1**		**6,600**	**1.7 J**	<50	**520**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.14 J**	**5 J**	**540**	<1.0	<1.0	**0.3 J**	**0.91 J**	**1.8 J**	<5.0	**3,500**	<3.0	<50	**460**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015						**4,100**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**38,000**	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**34,000**	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	**25 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**420**
MW-19[A]	DUP 1	4/19/2016						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**420**
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**2,000**	NS	NS	**360**
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**350**
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017						**820**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	**27,000**	**360**
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	**28,000**	**370**
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017						**320**	NS	NS	NS	NS	NS	NS	NS	NS		**3,100**	NS	NS	**520**
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**520**
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018						**740**	NS	NS	NS	NS	NS	NS	NS	NS		**3,200**	NS	NS	**390**
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**380**
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018						**1,600**	NS	NS	NS	NS	NS	NS	NS	NS		**4,000**	NS	NS	**390**
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**350**
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**420**
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**400**
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014						**1,800**	**0.15 J**	**9.5**	**340**	<1.0	**0.061 J**	**3.8 J**	**1.6 J**	**5.1**		**9,600**	**2.7 J**	<50	**280**
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.065 J**	**5.6**	**330**	<1.0	<1.0	**0.39 J**	**0.71 J**	1.1 J	<0.005	**4,900**	<3.0	<50	**200**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DT}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	<0.2	**15 J**	**1.6 J**	**0.047 J**	**0.18 J**	**16**	**27 J**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<0.2	**3.1 J**	<5.0	<0.20	**0.21 J**	**0.61 J**	**2.9 J**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<0.2	**5.3 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**6.3**	**9.2 J**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.5 J**
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	<0.2	**21**	**1.7 J**	**0.080 J**	<2.0	**24**	**53**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<0.2	**1.8 J**	<5.0	<0.20	<2.0	**0.48 J**	**3.9 J**
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	<0.2	**9.4 J**	**0.82 J**	<0.20	<2.0	**4.2**	**11 J**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.53 J**	**3.7 J**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**6.4**	**11 J**
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.57 J**	**1.1 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.87 J**	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**1.5 J**	<10	<4.0	<5.0	**1.2 J**	<5.0	**0.88 J**	<1.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014						**330**	<2.0	**8.8**	**290**	<1.0	<1.0	**0.90 J**	**0.49 J**	**1.2 J**		**4,200**	**0.69 J**	<50	**160**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**100**	<2.0	**7.7**	**300**	<1.0	<1.0	**0.39 J**	**0.66 J**	**0.32 J**	<5.0	**3,600**	<3.0	<50	**150**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015						**1,600**	**0.14 J**	**7.5**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.9**		**7,000**	**2.8 J**	<50	**210**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**64**	**0.13 J**	**5.8**	**260**	<1.0	<1.0	**0.36 J**	**0.73 J**	**0.98 J**	<5.0	**4,200**	<3.0	<50	**170**
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015						**1,600**	**0.13 J**	**7.6**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.7**		**7,100**	**2.8 J**	<50	**210**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**43 J**	<2.0	**6.1**	**250**	<1.0	<1.0	**0.28 J**	**0.61 J**	**0.93 J**	<5.0	**4,900**	<3.0	<50	**170**
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015						**2,600**	NS	NS	NS	NS	NS	NS	NS	NS		**10,000**	NS	**56,000**	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**55,000**	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016						**46 J**	NS	NS	NS	NS	NS	NS	NS	NS		**3,500**	NS	NS	**140**
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**150**
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**170**
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**160**
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	**46,000**	**180**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	**50,000**	**180**
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	**46,000**	**180**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**50,000**	**190**
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017						**960**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**160**
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**140**
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018						**680**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**180**
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**160**
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018						**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**170**
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**160**
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019						**1,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**250**
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**200**
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014						**1,400**	**0.16 J**	**1.9 J**	**38 J**	<1.0	<1.0	**2.4 J**	**1.7 J**	**4.1**		**2,400**	**1.4 J**	<50	**60**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**48 J**	**0.16 J**	<5.0	**31 J**	<1.0	<1.0	<10	**0.91 J**	**1.2 J**	<0.005	**56 J**	<3.0	<50	**9.1 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014						**480**	**0.15 J**	**1.1 J**	**81 J**	<1.0	**0.076 J**	**1.1 J**	**0.89 J**	**2.0 J**		**850**	**0.72 J**	<50	**52**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**0.70 J**	**72 J**	<1.0	**0.061 J**	**0.22 J**	**0.70 J**	**0.98 J**	<5.0	**42 J**	<3.0	<50	**37 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015						**3,000**	**0.23 J**	**2.2 J**	**73 J**	<1.0	**0.21 J**	**5.1 J**	**2.5 J**	**6.2**		**4,100**	**2.9 J**	<50	**100**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.19 J**	<5.0	**62 J**	<1.0	**0.078 J**	**0.14 J**	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50	**25 J**
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015						**34 J**	NS	NS	NS	NS	NS	NS	NS	NS		**59 J**	NS	**21,000**	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**	NS
MW-21[A] (DUP)	DUP 1	11/18/2015						**27 J**	NS	NS	NS	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS	**4.6 J**
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS	**3.8 J**
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016						**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS	**35 J**
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS	**36 J**
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	**19,000**	**33 J**
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	**20,000**	**24 J**
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS		**46**
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS		**43**
MW-21	W-R2330024-042418-JPM-013	4/24/2018						**270**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**150**
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**120**
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014						**8,100**	**0.78 J**	**14**	**540**	<1.0	**0.56 J**	**14**	**9.5 J**	**31**		**21,000**	**19**	<50	**730**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**4.3 J**	**440**	<1.0	<1.0	<10	**2.2 J**	**0.64 J**	**1.3 J**	**3,100**	**0.079 J**	<50	**360**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014						**200**	**0.18 J**	**16**	**1,300**	<1.0	**0.11 J**	**1.1 J**	**1.9 J**	**1.3 J**		**11,000**	**0.62 J**	<50	**250**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.22 J**	**15**	**1,300**	<1.0	<1.0	**0.70 J**	**1.7 J**	<4.0	<5.0	**11,000**	<3.0	<50	**240**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014						**160**	<2.0	**16**	**1,300**	<1.0	**0.095 J**	**0.80 J**	**1.7 J**	**1.1 J**		**11,000**	<3.0	<50	**270**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DT}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<0.2	**1.4 J**	<5.0	<0.20	<2.0	**0.68 J**	**4.5 J**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**4.0 J**	**12 J**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.52 J**	<50
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**3.9 J**	**12 J**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.55 J**	<50
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	<0.2	**5.5 J**	**0.68 J**	<0.20	<2.0	**3.8 J**	**9.9 J**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.32 J**	**1.9 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.8 J**	**8.2 J**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	**4.5 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	<0.2	**7.7 J**	<5.0	**0.038 J**	<2.0	**8.5**	**18 J**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	<0.2	**23**	**2.7 J**	<0.20	<2.0	**24**	**81**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<0.2	**3.2 J**	<5.0	<0.20	<2.0	**0.64 J**	**2.2 J**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**6.8 J**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<0.2	**3.7 J**	<5.0	<0.20	<2.0	<4.0	**23 J**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.75 J**	**5.6 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018																			
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<25	<1.0	<1.0	<50	<50	**3.7**	<1.0	<5.0	**40**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<25	<1.0	<1.0	<50	<50	**5.4**	<1.0	<5.0	**89**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	**45**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<25	<1.0	<1.0	<50	<50	**4.1**	<1.0	<5.0	**72**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<25	<1.0	<1.0	<50	<50	**2.5**	<1.0	<5.0	**36**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<25	<1.0	<1.0	<50	**3.2 J**	**1.2**	<1.0	<5.0	**18**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	<25	<1.0	<1.0	<50	**2.2 J**	**2.7**	<1.0	<5.0	**43**	<5.0	<1.0	**0.60 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	**65**	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	<25	<1.0	<1.0	<50	<50	**2.1**	<1.0	<5.0	**42**	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	<25	<1.0	<1.0	<50	**1.6 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	<25	<1.0	<1.0	<50	**2.8 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018																			
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.85 J**	<1.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.91 J**	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0**	<5.0	**1.6 J**	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
																				Metals
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.11 J**	**16**	**1,300**	<1.0	<1.0	**0.61 J**	**1.7 J**	**0.37 J**	**17**	**11,000**	<3.0	<50	**260**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015						**340**	**0.17 J**	**14**	**1,300**	<1.0	<1.0	**1.3 J**	**2.2 J**	**4.0**		**13,000**	**2.3 J**	<50	**270**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.23 J**	**13**	**1,400**	<1.0	<1.0	**0.54 J**	**2.1 J**	**1.8 J**	**6.0**	**12,000**	<3.0	<50	**250**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015						**95**	NS	NS	NS	NS	NS	NS	NS	NS		**7,000**	NS	**120,000**	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	**120,000**	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016						**37 J**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS	**88**
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	**41 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**82**
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016						**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017						**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	**93,000**	**140**
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**90,000**	**130**
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017						**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**72**
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**67**
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**110**
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**110**
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014						**560**	**0.15 J**	**13**	**610**	<1.0	<1.0	**1.7 J**	**2.2 J**	**2.1 J**		**13,000**	**1.2 J**	<50	**180**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.7 J**	**0.089 J**	**12**	**560**	<1.0	<1.0	**0.76 J**	**1.9 J**	<4.0	<0.005	**12,000**	**0.067 J**	<50	**160**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014						**590**	**0.11 J**	**12**	**580**	<1.0	<1.0	**1.7 J**	**2.1 J**	**2.2 J**		**13,000**	**1.3 J**	<50	**180**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.5 J**	**0.076 J**	**12**	**550**	<1.0	<1.0	**0.70 J**	**1.8 J**	<4.0	<0.005	**11,000**	<3.0	<50	**150**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014						**6,700**	**1.1 J**	**46**	**1,300**	**0.31 J**	**0.68 J**	**18**	**9.3 J**	**37**		**35,000**	**30**	<50	**310**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**21 J**	**0.20 J**	**26**	**1,100**	<1.0	**0.037 J**	**1.3 J**	**2.4 J**	**0.18 J**	<5.0	**18,000**	<3.0	<50	**78**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015						**650**	**0.20 J**	**17**	**940**	<1.0	<1.0	**2.2 J**	**3.1 J**	**3.7 J**		**17,000**	**2.6 J**	<50	**120**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.21 J**	**16**	**860**	<1.0	<1.0	**0.96 J**	**2.8 J**	**2.3 J**	<5.0	**16,000**	**0.82 J**	<50	**99**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015						**180**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**130,000**	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	**130,000**	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**89**
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**99**
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016						**570**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**100**
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**92**
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	**110,000**	**85**
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	**110,000**	**80**
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017						**65**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**90**
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**91**
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**79**
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	29	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**73**
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014						**310**	<2.0	**5.7**	**170**	<1.0	<1.0	**0.57 J**	**0.50 J**	**1.6 J**		**5,300**	**0.38 J**	<50	**640**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.074 J**	**5.2**	**160**	<1.0	<1.0	<10	**0.76 J**	**0.75 J**	<0.005	**4,700**	<3.0	<50	**620**
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014						**12 J**	<2.0	**4.6 J**	**130**	<1.0	**0.051 J**	**0.13 J**	**0.25 J**	<4.0		**2,500**	<3.0	<50	**690**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**4.9 J**	**130**	<1.0	<1.0	<10	**0.19 J**	<4.0	<5.0	**2,100**	<3.0	<50	**670**
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015						**84**	<2.0	**7.4**	**140**	<1.0	**0.24 J**	**0.68 J**	**0.56 J**	**1.8 J**		**5,900**	**0.47 J**	<50	**740**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.19 J**	**3.2 J**	**130**	<1.0	**0.066 J**	<10	**0.57 J**	**1.3 J**	<5.0	**2,600**	**0.36 J**	<50	**700**
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015						**260**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**48,000**	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**47,000**	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016						**170**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**840**
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**920**
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016						**730**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**820**
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**760**
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017						**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	**50,000**	**990**
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**49,000**	**970**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<0.2	**3.8 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**1.5 J**	**8.6 J**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**0.71 J**	**5.9 J**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	<0.2	**4.4 J**	**0.92 J**	<0.20	<2.0	**2.5 J**	**7.2 J**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**1.1 J**	**2.2 J**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<0.2	**4.4 J**	**0.72 J**	<0.20	<2.0	**2.6 J**	**7.3 J**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<0.2	**3.1 J**	<5.0	<0.20	<2.0	**0.84 J**	**1.9 J**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014	<0.2	**25**	**2.8 J**	**0.059 J**	<2.0	**29**	**100**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.5 J**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	<0.2	**7.4 J**	**0.76 J**	**0.023 J**	<2.0	**3.3 J**	**9.2 J**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<0.2	**6.3 J**	<5.0	**0.020 J**	<2.0	**1.2 J**	**4.1 J**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	<0.2	**3.8 J**	**0.69 J**	<0.20	<2.0	**0.69 J**	**4.9 J**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	**1.7 J**
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	<0.2	**1.7 J**	<5.0	<0.20	<2.0	<4.0	**4.7 J**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<0.2	**0.93 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	<0.2	**3.1 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<0.2	**2.8 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.80 J**	<1.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<10	<10	**0.40 J**	<10	<10	<5.0	<10	<5.0	**0.30 J**	<5.0	<10	<5.0	<10	<10	**0.38 J**	<5.0	<5.0	<5.0	<1.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
																	Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017						**27**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**700**
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**710**
MW-24	W-R2330024-042418-DMS-009	4/24/2018						**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**1000**
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**960**
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014						**2,600**	**0.24 J**	**1.9 J**	**83 J**	<1.0	<1.0	**3.8 J**	**1.5 J**	**7.4**		**3,800**	**2.5 J**	<50	**190**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.21 J**	**0.63 J**	**68 J**	<1.0	<1.0	<10	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50	**150**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014						**400**	**0.18 J**	**0.85 J**	**72 J**	<1.0	**0.11 J**	**1.3 J**	**0.53 J**	**3.2 J**		**570**	**0.59 J**	<50	**340**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.15 J**	<5.0	**66 J**	<1.0	**0.071 J**	<10	**0.33 J**	**2.9 J**	<5.0	**16 J**	<3.0	<50	**250**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015						**450**	**0.22 J**	**0.88 J**	**72 J**	<1.0	**0.060 J**	**0.84 J**	**0.77 J**	**4.2**		**620**	**0.57 J**	<50	**310**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	**0.13 J**	**0.71 J**	<2.0	<5.0	<5.0	**12 J**	**0.28 J**	<5.0	**67 J**	<1.0	**0.061 J**	<10	**0.63 J**	**6.2**	<5.0	**28 J**	**0.37 J**	<50	**110**
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015						**6,000**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**30,000**	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	**46 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**63 J**	NS	**16,000**	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016						**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS	**990**
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**68**
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**370**
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**230**
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017						**720**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	**19,000**	**580**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	**18,000**	**95**
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**570**
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**320**
MW-25	W-R2330024-042418-DMS-010	4/24/2018						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**1,100**
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**45**
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014						**900**	**0.37 J**	**2.7 J**	**37 J**	<1.0	<1.0	**1.8 J**	**1.2 J**	**4.6**		**1,900**	**1.1 J**	<50	**110**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**36 J**	**0.39 J**	**1.5 J**	**34 J**	<1.0	<1.0	<10	**1.1 J**	**1.0 J**	<0.005	**55 J**	<3.0	<50	**86**
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014						**210**	**0.22 J**	<5.0	**25 J**	<1.0	**0.13 J**	**0.52 J**	**0.65 J**	**2.0 J**		**360**	<3.0	<50	**69**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.16 J**	<5.0	**24 J**	<1.0	**0.079 J**	<10	**0.54 J**	**1.0 J**	<5.0	<200	<3.0	<50	**65**
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015						**2,200**	**0.33 J**	**3.5 J**	**34 J**	<1.0	**0.16 J**	**4.5 J**	**2.1 J**	**7.8**		**4,300**	**3.4**	<50	**100**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**82**	**0.27 J**	<5.0	**21 J**	<1.0	**0.070 J**	**0.29 J**	**0.80 J**	**2.2 J**	<5.0	**130 J**	<3.0	<50	**25 J**
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015						**910**	NS	NS	NS	NS	NS	NS	NS	NS		**2,300**	NS	21000	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	20000	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS	**58**
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**11 J**
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016						**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**910**	NS	NS	**45 J**
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**250**
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017						**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	**14,000**	**19 J**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23 J**	NS	**13,000**	**5.8 J**
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**480**	NS	NS	**71**
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**62**
MW-26	W-R2330024-042418-DMS-012	4/24/2018						**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	NS	**17**
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS	**5.4**
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014						**190**	**0.61 J**	**4.7 J**	**240**	<1.0	**0.097 J**	**0.69 J**	**2.4 J**	**3.7 J**		**1,700**	**0.70 J**	<50	**160**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**	<1.0	<1.0	<10	**2.9 J**	**1.9 J**	NS	**1,500**	**0.076 J**	<50	**160**
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014						**460**	**0.25 J**	**2.7 J**	**200**	<1.0	**0.063 J**	**1.2 J**	**2.5 J**	**4.2**		**1,900**	**1.2 J**	<50	**140**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**32 J**	**0.18 J**	**2.2 J**	**290**	<1.0	<1.0	**0.22 J**	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50	**110**
MW-27[A]	NS	NS						**270**	**0.43 J**	**0.97 J**	**210**	<1.0	**0.13 J**	**0.76 J**	**1.9 J**	**2.3 J**		**2,200**	**0.62 J**	<50	**72**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.67 J**	**0.75 J**	**260**	<1.0	**0.23 J**	**0.35 J**	**2.4 J**	**1.3 J**	<5.0	**1,900**	<3.0	<50	**80**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016						**59**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	NS	**94**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	<0.2	**6.3 J**	**2.4 J**	<0.20	<2.0	**6.8**	**12 J**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<0.2	**2.3 J**	1.7 J	<0.20	<2.0	**0.35 J**	**2.2 J**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	<0.2	**6.5 J**	**1.1 J**	<0.20	<2.0	**1.4 J**	**6.1 J**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<0.2	**4.4 J**	<5.0	<0.20	<2.0	<4.0	**4.4 J**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	<0.2	**4.9 J**	**1.2 J**	<0.20	<2.0	**1.5 J**	**6.3 J**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<0.2	**4.8 J**	**1.1 J**	<0.20	<2.0	<4.0	**8.4 J**
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	<0.2	**4.3 J**	**0.9 J**	<0.20	<2.0	**3.1 J**	**7.3 J**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<0.2	**0.23 J**	<5.0	<0.20	<2.0	**0.41 J**	**1.6 J**
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	<0.2	**2.7 J**	**0.86 J**	<0.20	<2.0	**0.98 J**	**4.5 J**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	**3.0 J**
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**7.0**	**16 J**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	**0.064 J**	**9.1 J**	<5.0	<0.20	<2.0	**1.1 J**	**7.0 J**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	**0.062 J**	**8.8 J**	<5.0	<0.20	<2.0	**0.55 J**	**5.0 J**
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	<0.2	**9.3 J**	**1.1 J**	<0.20	<2.0	**1.9 J**	**11 J**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<0.2	**7.5 J**	**0.79 J**	<0.20	<2.0	**0.66 J**	**4.2 J**
MW-27[A]	NS	NS	<0.2	**5.7 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.0 J**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<0.2	**6.8 J**	**0.97 J**	**0.095 J**	<2.0	<4.0	**3.1 J**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3	<1.1
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3	<1.1
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3	<1.1
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
																	Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**100**
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**110**
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**100**
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**110**
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**110**
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017						**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	**75,000**	**100**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	**69,000**	**90**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017						**35**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS	**92**
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**91**
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018						**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS	NS	**110**
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	**4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**100**
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018						**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**120**
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019						**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**850**
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	**2.9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**830**
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015						**530**	<2.0	**2.5 J**	**200**	<1.0	**0.046 J**	**1.3 J**	**1.4 J**	**1.6 J**		**3,200**	**2.0 J**	<50	**410**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**8.8 J**	<2.0	**2.3 J**	**200**	<1.0	<1.0	<10	**1.1**	**0.35 J**	<5.0	**2,400**	<3.0	<50	**380**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015						**370**	<2.0	**2.1 J**	**200**	<1.0	**0.065 J**	**1.3 J**	**1.3 J**	**0.88 J**		**2,900**	**0.60 J**	<50	**400**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	<2.0	**2.4**	**200**	<1.0	<1.0	<10	**1.3 J**	<4.0	<5.0	**2,500**	<3.0	<50	**400**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015						**1,400**	**0.11 J**	**6.2**	**220**	<1.0	**0.11 J**	**3.3 J**	**2.0 J**	**5.6**		**5,400**	**2.8 J**	<50	**400**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**3.1 J**	**220**	<1.0	**0.048 J**	<10	**1.0 J**	1.3 J	<5.0	**2,800**	<3.0	<50	**400**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015						**420**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	**21,000**	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**20,000**	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**5,400**	NS	NS	**260**
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**3,000**	NS	NS	**300**
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**290**
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	**21,000**	**240**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**22,000**	**250**
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**2,900**	NS	NS	**210**
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**210**
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018						**42**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	NS	**250**
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**250**
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018						**15.0**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS	**66**
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	**110.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**210**
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019						**230.0**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**160**
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**180**
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015						**580**	**0.30 J**	**4.3 J**	**120**	<1.0	**0.53 J**	**1.7 J**	**0.30 J**	**3.9 J**		**500**	**1.3 J**	<50	**72**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	**0.39 J**	**3.2 J**	**110**	<1.0	**0.45 J**	<10	**0.28 J**	**1.1 J**	**5.0**	**18 J**	<3.0	<50	**67**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015						**110**	**0.28 J**	**1.6 J**	**95 J**	<1.0	**0.54 J**	**0.34 J**	**0.19 J**	**2.2 J**		**100 J**	<3.0	<50	**47 J**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**5.8 J**	**0.44 J**	**2.3 J**	**110**	<1.0	**0.22 J**	<10	**0.62 J**	**1.6 J**	<5.0	**180 J**	<3.0	<50	**110**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**310**	NS	**14,000**	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**740**	NS	**13,000**	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016						**21 J**	NS	NS	NS	NS	NS	NS	NS	NS		**710**	NS	NS	**110**
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**130**
MW-30[A]	DUP 2	4/22/2016						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**650**	NS	NS	**120**
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**120**
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016						**28 J**	NS	NS	NS	NS	NS	NS	NS	NS		**1,000**	NS	NS	**94**
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**990**	NS	NS	**100**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.2 J**	**6.8 J**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<0.2	**3.3 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**6.4 J**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.4 J**	**17 J**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<0.2	**3.9 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**8.0 J**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<0.2	**1.6 J**	<5.0	<0.20	<2.0	**0.68 J**	**3.8 J**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015	<0.2	**2.0 J**	<5.0	<0.20	<2.0	**0.96 J**	**4.6 J**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<0.2	**1.7 J**	<5.0	<0.20	<2.0	**0.91 J**	**5.3 J**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
								Metals												
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																		
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017						**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	**12,000**	**75**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	**12,000**	**96**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017						**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**75**
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**920**	NS	NS	**70**
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018						**70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**620**	NS	NS	**110**
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**92**
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018						**4.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**120**
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**730**	NS	NS	**52**
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**81**
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	**8.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**92**
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019						**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**100**
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**68**
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015						**330**	NS	NS	NS	NS	NS	NS	NS	NS		**490**	NS	<50	**240**
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**55 J**	NS	<50	**240**
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015						**3,400**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**27,000**	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	**17,000**	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**130**	NS	NS	**360**
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**390**
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016						**14 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**400**
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110 J**	NS	NS	**370**
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017						**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**870**	NS	**18,000**	**410**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150 J**	NS	**18,000**	**420**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS		**440**
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS		**430**
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018						**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS		**630**
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS		**400**
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018						**1,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**830**
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140**	NS	NS	**280**
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**590**
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**530**
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015						**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	<50	**95**
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	<50	**62**
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015						**920**	NS	NS	NS	NS	NS	NS	NS	NS		**6,300**	NS	**66,000**	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**66,000**	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016						**160**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS	**81**
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**410**	NS	NS	**87**
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016						**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**100**
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**82**
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017						**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	**25,000**	**46 J**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**810**	NS	**24,000**	**29 J**
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017						**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS		**90**
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS		**80**
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018						**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS		**42**
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS		**33**
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**			**81**
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	**4.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**			**85**
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019						**4,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**1,600**
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**780**	NS	NS	**60**
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015						**1,000**	NS	NS	NS	NS	NS	NS	NS	NS		**4,500**	NS	<50	**120**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DT}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	XYlenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018																			
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018																			
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L							Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50	**80**
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015						**860**	NS	NS	NS	NS	NS	NS	NS	NS		**3,400**	NS	**84,000**	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016						**67**	NS	NS	NS	NS	NS	NS	NS	NS		**2,700**	NS	NS	**81**
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS	**84**
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**78**
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**64**
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017						**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	**96,000**	**100**
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**98,000**	**89**
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**72**
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**68**
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018						**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**84**
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018						**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**84**
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	**3.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**75**
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015						**1,700**	**0.24 J**	**4.2 J**	**120**	<1.0	<1.0	**2.6 J**	**2.2 J**	**5.0**		**2,800**	**2.4 J**	<50	**320**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**20 J**	**0.23 J**	**3.0 J**	**110**	<1.0	<1.0	**1.3 J**	**1.0 J**	**0.75 J**	<0.005	**120 J**	<3.0	<50	**270**
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015						**28 J**	NS	NS	NS	NS	NS	NS	NS	NS		**1,000**	NS	**20,000**	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	**19,000**	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS		**1,200**	NS	NS	**300**
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**850**	NS	NS	**290**
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**520**
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**490**
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**24,000**	**230**
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	**24,000**	**240**
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017						**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**290**
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**290**
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018						**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**280**
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**280**
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**420**
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	**5.2**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**460**
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**190**
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**190**
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**320**	NS	NS	**16 J**
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**6.3 J**
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016						**50 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190 J**	NS	NS	**19 J**
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	8 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**1.7 J**
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017						**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	**15,000**	**29 J**
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	**13,000**	**1.8 J**
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS		**12**
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.6	NS		**7.6**
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018						**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**210**	NS	NS	**18**
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	**4.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**3.4 J**
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018						**73**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS	**27**
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS	**8.6**
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019						**460**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**81**
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**3.4 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**3.3 J**	**13 J**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<0.2	**3.6 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018																			
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017																			
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**	<3.0
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**	<3.0
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<25	<1.0	<1.0	<50	<50	**6.7**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**	**4.2**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**0.72 J**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<25	<1.0	<1.0	<50	<50	**2.4**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.29 J**	<3.0
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.48 J**	<3.0
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018																			
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	**0.13 J**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017																			
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.28 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.21 J**	<1.0
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.77 J**	<5.0	<5.0	<10	**0.34 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.25 J**	<1.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.56 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.23 J**	<1.0
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<10	<10	**0.19 J**	<10	**0.41 J**	<5.0	<10	**1.6 J**	**0.54 J**	**0.22 J**	**0.79 J**	<5.0	<10	**0.41 J**	<5.0	**0.35 J**	<5.0	<5.0	<1.0
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	**0.12 J**	<5.0	**0.51 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.14 J**	<1.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
																	Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016						**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**160**
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	NS	**150**
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016						**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**150**
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**130**
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017						**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	**15,000**	**250**
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	**13,000**	**140**
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017						**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**450**	NS	NS	**190**
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**200**
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018						**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**580**	NS	NS	**190**
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	**6.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**130**
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018						**940**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**270**
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	**13.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**37**	NS	NS	**49**
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019						**400.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**900**	NS	NS	**350**
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	**8.10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**200**
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015						**150**	**0.15 J**	**9.1**	**24 J**	<1.0	**0.18 J**	**0.41 J**	**0.86 J**	**1.6 J**		**750**	**1.3 J**	<50	**210**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	**0.15 J**	**2.8 J**	**21 J**	<1.0	**0.23 J**	**0.16 J**	**0.60 J**	**1.1 J**	<5.0	**43 J**	<3.0	<50	**72**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015						**8.6 J**	**NS**	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**12,000**	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	**12,000**	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016						**22 J**	NS	NS	NS	NS	NS	NS	NS	NS		**440**	NS	NS	**110**
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**100**
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016						**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	NS	**72**
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130 J**	NS	NS	**68**
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017						**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	**12,000**	**610**
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	**13,000**	**130**
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017						<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**420**	NS	NS	**800**
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**440**	NS	NS	**830**
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018						<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**96**
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**98**
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018						**6.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	**34**
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	**80**	NS	NS	**21**
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**84**
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**69**
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013						**120,000**	**2.8 J**	**300**	**730 J**	**5.9 J**	**4.0 J**	**240**	**140 J**	**510**		**310,000**	**250**	<50	**5,300**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.37 J**	<2.0	**59 J**	<1.0	**0.071 J**	<10	**8.0 J**	**2.3 J**	<0.005	**71 J**	**0.072 J**	<50	**610**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013						**2,100**	**0.54 J**	**2.1 J**	**65 J**	**0.12 J**	**0.20 J**	**4.6 J**	**9.6 J**	**7.4**		**3,500**	**4.0**	<50	**800**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.37 J**	<2.0	**49 J**	<1.0	**0.064 J**	<10	**5.4 J**	**1.9 J**	<0.005	**150 J**	**0.11 J**	<50	**470**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013						**790**	**0.32 J**	**2.0 J**	**33 J**	<1.0	**0.052 J**	**5.2 J**	**1.5 J**	**2.9 J**		**1,600**	**0.79 J**	<50	**53**
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.43 J**	**0.77 J**	**34 J**	<1.0	<1.0	<10	**2.2 J**	**2.0 J**	**2.3 J**	**770**	<3.0	<50	**53**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013						**38,000 J**	**13 J**	**37 J**	**2,900**	**1.7 J**	**11**	**75 J**	**38 J**	**320**		**73,000**	**1,700**	<50	**1,800**
SB-21	W-R2330009-120513-RD-001	12/5/2013	**0.94 J**	<5.0	<2.0	<5.0	**0.44 J**	**24 J**	**0.97 J**	**2.3 J**	**2,000**	<1.0	<1.0	**1.7 J**	**5.5 J**	**2.3 J**	**6.9**	**13,000**	**0.49 J**	<50	**530**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013						**1,900**	**2.2 J**	<5.0	**1000**	<1.0	<1.0	**8.1 J**	**4.3 J**	**40 J**		**16,000**	**59**	<50	**550**
SB-22	W-R2330009-120513-RD-002	12/5/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.99 J**	**2.0 J**	**960**	<1.0	<1.0	**1.1 J**	**3.9 J**	**2.8 J**	**3.6 J**	**12,000**	**0.21 J**	<50	**560**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013						**3,200**	**2.8 J**	**72**	**880 J**	**1.8 J**	<1.0	**130**	**40 J**	**150**		**8,600**	**86**	<50	**1,600**
SB-23	W-R2330009-120513-RD-003	12/5/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.39 J**	**23**	**690**	<1.0	<1.0	**2.3 J**	**3.0 J**	**1.5 J**	**31**	**12,000**	**0.084 J**	<50	**70**
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013						**6,700**	**2.6 J**	**130**	**860 J**	**3.5 J**	**2.9 J**	**130**	**77 J**	**220**		**190,000**	**150**	<50	**4,100**
SB-24	W-R2330009-120613-RD-004	12/6/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**52 J**	**0.60 J**	**6.7**	**410**	<1.0	<1.0	<10	**2.5 J**	**2.5 J**	**9.2**	**4,700**	<3.0	<50	**360**
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013						**250,000**	**2.6 J**	**470**	**1300**	**9.8 J**	**13**	**540**	**270**	**700**		**520,000**	**440**	<50	**9,200**
SB-25	W-R2330009-120613-RD-005	12/6/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**930**	**4.3**	**11**	**84 J**	<1.0	**0.10 J**	**1.4 J**	**4.0 J**	**1.5 J**	**46.0**	**1,100**	**0.63 J**	<50	**530**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013						**15,000**	**5.0 J**	**610**	**970 J**	**12**	**17**	**1,000**	**310**	**1,100**		**700,000**	**640**	<50	**14,000**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,nr}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.76 J**	**7.8 J**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	<50
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**1,500**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.20 J**	**4.0 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	<0.2	**22**	**0.68 J**	<0.20	**0.35 J**	**7.3**	**22 J**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<0.2	**12 J**	**0.68 J**	<0.20	<2.0	**0.19 J**	**4.8 J**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	<0.2	**10 J**	**0.77 J**	<0.20	<2.0	**2.4 J**	**8.1 J**
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<0.2	**8.5 J**	**0.84 J**	<0.20	<2.0	**0.17 J**	**3.0 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	**0.39**	**86 J**	<5.0	**2.7**	<2.0	**86**	**2,200**
SB-21	W-R2330009-120513-RD-001	12/5/2013	<0.2	**10 J**	<5.0	<0.20	**1.1 J**	**1.3 J**	**26 J**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	<0.2	**20 J**	<5.0	<0.20	<2.0	**4.0 J**	**210 J**
SB-22	W-R2330009-120513-RD-002	12/5/2013	<0.2	**16 J**	<5.0	<0.20	**0.081 J**	**0.77 J**	**24 J**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	**0.12 J**	**130 J**	**12 J**	<0.20	**0.96 J**	**9.3**	**420 J**
SB-23	W-R2330009-120513-RD-003	12/5/2013	<0.2	**9.1 J**	**0.76 J**	<0.20	<2.0	**1.7 J**	**5.6 J**
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	**0.30**	**210**	**9.8 J**	**0.53 J**	**2.4 J**	**86**	**580**
SB-24	W-R2330009-120613-RD-004	12/6/2013	<0.2	**14 J**	**0.73 J**	<0.20	<2.0	**0.38 J**	**4.8 J**
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013	**0.95**	**1,100**	**27 J**	**1.7 J**	**6.3 J**	**590**	**1,700**
SB-25	W-R2330009-120613-RD-005	12/6/2013	<0.2	**5.0 J**	<5.0	<0.20	**0.26 J**	**3.2 J**	**4.5 J**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013	**0.51**	**1,100**	**47 J**	**2.5**	**13 J**	**660**	**2,900**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<25	<1.0	<1.0	<50	**3.2 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.28 J**	<3.0
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<25	<1.0	<1.0	<50	**6.1 J**	<1.0	<1.0	**0.53 J**	<1.0	**2.9 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	**4.3 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<25	<1.0	<1.0	<50	**3.6 J**	<1.0	<1.0	**0.53 J**	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<25	**1.3**	**2.6**	<50	**4.7 J**	**12.0**	<1.0	<5.0	<1.0	<5.0	<1.0	**0.84 J**	<5.0	<5.0	**14.0**	**6.0**	<1.0	**39**	**74.0**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<25	<1.0	**0.98 J**	<50	<50	**21.0**	<1.0	<5.0	<1.0	<5.0	<1.0	**5.5 J**	<5.0	<5.0	**0.29 J**	**2.0 J**	<1.0	**0.33 J**	**1.0 J**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**	<3.0
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<25	<1.0	<1.0	<50	<50	**1.1**	<1.0	<5.0	**1.4**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**1.3 J**	<1.0	**0.27 J**	**1.0 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<25	<1.0	<1.0	<50	**3.9 J**	**0.71 J**	<1.0	**0.44 J**	**1.2**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**0.62 J**	<1.0	**0.29 J**	**1.3 J**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**	<3.0
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.38 J**	<3.0
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<25	<1.0	<1.0	<50	**14 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**6.2**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-19	W-2330012-040114-ACN-004	4/1/2014	<25	<1.0	<1.0	<50	**3.3 J**	**0.36 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	**1.1**	**0.62 J**	**1.0 J**
SB-20	W-2330012-040114-ACN-005	4/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.25 J**	<3.0
SB-35	W-2330012-040114-ACN-006	4/1/2014	<25	<1.0	**1.5**	<50	**3.3 J**	**6.1**	<1.0	<5.0	**2.0**	<5.0	<1.0	**1.5**	<5.0	<5.0	**0.18 J**	**1.4 J**	**1.1**	**0.25 J**	**1.9 J**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<25	<1.0	<1.0	<50	**7.1 J**	**2.5**	<1.0	<5.0	**1.2**	<5.0	<1.0	<10	<5.0	<5.0	**0.84 J**	**1.9 J**	<1.0	**0.54 J**	**2.8 J**
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<25	<1.0	<1.0	<50	**7.8 J**	**2.7**	<1.0	<5.0	**1.4**	<5.0	<1.0	**1.4 J**	<5.0	<5.0	**0.86 J**	**2.0 J**	<1.0	**0.52 J**	**2.8 J**
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<25	<1.0	<1.0	<50	**6.9 J**	**2.6**	<1.0	**1.3 J**	<1.0	<5.0	<1.0	<10	<5.0	<5.0	**0.84 J**	<5.0	<1.0	**0.82 J**	**1.7 J**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**2.2 J**	<1.0	**0.98 J**	<50	**16 J**	**2.8**	<1.0	**1.4 J**	**0.96 J**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**1.6 J**	<1.0	**0.38 J**	**1.5 J**
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<25	<1.0	**0.91 J**	<50	**11 J**	**17**	<1.0	**1.6 J**	**90**	<5.0	<1.0	**2.0 J**	<5.0	<5.0	<1.0	**2.0 J**	<1.0	**0.30 J**	**1.5 J**
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.30 J**	<3.0
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<25	<1.0	<1.0	<50	<50	**0.31 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.49 J**	<3.0
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.35 J**	<3.0
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<25	<1.0	<1.0	<50	<50	**0.29 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.39 J**	<3.0
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<25	<1.0	<1.0	**1.4 J**	**7.5 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<25	<1.0	<1.0	<50	**4.0 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<25	<1.0	<1.0	<50	**3.6 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<120	<1.0	<1.0	<50	<50	<5.0	<1.0	<5.0	<5.0	<25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<120	<1.0	<1.0	<50	**3.4 J**	<5.0	<1.0	<5.0	<5.0	<25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<25	<1.0	<1.0	<50	**120**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	**6.2 J**	<1.0	<1.0	<50	**4.4 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																			
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	**2.8 J**	<1.0	<1.0	<50	**0.79 J**	<1.0	<1.0	<5.0	<1.0	<5.0	**1.3**	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.16 J**	<1.0
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.26 J**	<5.0	<5.0	<10	**0.28 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.22 J**	<1.0
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.29 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.19 J**	<1.0
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.18 J**	<1.0
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<10	**0.67 J**	**1.6 J**	**0.46 J**	**2.0 J**	<5.0	<10	<5.0	**6.0 J**	**1.0 J**	**1.2 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.26 J**	<1.0
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<10	**3.1 J**	**2.9 J**	<10	<10	<5.0	<10	<5.0	**1.2 J**	<5.0	**0.92 J**	<5.0	<10	**0.64 J**	<5.0	<5.0	<5.0	**0.21 J**	<1.0
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<10	<10	**1.2 J**	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	**0.85 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.37 J**	<1.0
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<10	<10	**0.29 J**	<10	**0.40 J**	<5.0	<10	**0.59 J**	**0.39 J**	<5.0	**0.73 J**	<5.0	<10	<4.0	<5.0	**0.37 J**	<5.0	**0.26 J**	<1.0
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.69 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-19	W-2330012-040114-ACN-004	4/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-20	W-2330012-040114-ACN-005	4/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-35	W-2330012-040114-ACN-006	4/1/2014	<10	<10	**2.4 J**	<10	**1.6 J**	<5.0	<10	<5.0	**1.7 J**	<5.0	<10	<5.0	**1.9 J**	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<10	<10	**1.5 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<10	<10	**1.2 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	**1.6 H**
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.3 J**	<1.0
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	**1.3 H**
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<80	<10	<5.0	<10	<10	<80	<80	<40	<5.0	<5.0	<10	<5.0	<80	<4.0	<5.0	<40	<40	<40	<1.0
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	**1.3 H**
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.89 J**	**0.88 J**	**1.7 J**	<1.0
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																			
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																				Metals	
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	60	22	8.6	57 J	<1.0	<1.0	<10	2.8 J	1.4 J	1.0 J	1,900	0.11 J	<50	92
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013						62,000	2.5 J	86	610 J	3.2 J	3.2 J	290	57 J	220		140,000	100	<50	2,800
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<5.0	<5.0	<2.0	<5.0	<5.0	22 J	0.56 J	2.1 J	160	<1.0	<1.0	<10	5.3 J	2.8 J	1.5 J	7,400	<3.0	<50	310
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013						17,000	1.1 J	18 J	300 J	<1.0	0.61 J	59 J	13 J	46		38,000	19 J	<50	730
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<5.0	<5.0	<2.0	<5.0	<5.0	11 J	0.48 J	2.0 J	150	<1.0	<1.0	<10	4.7 J	2.4 J	1.3 J	4,900	<3.0	<50	300
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013						95,000	3.2 J	210	550 J	5.2 J	5.2 J	350	85 J	330		230,000	200	<50	4,100
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<5.0	<5.0	<2.0	<5.0	<5.0	31 J	1.8 J	10	110	<1.0	<1.0	<10	2.8 J	2.1 J	<0.005	1,400	<3.0	<50	180
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013						7,600	4.1 J	10 J	2,100	<1.0	2.8 J	71 J	12 J	90		51,000	330	<50	980
SB-29	W-R2330009-121213-AJL-014	12/12/2013	0.57 J	1.3 J	<2.0	<5.0	0.36 J	25 J	0.83 J	<5.0	1,700	<1.0	<1.0	3.1 J	5.2 J	6.2 J	4.2 J	22,000	<3.0	<50	580
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013						7,300	3.1 J	6.8 J	2,700	<1.0	2.4 J	22 J	7.2 J	58		41,000	940	<50	380 J
SB-30	W-R2330009-121213-AJL-016	12/12/2013	1.1 J	2.2 J	<2.0	<5.0	0.40 J	18 J	0.43 J	<5.0	2,100	<1.0	<1.0	<10	3.6 J	<4.0	3.9 J	29,000	1.1 J	<50	260 J
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013						2,000	0.34 J	5.7 J	84 J	0.1 J	<1.0	14	2.5 J	14		8,400	11	<50	130
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	60 J	0.46 J	23 J	520 J	<10	<10	4.3 J	5.9 J	<40	2.1 J	21,000	<3.0	<50	170 J
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013						1,600	1.7 J	<5.0	1,600	<1.0	2.4 J	12 J	6.2 J	31 J		30,000	120	<50	290 J
SB-32	W-R2330009-121213-AJL-015	12/12/2013	0.17 J	1.0 J	<2.0	<5.0	<5.0	21 J	0.53 J	<5.0	1,500	<1.0	<1.0	4.7 J	5.4 J	<4.0	3.7 J	26,000	<3.0	<50	270 J
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013						45,000	95	66	3,400	2.0 J	42	320	51 J	1,100		170,000	3,200	<50	2,200
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<5.0	0.20 J	<2.0	<5.0	<5.0	30 J	1.6 J	<5.0	1,500	<1.0	<1.0	3.5 J	6.8 J	<4.0	60	23,000	<3.0	<50	420 J
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013						2,000	0.34 J	5.7	84 J	0.10 J	<1.0	14	2.5 J	14		8,400	11	<50	130
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	60 J	0.46 J	23 J	520 J	<1.0	<1.0	4.3 J	5.9 J	<4.0	2.1 J	21,000	<3.0	<50	170 J
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013						11,000	0.97 J	12	150	0.49 J	0.26 J	59	11 J	50		31,000	77	<50	610
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	75 J	0.89 J	9.3 J	700 J	<1.0	<1.0	<10	4.6 J	<4.0	4.5 J	38,000	<3.0	<50	1,500
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<5.0	<5.0	<2.0	<5.0	<5.0	35 J	1.2 J	44	540	<1.0	0.12 J	0.97 J	4.1 J	0.76 J	<0.005	11,000	<3.0	<50	270
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<5.0	<5.0	<2.0	<5.0	<5.0	38 J	0.16 J	5.7	370	<1.0	0.046 J	0.65 J	3.9 J	<4.0	<0.005	7,000	<3.0	<50	390
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<5.0	<5.0	<2.0	<5.0	<5.0	380	0.33 J	6.2	58 J	<1.0	0.053 J	1.4 J	3.9 J	1.5 J	<0.005	13,000	0.44 J	<50	660
SB-19	W-2330012-040114-ACN-004	4/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	39 J	0.46 J	5.3	140	<1.0	<1.0	<10	5.8 J	0.54 J	2.1	2,100	0.081 J	<50	930
SB-20	W-2330012-040114-ACN-005	4/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	300	0.19 J	<5.0	21 J	<1.0	<1.0	<10	1.8 J	1.2 J	1.3	490	0.13 J	<50	98
SB-35	W-2330012-040114-ACN-006	4/1/2014	1.3 J	1.9 J	1.9 J	<5.0	<5.0	43 J	0.81 J	4.3 J	1,000	<1.0	<1.0	3.6 J	3.2 J	<4.0	2.4 J	25,000	0.43 J	<50	550
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<5.0	<5.0	<2.0	<5.0	<5.0	160 J	0.75 J	4.3 J	2,800	<1.0	<1.0	1.6 J	6.4 J	<4.0	2.5 J	27,000	0.47 J	<50	260
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<5.0	<5.0	<2.0	<5.0	<5.0	130 J	0.43 J	4.4 J	2,600	<1.0	<1.0	1.4 J	6.6 J	<4.0	6.3 J	27,000	0.41 J	<50	250 J
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<5.0	<5.0	<2.0	<5.0	<5.0	66 J	1.5 J	24 J	640	<1.0	<1.0	3.5 J	8.8 J	<4.0	9.5 J	16,000	3.1 J	<50	530
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<5.0	<5.0	<2.0	<5.0	<5.0	13 J	2.5 J	14 J	380	<1.0	<1.0	<10	6.2 J	<4.0	5.2 J	2,200	0.47 J	<50	430
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<5.0	0.80 J	<2.0	<5.0	<5.0	75	0.61 J	2.3 J	2,100	<1.0	<1.0	4.4 J	4.6 J	2.3 J	6.6 J	25,000	1.5 J	<50	300
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<5.0	<5.0	<2.0	<5.0	<5.0	38 J	0.40 J	6.4 J	100 J	<1.0	<1.0	1.8 J	3.1 J	2.7 J	<0.005	5,100	1.2 J	<50	960
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<5.0	<5.0	<2.0	<5.0	<5.0	39 J	0.43 J	2.8 J	160	<1.0	<1.0	0.95 J	6.7 J	2.4 J	<0.005	3,200	0.18 J	<50	1,200
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<5.0	<5.0	<2.0	<5.0	<5.0	170 J	1.4 J	<5.0	69 J	<1.0	<1.0	<10	7.7 J	6.1 J	<0.005	280 J	<3.0	<50	410
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<5.0	<5.0	<2.0	<5.0	<5.0	21 J	<2.0	<5.0	9.3 J	<1.0	<1.0	<10	0.17 J	0.65 J	2.3 J	31 J	0.62 J	<50	59
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<5.0	<5.0	<2.0	<5.0	<5.0	74 J	0.43 J	<5.0	44 J	<1.0	0.58 J	<10	2.6 J	<4.0	2.6 J	200 J	14 J	<50	110 J
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<5.0	<5.0	<2.0	<5.0	<5.0	25 J	0.40 J	<5.0	27 J	<1.0	<1.0	1.1 J	1.5 J	4.0	<0.005	50 J	0.069 J	<50	22 J
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<5.0	<5.0	<2.0	0.69 H	<5.0	16 J	1.3 J	<5.0	34 J	<1.0	0.4 J	4.3 J	1.7 J	36 J	110	33 J	2.3 J	<50	51 J
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<5.0	<5.0	<2.0	<5.0	<5.0	3.4 J	1.1 J	0.93 J	93 J	<1.0	0.063 J	0.44 J	0.55 J	5.2 J	0.0012 J	170 J	0.25 J	<50	69
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<250	1.4 J	<25	78 J	<1.0	0.23 J	<10	1.3 J	5.9 J	<0.005	250 J	0.77 J	<50	460 J
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<40	<5.0	<2.0	<5.0	<5.0	26 J	0.43 J	4.6 J	340	<1.0	0.046 J	1.2 J	3.4 J	13 J	<0.005	4,100	1.7 J	<50	880
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<5.0	<5.0	<2.0	<5.0	<5.0	11 J	0.52 J	<5.0	150 J	<1.0	<1.0	<10	0.93 J	5.7 J	<0.005	<100	2.6 J	<50	6.2 J
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	1500	NS	NS	NS	NS	NS	NS	NS	NS	NS	5,900	NS	NS	180
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	11	NS	NS	NS	NS	NS	NS	NS	NS	NS	45 J	NS	NS	38
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	2.9 J	<2.0	<5.0	0.59 J	<1.0	<1.0	0.14 J	0.26 J	0.70 J	<0.005	24 J	0.27 J	<50	1.5 J
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	2.4 J	0.11 J	<5.0	3.1 J	<1.0	<1.0	0.59 J	0.79 J	0.57 J	<0.005	23 J	0.0053 J	<50	2.3 J
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013						3.4 J	<2.0	<5.0	2.7 J	<1.0	0.049 J	0.28 J	<20	1.5 J		26 J	0.053 J	<50	0.38 J
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	1.7 J	0.080 J	<5.0	2.2 J	<1.0	<1.0	<10	0.46 J	1.1 J	<0.005	21 J	<3.0	<50	1.0 J

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DT}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<0.2	**14 J**	**0.75 J**	<0.20	<2.0	**0.67 J**	**14 J**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013	<0.2	**210**	**9.4 J**	<0.20	**2.3 J**	**180**	**680**
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<0.2	**25**	<5.0	<0.20	<2.0	**0.46 J**	**19 J**
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<0.2	**53 J**	<5.0	<0.20	<2.0	**46**	**140 J**
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<0.2	**24**	<5.0	<0.20	<2.0	<4.0	**18 J**
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013	**0.23**	**310**	**13 J**	**0.75 J**	**3.3 J**	**320**	**800**
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<0.2	**15 J**	<5.0	<0.20	<2.0	**0.49 J**	**4.2 J**
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013	**0.13**	**51 J**	<5.0	<0.20	<2.0	**24 J**	**470 J**
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.7 J**	**18 J**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013	**0.15**	**22 J**	<5.0	<0.20	<2.0	**19 J**	**950**
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	<4.0	<500
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013	**0.1**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**44**
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	<27
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013	<0.2	**31 J**	<5.0	<0.20	<2.0	**2.4 J**	**210 J**
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<0.2	**19 J**	<5.0	<0.20	<2.0	**2.4 J**	**16 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013	**2.2**	**320**	<5.0	**16**	<2.0	**90**	**9,900**
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<0.2	**16 J**	<5.0	<0.20	<2.0	**2.3 J**	**61 J**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013	**0.11**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**44 J**
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	**27 J**
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013	**0.43**	**40**	**2.6 J**	**0.18 J**	**0.37 J**	**30**	**140**
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<0.2	**26 J**	<5.0	<2.0	<2.0	**1.7 J**	**34 J**
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<0.2	**31**	**0.98 J**	<0.2	<2.0	**0.86 J**	**360**
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<0.2	**7.5 J**	**1.7 J**	<0.2	<2.0	**0.69 J**	**19 J**
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<0.2	**11 J**	<5.0	<0.2	<2.0	**1.4 J**	**140**
SB-19	W-2330012-040114-ACN-004	4/1/2014	<0.2	**18 J**	**0.84 J**	<0.20	<2.0	**0.46 J**	**62**
SB-20	W-2330012-040114-ACN-005	4/1/2014	<0.2	**2.6 J**	**0.73 J**	<0.20	<2.0	**1.3 J**	**2.8 J**
SB-35	W-2330012-040114-ACN-006	4/1/2014	<0.2	**10 J**	<5.0	<0.20	<2.0	**2.2 J**	**16 J**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<0.2	**9.7 J**	<5.0	<0.20	<2.0	**3.3 J**	**2.9 J**
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<0.2	**9.6 J**	<5.0	<0.20	<2.0	**3.3 J**	**2.5 J**
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<0.2	**31 J**	<5.0	<0.20	<2.0	**1.1 J**	**340**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<0.2	**15 J**	<5.0	<0.20	<2.0	<4.0	**21 J**
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<0.2	**11 J**	**1.1 J**	<0.20	**1.5 J**	**1.1 J**	**6.9 J**
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<0.2	**9.6 J**	<5.0	<0.20	<2.0	<4.0	**7.8 J**
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<0.2	**17 J**	**7.2**	<0.2	<2.0	**0.59 J**	**9.0 J**
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<0.2	**20 J**	**5.4 J**	<0.20	<2.0	**2.4 J**	**21J**
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	**1.3 J**
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<0.2	**4.3 J**	<5.0	<0.20	<2.0	<4.0	**8.0 J**
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<0.2	**6.4 J**	<5.0	<0.20	<2.0	<4.0	**1.9 J**
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.2 J**	**38 J**
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**0.28 J**	**10 J**
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<0.2	**5.2 J**	<5.0	<0.20	<2.0	<4.0	**80 J**
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<0.2	**13 J**	<50	<0.20	**0.093 J**	**1.1 J**	**51**
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<0.2	**4.2 J**	<5.0	<0.20	<2.0	<4.0	**8.8 J**
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<0.2	**0.42 J**	**0.48 J**	<0.025	<2.0	<0.30	**15 J**
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<0.2	**0.6 J**	<5.0	<0.20	<2.0	<4.0	**1.8 J**
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**4.1 J**
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<0.2	**0.46 J**	<5.0	<0.20	<2.0	<4.0	**3.1 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-ref}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																			
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.4 J**	<3.0
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	**7.2**	<5.0	<1.0	<5.0	**15**	<10	**3.4 J**	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	**2.2**	<5.0	<1.0	<5.0	**5.7**	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<25	<1.0	<1.0	<50	**5.1 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-ref}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																			
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	**0.16 J**	<1.0
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3	<1.1
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-cr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013						**7.0 J**	<2.0	<5.0	**0.085 J**	<1.0	<1.0	<10	<20	**0.72 J**		**12 J**	<3.0	<50	**0.13 J**
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**2.7 J**	<2.0	<5.0	**0.11 J**	<1.0	<1.0	<10	**0.14 J**	<4.0	<0.005	**10 J**	<3.0	<50	**0.31 J**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014						**51**	**0.094 J**	<5.0	**14 J**	**0.15 J**	<1.0	<1.0	**0.17 J**	**65 J**		**17 J**	**0.16 J**	<50	**0.17 J**
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**150**	**0.48 J**	<5.0	**7.5 J**	**91 J**	<1.0	<1.0	**0.076 J**	**53 J**	**1.4 J**	**29 J**	**0.037 J**	<50	**1.2 J**
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014						**5.0 J**	<2.0	<5.0	**0.28 J**	<1.0	<1.0	<1.0	<20	**0.56 J**		**8.4 J**	**0.054 J**	<50	**0.25 J**
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**9.4 J**	<2.0	<5.0	**0.35 J**	<1.0	<1.0	<1.0	<20	<4.0	<0.005	**13 J**	<3.0	<50	**0.39 J**
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014						**3.3 J**	<2.0	<5.0	<100	<1.0	<1.0	<1.0	<20	**6.3**		<200	<3.0	<50	**0.53 J**
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	<2.0	<5.0	<100	<1.0	**0.027 J**	<10	<20	**6.3**	<5.0	<200	<3.0	<50	**0.22 J**
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014						**3.6 J**	<2.0	<5.0	**0.67 J**	<1.0	<1.0	<10	<20	**2.3 J**		**17 J**	<3.0	<50	**0.28 J**
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**3.2 J**	<2.0	<5.0	**0.58 J**	<1.0	<1.0	<10	<20	**2.2 J**	<5.0	<200	<3.0	<50	**0.23 J**
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014						**3.8 J**	<2.0	<5.0	<100	<1.0	**0.091 J**	<10	<20	**6.2**		<200	<3.0	<50	<50
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**6.2 J**	<2.0	<5.0	<100	<1.0	**0.27 J**	**0.37 J**	<20	**5.9**	<5.0	**21 J**	<3.0	<50	**0.24 J**
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014						**23 J**	**0.15 J**	<5.0	**16 J**	<1.0	**0.032 J**	**0.30 J**	<20	**170**		**33 J**	<3.0	<50	**3.5 J**
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	<5.0	**15 J**	<1.0	**0.034 J**	<10	<20	**160**	<5.0	**27 J**	<3.0	<50	**3.2 J**
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014						<50	<2.0	<5.0	**1.4 J**	<1.0	<1.0	<10	<20	<4.0		<200	<3.0	<50	<50
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	**0.45 J**	<1.0	<1.0	**0.13 J**	<20	<4.0	<5.0	<200	<3.0	<50	<50
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015						**12 J**	<2.0	<5.0	**6.8 J**	<1.0	<1.0	<10	**0.21 J**	**83**		<200	<3.0	<50	**8.1 J**
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	<50	<2.0	<5.0	<100	<1.0	<1.0	<10	<20	**2.0 J**	<5.0	<200	<3.0	<50	<50
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015						<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**	<20	**1.1 J**		<200	<3.0	<50	<50
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100	<1.0	<1.0	**0.19 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50	<50
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015						<50	<2.0	<5.0	<100	<1.0	**0.027 J**	**0.17 J**	<20	**1.0 J**		<200	<3.0	<50	<50
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100	<1.0	<1.0	**0.19 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50	<50
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015						**21 J**	<2.0	<5.0	**3.3 J**	<1.0	<1.0	<10	<20	**1.4 J**		**22 J**	<3.0	<50	**0.26 J**
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	<5.0	**1.5 J**	<1.0	<1.0	<10	<20	**1.3 J**	<5.0	<200	<3.0	<50	<50
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015						<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**	<20	**1.4 J**		**43 J**	<3.0	<50	**0.20 J**
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I-DP}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013	<0.2	<20	<5.0	<0.20	<2.0	**0.3 J**	**2.2 J**
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**1.7 J**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014	<0.2	**1.3 J**	<5.0	<0.20	<2.0	<4.0	**5.3 J**
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<0.2	**0.57 J**	<5.0	<0.20	<2.0	<4.0	**2.1 J**
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.57 J**
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.87 J**
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014	<0.2	**0.63 J**	<5.0	<0.20	<2.0	<4.0	**3.7 J**
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<0.2	**0.67 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<0.2	**0.68 J**	<5.0	**0.026 J**	<2.0	<4.0	**3.5 J**
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014	<0.2	**1.1 J**	<5.0	**0.043 J**	<2.0	<4.0	**14 J**
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<0.2	**1.0 J**	<5.0	**0.022 J**	<2.0	**0.54 J**	**14 J**
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	**8.6 J**
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015																			
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015																			
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015																			
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017																			
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017																			
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017																			
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017																			
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017																			
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017																			
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017																			
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017																			
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017																			
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017																			
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017																			
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017																			
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018																			
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018																			
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018																			
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018																			
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015																			
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015																			
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015																			
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017																			
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017																			
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017																			
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017																			
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017																			
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017																			
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017																			
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017																			
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017																			
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017																			
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017																			
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017																			
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018																			
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018																			
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018																			
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018																			
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																				
																	Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015						<50	NS	NS	NS	NS	NS	NS	NS	NS		**33 J**	NS	<50	NS
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	**1.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	**66 J**	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015						**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS		**100 J**	NS	<50	NS
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	<50	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015						**1.8 J**	NS	NS	NS	NS	NS	NS	NS	NS		<200	NS	<50	NS
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	<50	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	**67**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**88 J**	NS	NS	**5.2 J**
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**98 J**	NS	NS	**1.4 J**
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**6.5 J**
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**460**	NS	NS	**2.9 J**
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	<50
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS	**3.1**
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**3**
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	<50
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	**89**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**7.4 J**
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017						**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	**130 J**	<50
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	**250 J**	<50
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017						**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52 J**	NS	**59 J**	**1.1 J**
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93 J**	NS	**920**	**4.3 J**
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017						**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**58 J**	NS	**75 J**	**2.5 J**
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	**31 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**100 J**	NS	**190 J**	**7.6 J**
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017						**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**56 J**	NS	**150 J**	**2.5 J**
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	**200 J**	**8.7 J**
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017						**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**66 J**	NS	**190 J**	**2.9 J**
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**81 J**	NS	**150 J**	**2.0 J**
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**70 J**	NS	**170 J**	**2.6 J**
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30 J**	NS	**120 J**	**0.88 J**
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017						**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS		**1.2 J**
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017						**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**90**	NS		**0.79 J**
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017						**9.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**38 J**	NS		**1.8 J**
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS		**2.3 J**
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017						**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**91**	NS		**1.5 J**
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017						**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32 J**	NS		**7.00**
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018						**5.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30 J**			**1.5 J**
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**42 J**			**1.7 J**
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018						**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	**1.5 J**
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018						**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32 J**	NS	NS	**1.9 J**
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018						**3.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS	<50
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018						<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS	<50
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018						**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5000**	NS	NS	**74**
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018						**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4200**	NS	NS	**64**
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**460**
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS	**2.5**
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018						**5.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**230**
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	**4.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39**	NS	NS	**0.33**
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018						**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS	**3.3**
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	**7.9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24**	NS	NS	**1.1**
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018						**9.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**35**	NS	NS	**0.61**
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	**0.50**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-DF}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+ Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																Metals					
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019						**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**2.8 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,DW}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)	280 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																			
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																			
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																			
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																			
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold indicates concentration above method detection limits.
Roman numerals indicate DEQ criterion number.
A = Total Metals sample collected for comparison to dissolved metals analytical results.
E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of NREPA.
G = Calculated value based on a hardness of 150 mg/L.
H = Analyzed outside of holding time.
J = Analyte detected below quantitation limit.
NS = Not Sampled or Not Analyzed.
Exceeds Generic Drinking Water Cleanup Criteria (II)
Exceeds Generic Drinking Water Cleanup Criteria (II) and the Generic Health-Based Drinking Water Value (E)
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Value (E)
Exceeds GSI Final Acute Value (FAV), also exceeds others

Notes in parentheses and standard abbreviations from MDEQ Operational Memorandum 1, Attachment 1, dated September 28, 2012 or MDEQ Guidance Document for the Vapor Intrusion Pathway, dated May 2013.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Non-residential Drinking Water Criteria (II)			ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500	210 (S)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																			
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																			
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																			
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																			
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold indicates concentration above method detection limits.
Roman numerals indicate DEQ criterion number.
A = Total Metals sample collected for comparison to dissolved metals analytical results.
E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of NREPA.
G = Calculated value based on a hardness of 150 mg/L.
H = Analyzed outside of holding time.
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NS = Not Sampled or Not Analyzed.
Exceeds Generic Drinking Water Cleanup Criteria (II)
Exceeds Generic Drinking Water Cleanup Criteria (II) and the Generic Health-Based Drinking Water Value (E)
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Value (E)
Exceeds GSI Final Acute Value (FAV), also exceeds others

Notes in parentheses and standard abbreviations from MDEQ Operational Memorandum 1, Attachment 1, dated September 28, 2012 or MDEQ Guidance Document for the Vapor Intrusion Pathway, dated May 2013.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Non-residential Drinking Water Criteria (II)			2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06	50 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA	2,500
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	NS	**0.71 J**
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019						<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**41 J**	NS	NS	**0.76 J**
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS	**0.67 J**
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**11**
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**49 J**	NS	NS	**0.31 J**
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**590**
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**530**
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019						<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS	**0.42 J**
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS	**1.7 J**

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A = Total Metals sample collected for comparison to dissolved metals analytical results.
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G = Calculated value based on a hardness of 150 mg/L.
H = Analyzed outside of holding time.
J = Analyte detected below quantitation limit.
NS = Not Sampled or Not Analyzed.
Exceeds Generic Drinking Water Cleanup Criteria (II)
Exceeds Generic Drinking Water Cleanup Criteria (II) and the Generic Health-Based Drinking Water Value (E)
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Value (E)
Exceeds GSI Final Acute Value (FAV), also exceeds others
Per the approval from the EPA, ground water analytical suite was modified prior to the November 2015 monitoring event.
Notes in parentheses and standard abbreviations from MDEQ Operational Memorandum 1, Attachment 1, dated September 28, 2012 or MDEQ Guidance Document for the Vapor Intrusion Pathway, dated May 2013.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	**7.3**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<25	<1.0	<1.0	<50	<50	**0.78 J**	<1.0	<5.0	<1.0	**6.9**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<25	<1.0	<1.0	<50	**6.9 J**	**0.81 J**	<1.0	<5.0	<1.0	**9.9**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<25	<1.0	<1.0	<50	<50	**0.57 J**	<1.0	<5.0	<1.0	**5.1**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.59 J**	<1.0	<5.0	<1.0	**3.5 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.60 J**	<1.0	<5.0	<1.0	**3.2 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<25	<1.0	<1.0	<50	<50	**0.35 J**	<1.0	<5.0	<1.0	**4.3 J**	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0		NS	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**1.0 J**	<5.0	**1.7 J**	<1.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.5 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	**4.2 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	**0.85 J**	<4.0	<5.0	<5.0	<5.0	<1.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**	<1.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.43 J**	**15**	**1,500**	<1.0	<1.0	**1.1 J**	**2.8 J**	**1.3 J**	<0.005	**17,000**	<3.0	<50	**130**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013						**67**	**0.21 J**	**23**	**1,700**	<1.0	**0.17 J**	**1.5 J**	**3.4 J**	**3.3 J**		**25,000**	**0.25 J**	<50	**120**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.27 J**	**23**	**1,900**	<1.0	**0.10 J**	**1.3 J**	**3.7 J**	**1.2 J**	<0.005	**25,000**	**0.076 J**	<50	**120**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013						**33 J**	**0.19 J**	**28**	**2,200**	<1.0	<1.0	**2.0 J**	**3.1 J**	**0.62 J**		**21,000**	**0.17 J**	<50	**86**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.21 J**	**27**	**2,200**	<1.0	**0.12 J**	**2.5 J**	**3.7 J**	<4.0	**0.0044 J**	**21,000**	<3.0	<50	**90**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014						**14 J**	**0.18 J**	**16 J**	**1,300**	**0.15 J**	<1.0	**0.78 J**	**2.6 J**	**2.4 J**		**17,000**	**0.13 J**	<50	**69**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<100	**0.19 J**	**16**	**1,600**	**0.19 J**	**0.18 J**	**2.7 J**	**3.0 J**	**2.0 J**	**6.7 J**	**18,000**	<3.0	<50	**65**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014						**120**	**0.23 J**	**26**	**1,700**	<1.0	**0.062 J**	**1.6 J**	**1.9 J**	**0.55 J**		**18,000**	<3.0	<50	**83**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.24 J**	**25**	**1,700**	<1.0	<1.0	**1.2 J**	**2.0 J**	<4.0	**3.9 J**	**17,000**	<3.0	<50	**80**
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014						**74**	**0.19 J**	**25**	**1,800**	<1.0	<1.0	**1.4 J**	**2.0 J**	**0.17 J**		**18,000**	<3.0	<50	**81**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.18 J**	**25**	**1,700**	<1.0	<1.0	**1.4 J**	**1.8 J**	<4.0	**4.6 J**	**17,000**	<3.0	<50	**78**
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015						**30 J**	**0.26 J**	**27**	**1,900**	<1.0	<1.0	**1.3 J**	**2.3 J**	**1.1 J**		**21,000**	<3.0	<50	**81**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.31 J**	**27**	**2,000**	<1.0	<1.0	**1.3 J**	**2.2 J**	**0.50 J**	<5.0	**21,000**	<3.0	<50	**81**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015						**210**	NS	NS	NS	NS	NS	NS	NS	NS		**23,000**	NS	**160,000**	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**59**
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**57**
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016						**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**57**
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**42 J**
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017						**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**42 J**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**41 J**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017						**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**73**
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**60**
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**48**
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**48**
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**170**
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**160**
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019						**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**130**
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**130**
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.29 J**	**14**	**900**	<1.0	<1.0	**1.1 J**	**4.2 J**	**0.39 J**		**9,300**	**0.12 J**	<50	**86**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.51 J**	**1.5 J**	**220**	<1.0	**0.047 J**	**0.86 J**	**1.5 J**	**3.2 J**	<0.005	**2,000**	**0.11 J**	<50	**67**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013						**120**	**0.28 J**	**3.9 J**	**300**	<1.0	**0.11 J**	**0.84 J**	**0.95 J**	**5.4**		**4,000**	**0.24 J**	<50	**44 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.2 J**	**0.40 J**	**3.8 J**	**320**	<1.0	**0.063 J**	**4.5 J**	**1.9 J**	**3.5 J**	<0.005	**4,000**	<3.0	<50	**46 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013						**190**	**0.33 J**	**3.3 J**	**260**	<1.0	<1.0	**1.1 J**	**1.0 J**	**2.1 J**		**3,800**	**0.30 J**	<50	**38 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.31 J**	**3.7 J**	**300**	<1.0	<1.0	**0.46 J**	**1.3 J**	**1.3 J**	<0.005	**3,900**	<3.0	<50	**36 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014						**450**	**0.22 J**	**0.76 J**	**130**	<1.0	<1.0	**0.48 J**	**0.84 J**	**2.6 J**		**2,000**	**0.79 J**	<50	**33 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**89 J**	**0.24 J**	**0.62 J**	**150 J**	<1.0	<1.0	<10	**1.5 J**	**2.1 J**	<0.005	**1,400**	**0.079 J**	<50	**23 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014						**610**	**0.27 J**	**4.1 J**	**310**	**0.23 J**	<1.0	**0.97 J**	**1.5 J**	**3.0 J**		**4,900**	**0.63 J**	<50	**130**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**	<1.0	<1.0	**0.35 J**	**1.9 J**	**2.4 J**	NS	**4,700**	<3.0	<50	**110**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014						**820**	**0.24 J**	**2.7 J**	**340**	<1.0	<1.0	**1.5 J**	**1.5 J**	**3.5 J**		**5,200**	**0.98 J**	<50	**74**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.21 J**	**2.2 J**	**350**	<1.0	<1.0	**0.32 J**	**1.3 J**	**2.2 J**	<5.0	**4,400**	<3.0	<50	**66**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015						**260**	**0.28 J**	**2.8 J**	**290**	<1.0	**0.11 J**	**0.75 J**	**0.74 J**	**2.4 J**		**4,600**	<3.0	<50	**37 J**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.41 J**	**1.7 J**	**370**	<1.0	**0.11 J**	**0.48 J**	**1.3 J**	**2.1 J**	<5.0	**5,000**	<3.0	<50	**39 J**
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015						**240**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**120,000**	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016						**85**	NS	NS	NS	NS	NS	NS	NS	NS		**1,800**	NS	NS	**13 J**
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**14 J**
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016						**48 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	ND	NS	**140**
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**140**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**9.1 J**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**2.0 J**	**6.0 J**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**1.7 J**	**5.6 J**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013	<0.2	**7.7 J**	<5.0	<0.20	<2.0	**1.7 J**	**3.4 J**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**1.8 J**	**3.4 J**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014	<0.2	**7.5 J**	**0.71 J**	<0.2	<2.0	**1.8 J**	**2.0 J**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<0.2	**7.5 J**	<5.0	<0.2	<2.0	**1.6 J**	**1.4 J**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.6 J**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-1[A](DUP)	W-R2330012-12214-JCH-027	12/2/2014	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.2 J**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**1.8 J**	<50
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015	<0.2	**5.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.3 J**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.5 J**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	<0.2	**15 J**	**0.91 J**	<0.20	<2.0	**0.60 J**	**3.7 J**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	<0.2	**4.9 J**	**0.98 J**	<0.20	**0.49 J**	**0.53 J**	**2.3 J**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<0.2	**5.6 J**	**3.6 J**	<0.20	<2.0	**0.75 J**	**4.4 J**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<0.2	**7.2 J**	**3.6 J**	<0.20	<2.0	**0.60 J**	**2.4 J**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013	<0.2	**6.4 J**	**5.6**	<0.20	<2.0	**0.88 J**	**4.3 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<0.2	**6.6 J**	**5.0 J**	<0.20	<2.0	**0.32 J**	**2.6 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013	<0.2	**4.8 J**	**1.2 J**	<0.20	<2.0	**1.1 J**	**5.9 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<0.2	**4.8 J**	**1.3 J**	<0.20	<2.0	**0.41 J**	**1.9 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014	**0.057 J**	**8.9 J**	**0.76 J**	<0.20	**0.22 J**	**1.6 J**	**8.0 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	**0.058 J**	**8.0 J**	**1.4 J**	<0.20	<2.0	**0.56 J**	**3.8 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014	<0.2	**7.8 J**	**1.5 J**	<0.20	<2.0	**2.1 J**	**9.1 J**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	<0.2	**7.0 J**	**1.6 J**	<0.20	<2.0	**0.56 J**	**4.2 J**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	<0.2	**4.7 J**	**1.3 J**	**0.055 J**	<2.0	**0.65 J**	**4.5 J**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<0.2	**5.9 J**	**2.2 J**	**0.081 J**	<2.0	<4.0	<50
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-031915-JCH-015	3/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	<0.2	**2.4 J**	**0.46 J**	<0.20	<2.0	**0.75 J**	**1.9 J**
MW-3	W-R2330021-110416-JPM-029	11/4/2016	<0.2	**2.4 J**	<5.0	<0.025	<2.0	**0.73 J**	**2.4 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<25	<1.0	<1.0	<50	**12 J**	**0.39 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<25	<1.0	<1.0	<50	**8.5 J**	**0.43 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<25	<1.0	<1.0	<50	**6.9 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<25	<1.0	<1.0	<50	**15 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	<10	**1.2 J**	<4.0	**0.99 J**	<5.0	<5.0	<1.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	<10	**1.2 J**	<4.0	**0.93 J**	<5.0	<5.0	<1.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**260**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017						**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**250**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017						**78**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**93**
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**88**
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018						**470**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**240**
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**230**
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**200**
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,500**	NS	NS	**200**
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019						**1,900**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**300**
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**260**
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**7.6 J**	**0.097 J**	**1.4 J**	**470**	<1.0	<1.0	**1.1 J**	**1.2 J**	<4.0	<0.005	**14,000**	<3.0	<50	**56**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.14 J**	**1.2 J**	**480**	<1.0	<1.0	**0.85 J**	**1.3 J**	**0.26 J**	<0.005	**15,000**	**0.034 J**	<50	**55**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.21 J**	<5.0	**410**	<1.0	<1.0	**0.84 J**	**2.7 J**	<4.0	<0.005	**11,000**	<3.0	<50	**490**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013						**4.5 J**	**0.22 J**	<5.0	**480**	<1.0	**0.29 J**	**0.80 J**	**2.4 J**	**2.7 J**		**16,000**	<3.0	<50	**77**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**170**	**0.12 J**	<5.0	**490**	<1.0	**0.29 J**	**1.4 J**	**1.5 J**	**2.6 J**	<0.005	**16,000**	**0.30 J**	<50	**80**
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013						**490**	**0.23 J**	**1.7 J**	**460**	<1.0	<1.0	**2.9 J**	**2.2 J**	**1.4 J**		**16,000**	**1.2 J**	<50	**96**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.19 J**	**1.1 J**	**460**	<1.0	**0.34 J**	**0.78 J**	**2.0 J**	**0.65 J**	<0.005	**15,000**	<3.0	<50	**70**
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014						**2,800**	**0.40 J**	**5.1**	**480**	**0.095 J**	<1.0	**4.5 J**	**5.7 J**	**9.6 J**		**20,000**	**7.5**	<50	**700**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.23 J**	**2.9 J**	**450**	<1.0	<1.0	**0.37 J**	**2.4 J**	**2.0 J**	**3.4 J**	**15,000**	<3.0	<50	**410**
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014						**500**	**0.35 J**	**2.8 J**	**430**	<1.0	<1.0	**1.3 J**	**2.0 J**	**1.9 J**		**14,000**	**0.71 J**	<50	**110**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.5 J**	**0.37 J**	**2.5 J**	**410**	<1.0	<1.0	**0.54 J**	**1.8 J**	**0.95 J**	<5.0	**12,000**	<3.0	<50	**100**
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015						**3,100**	**0.33 J**	**2.3 J**	**500**	<1.0	<1.0	**4.7 J**	**3.4 J**	**7.8**		**20,000**	**4.4**	<50	**140**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.1 J**	**0.23 J**	**0.97 J**	**450**	<1.0	<1.0	**0.55 J**	**1.7 J**	**1.1 J**	<5.0	**16,000**	<3.0	<50	**69**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015						**84**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016						**81**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**490**
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**560**
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016						**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**72**
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017						**21 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**760**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**730**
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**62**
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**680**
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	**8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**690**
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018						**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**71**
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**69**
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019						**82**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**810**
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**790**
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019						**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**790**
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**810**
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.17 J**	**31**	**1,300**	<1.0	<1.0	**1.5 J**	**2.3 J**	<4.0	<0.005	**5,300**	**0.3 J**	<50	**56**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.27 J**	**31**	**1,300**	<1.0	<1.0	**1.9 J**	**2.3 J**	<4.0	<0.005	**5,400**	**0.061 J**	<50	**58**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013						**330**	**2.2 J**	**34**	**1,500**	<1.0	**0.84 J**	**2.1 J**	**2.3 J**	**3.5 J**		**5,300**	**2.1 J**	<50	**56**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.27 J**	**31**	**1,400**	<1.0	**0.16 J**	**1.6 J**	**3.1 J**	**2.1 J**	<0.005	**4,300**	**0.069 J**	<50	**50**
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013						**420**	**0.26 J**	**40**	**1,400**	<1.0	**0.98 J**	**2.6 J**	**2.6 J**	**3.5 J**		**6,500**	**4.9 J**	<50	**81 J**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.20 J**	**38**	**1,300**	<1.0	**0.57 J**	**2.9 J**	**2.6 J**	<4.0	**0.0016**	**5,900**	<3.0	<50	**71 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**0.85 J**	**1.1 J**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.0 J**	**2.4 J**
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017	<0.2	**4.0 J**	**1.0 J**	<0.20	<2.0	**1.4 J**	**3.5 J**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**2.1 J**	**7.5 J**
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.94 J**	**2.8 J**
MW-3	W-R2330022-102417-DMS-008	10/23/2017	<0.2	**16 J**	**1.4 J**	<0.20	**0.12 J**	**8.5**	**35 J**
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**0.74 J**	**20 J**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<0.2	**6.2 J**	<5.0	<0.20	<2.0	**2.2 J**	**6.5 J**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<0.2	**5.4 J**	<5.0	<0.20	<2.0	**1.0 J**	**3.1 J**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013	<0.2	**11 J**	<5.0	**0.029 J**	<2.0	**6.6**	**23 J**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.71 J**	<50
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330009-111213-ACN-003	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330012-032714-ACN-006	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330012-12114-JCH-020	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	<0.2	**3.5 J**	**0.69 J**	<0.20	<2.0	**1.3 J**	**1.1 J**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<0.2	**3.9 J**	**0.67 J**	<0.20	**0.069 J**	**1.2 J**	**1.1 J**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015	<0.2	**4.9 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**10 J**
MW-4	W-R2330017-112015-JPM-033	11/20/2015	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**3.1 J**
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**2.5 J**	**11 J**
MW-4	W-R2330021-042116-AFB-028	4/21/2016	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.4 J**
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	<0.2	**9.2 J**	<5.0	**0.051 J**	<2.0	**4.2**	**26 J**
MW-4	W-R2330021-110416-JPM-036	11/4/2016	<0.2	**6.5 J**	**0.70 J**	<0.20	<2.0	**1.3 J**	**0.65 J**
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	<0.2	**3.4 J**	<5.0	**0.029 J**	<2.0	**2.1 J**	**6.0 J**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	<0.2	**3.4 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**2.2 J**	**9.3 J**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-111213-ACN-004	11/12/2013	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<25	<1.0	<1.0	<50	**5.1 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<25	<1.0	<1.0	<50	**11 J**	**4.9**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<25	<1.0	<1.0	<50	<50	**2.8**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<25	<1.0	<1.0	<50	<50	**4.6**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<25	<1.0	<1.0	<50	<50	**3.2**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	**1.3 J**	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<25	<1.0	<1.0	<50	<50	**2.0**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	**0.58 J**	<1.0	<5.0	<1.0	<1.0	<3.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.79 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**	<1.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.47 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014						**1,100**	**0.50 J**	**40**	**1,300**	**0.25 J**	**0.49 J**	**3.3 J**	**3.1 J**	**8.0 J**		**8,100**	**12 J**	<50	**93**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**0.25 J**	**31**	**1,200**	<1.0	<1.0	**0.61 J**	**2.6 J**	**1.0 J**	**2.6 J**	**4,500**	**0.34**	<50	**57**
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014						**280**	**0.20 J**	**33**	**1,400**	<1.0	**2.1**	**1.7 J**	**2.0 J**	**0.86 J**		**5,500**	**1.4 J**	<50	**79**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.4 J**	**0.19 J**	**32**	**1,400**	<1.0	**0.026 J**	**1.7 J**	**1.9 J**	<4.0	<5.0	**5,000**	**2.4 J**	<50	**73**
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015						**360**	**0.24 J**	**34**	**1,400**	<1.0	**5.3**	**2.2 J**	**2.4 J**	**3.9 J**		**6,200**	**2.3 J**	<50	**81**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.29 J**	**30**	**1,500**	<1.0	<1.0	**1.3 J**	**2.6 J**	**0.98 J**	<5.0	**5,200**	<3.0	<50	**73**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015						**3,100**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	**150,000**	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	**140,000**	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016						**2,800**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS	**150**
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**58**
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016						**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**79**
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**52**
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**72**
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**50**
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017						**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**56**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**50**
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017						**890**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS	**76**
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**62**
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018						**590**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**440**
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019						**700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**120**
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**87**
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.16 J**	**9.4**	**580**	<1.0	<1.0	**1.0 J**	**2.4 J**	**0.31 J**	<0.005	**26,000**	**0.057 J**	<50	**500**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**7.5 J**	**0.15 J**	**3.7 J**	**480**	<1.0	<1.0	**1.6 J**	**1.5 J**	<4.0	<0.005	**18,000**	**0.31 J**	<50	**640**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013						**47 J**	**0.11 J**	**6.0**	**540**	<1.0	**0.19 J**	**0.94 J**	**1.9 J**	**4.40**		**22,000**	**0.29 J**	<50	**790**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.8 J**	**0.15 J**	**5.5**	**550**	<1.0	**0.25 J**	**0.75 J**	**2.4 J**	**3.5 J**	<0.005	**21,000**	**0.063 J**	<50	**750**
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013						**200 J**	**0.16 J**	**5.4 J**	**520**	<1.0	**0.25 J**	**1.8 J**	**1.7 J**	**1.4 J**		**18,000**	**0.55 J**	<50	**430**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**160**	**0.14 J**	**5.5 J**	**520**	<1.0	**0.43 J**	**2.2 J**	**1.7 J**	**1.3 J**	<0.005	**18,000**	**0.41 J**	<50	**430**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014						**76**	**0.15 J**	**3.0 J**	**460**	<1.0	<1.0	**0.56 J**	**2.0 J**	**2.0 J**		**11,000**	**0.31 J**	<50	**410**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.6 J**	**0.17 J**	**3.4 J**	**460**	<1.0	<1.0	**0.37 J**	**1.4 J**	**1.9 J**	**1.3 J**	**10,000**	<3.0	<50	**410**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014						**320**	**0.17 J**	**4.5 J**	**570**	<1.0	**0.068 J**	**1.7 J**	**1.1 J**	**0.85 J**		**18,000**	<3.0	<50	**420**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.6 J**	**0.17 J**	**4.8 J**	**540**	<1.0	<1.0	**0.53 J**	**1.0 J**	<4.0	<5.0	**17,000**	<3.0	<50	**410**
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015						**300**	**0.35 J**	**3.1 J**	**430**	<1.0	**0.098 J**	**1.5 J**	**1.7 J**	**4.1**		**12,000**	**1.1 J**	<50	**500**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.41 J**	**1.9 J**	**360**	<1.0	<1.0	**0.42 J**	**1.5 J**	**2.0 J**	<5.0	**11,000**	<3.0	<50	**470**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015						**30 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**130,000**	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016						**100**	NS	NS	NS	NS	NS	NS	NS	NS		**5,800**	NS	NS	**320**
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	**7.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**360**
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016						**76**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**500**
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**490**
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017						**83**										**3,600**	NS	NS	**960**
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	**5.1 J**										**3,300**	NS	NS	**910**
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017						**550**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**410**
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**360**
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**370**
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**370**
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018						**32**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS	**260**
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**250**
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018						**U**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**U**	NS	NS	**U**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330012-032814-ACN-008	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330012-12214-JCH-025	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	<0.2	**3.8 J**	**0.051 J**	<0.025	<2.0	**1.2 J**	**1.5 J**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**0.99 J**	**2.1 J**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.8 J**
MW-5	W-R2330017-112015-JPM-031	11/20/2015	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.2 J**
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.7 J**
MW-5	W-R2330021-042116-JPM-024	4/21/2016	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.3 J**
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	<0.2	**11 J**	<5.0	<0.20	**0.084 J**	**1.2 J**	**5.0 J**
MW-5	W-R2330021-110216-AEM-013	11/2/2016	<0.2	**12 J**	<5.0	<0.20	<2.0	**0.99 J**	**3.0 J**
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016	<0.2	**4.9 J**	<5.0	**0.027 J**	<2.0	**2.2 J**	**14 J**
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	<0.2	**4.2 J**	<5.0	**0.020 J**	<2.0	**1.8 J**	<50
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	<0.2	**15 J**	<5.0	<0.20	<2.0	**1.9 J**	**42 J**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.84 J**	**33 J**
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330009-050213-MJF-012	5/2/2013	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	<0.2	**11 J**	<5.0	<0.20	<2.0	**1.2 J**	**40 J**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.4 J**	**44 J**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.2 J**	**39 J**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.2 J**	**22 J**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.3 J**	**6.6 J**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<0.2	**18 J**	**0.84J**	<0.20	**0.22 J**	**1.2 J**	**15 J**
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015	<0.2	**16 J**	<5.0	<0.20	<2.0	**1.0 J**	**8.2 J**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<0.2	**8.4 J**	<5.0	**0.022 J**	<2.0	**2.1 J**	**6.3 J**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-6	W-R2330017-111915-JPM-023	11/19/2015	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.4 J**	**19 J**
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.2 J**	**4.4 J**
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.0 J**
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017	<0.2	**6.8 J**	<5.0	<0.20	<2.0	**1.3 J**	**4.0 J**
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	<0.2	**6.6 J**	<5.0	<0.20	<2.0	**0.91 J**	**3.0 J**
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<25	<1.0	<1.0	<50	**5.5 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<25	<1.0	<1.0	<50	<50.0	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.95 J**	<5.0	<5.0	<1.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.18 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																		Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**420**
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018						**5.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**400**
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	**7.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**410**
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**740**
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	**9.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS	**660**
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.4 J**	**0.84 J**	**0.87 J**	**450**	<1.0	<1.0	**1.4 J**	**3.4 J**	**2.1 J**	<0.005	**3,400**	**0.074 J**	<50	**530**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013						**39 J**	**0.39 J**	**18**	**520**	<1.0	**0.43 J**	**1.4 J**	**3.8 J**	**2.2 J**		**8,100**	**0.47 J**	<50	**910**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.48 J**	**17**	**520**	<1.0	**0.21 J**	**1.2 J**	**4.3 J**	**3.1 J**	<0.005	**7,700**	**0.096 J**	<50	**880**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013						**21 J**	**0.58 J**	**7.0 J**	**370**	<1.0	**1.2 J**	**1.3 J**	**3.6 J**	**2.4 J**		**5,700**	**0.31 J**	<50	**490**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.57 J**	**6.4 J**	**380**	<1.0	**0.92 J**	**1.3 J**	**4.1 J**	**1.5 J**	**0.0037 J**	**5,600**	<3.0	<50	**480**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014						**11 J**	**0.18 J**	**3.5 J**	**330**	<1.0	**0.54 J**	**0.72 J**	**3.8 J**	**7.9**		**8,900**	**0.39 J**	<50	**560**
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**3.6 J**	**0.16 J**	**3.4 J**	**370**	<1.0	<1.0	<2.0	**3.2 J**	**4.4**	<0.005	**9,600**	<3.0	<50	**530**
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014						**20 J**	**0.18 J**	**4.5 J**	**420**	<1.0	**0.16 J**	**0.98 J**	**2.9 J**	**0.69 J**		**10,000**	<3.0	<50	**690**
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.4 J**	**0.18 J**	**3.2 J**	**420**	<1.0	<1.0	**0.81 J**	**2.5 J**	<4.0	<5.0	**9,400**	<3.0	<50	**670**
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015						**130**	**0.21 J**	**2.9 J**	**320**	<1.0	**0.39 J**	**1.1 J**	**3.1 J**	**2.9 J**		**8,500**	**0.42 J**	<50	**440**
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.1 J**	**0.26 J**	**2.4 J**	**330**	<1.0	<1.0	**0.87 J**	**3.2 J**	**1.6 J**	<5.0	**8,600**	<3.0	<50	**450**
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015						**69**	NS	NS	NS	NS	NS	NS	NS	NS		**7,500**	NS	**150,000**	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	**150,000**	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016						**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	NS	**500**
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**470**
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016						**23 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**340**
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	NS	**320**
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017						**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**490**
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**470**
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017						**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**760**
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**740**
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018						**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS	**610**
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS	**600**
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018						**62**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**1,000**
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	**5.8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**950**
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019						**67**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**670**
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	**4.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**690**
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.21 J**	**1.2 J**	**380**	<1.0	<1.0	**0.56 J**	**1.5 J**	<4.0	<0.005	**6,200**	<3.0	<50	**180**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013						**51**	**0.16 J**	**4.1 J**	**470**	<1.0	**0.12 J**	**1.2 J**	**1.5 J**	**3.8 J**		**8,200**	**0.80 J**	<50	**200**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	**0.20 J**	**3.9 J**	**460**	<1.0	**0.098 J**	**0.94 J**	**2.3 J**	**1.6 J**	<0.005	**8,100**	**0.074 J**	<50	**200**
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013						**98 J**	**0.12 J**	**3.7 J**	**420**	<1.0	**0.50 J**	**1.3 J**	**1.6 J**	**1.6 J**		**7,700**	**0.34 J**	<50	**200**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.13 J**	**3.6 J**	**440**	<1.0	**0.49 J**	**2.0 J**	**1.8 J**	**1.5 J**	**0.0015 J**	**7,500**	<3.0	<50	**210**
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014						**1,200**	**0.11 J**	**4.7 J**	**370**	<1.0	**2.1**	**2.7 J**	**2.4 J**	**4.7**		**8,000**	**4.7**	<50	**400**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	<2.0	**3.3 J**	**350**	<1.0	<1.0	**0.34 J**	**1.3 J**	**0.50 J**	<5.0	**4,900**	<3.0	<50	**330**
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015						**440**	<2.0	**2.0 J**	**330**	<1.0	**0.73 J**	**3.2 J**	**1.2 J**	**2.7 J**		**7,100**	**1.9 J**	<50	**210**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.18 J**	**1.3 J**	**330**	<1.0	<1.0	**0.47 J**	**1.3 J**	**1.5 J**	<5.0	**5,900**	<3.0	<50	**200**
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015						**540**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	**92,000**	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**91,000**	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS	**200**
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS	**200**
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016						**50 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS	**2,800**
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	**8.70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**290**
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017						**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS	**310**
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS	**320**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.5 J**	**3.2 J**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.4 J**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<0.2	**19 J**	<5.0	<0.20	<2.0	**5.2**	**18 J**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013	<0.2	**10 J**	<5.0	<0.20	<2.0	**0.85 J**	**5.8 J**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**2.0 J**	**11 J**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.74 J**	<50
MW-7	W-R2330012-032614-ACN-001	3/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330012-112614-JCH-015	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-031715-JCH-013	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**7.5 J**
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.6 J**
MW-7	W-R2330021-041916-JPM-007	4/19/2016	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.4 J**	**2.9 J**
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	<0.2	**6.9 J**	<5.0	<0.20	**0.14 J**	**1.5 J**	**3.7 J**
MW-7	W-R2330021-110116-AEM-007	11/1/2016	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.5 J**	**2.5 J**
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-7	W-R2330022-042517-DMS-013	4/25/2017	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.1 J**
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	<0.2	**3.2 J**	<5.0	**0.024 J**	<2.0	**1.9 J**	**3.7 J**
MW-7	W-R2330022-102717-DMS-028	10/27/2017	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**11 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**3.9 J**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-111213-ACN-005	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330012-112614-JCH-014	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<0.2	**4.9 J**	**0.66 J**	<0.20	<2.0	**2.3 J**	**2.4 J**
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-8	W-R2330017-111615-AEP-004	11/16/2015	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.2 J**
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	<0.2	**7.4 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**8.5 J**
MW-8	W-R2330021-041916-JPM-008	4/19/2016	<0.2	**7.4 J**	**0.79 J**	<0.20	<2.0	**2.2 J**	**4.9 J**
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**3.0 J**	**7.0 J**
MW-8	W-R2330021-110116-AEM-008	11/1/2016	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.4 J**
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<25	<1.0	<1.0	<50	<50	**0.36 J**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016																			
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<25	<1.0	<1.0	<50	**4.3 J**	**8.6**	<1.0	<5.0	**25**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.5**	<1.0	<5.0	**24**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**23**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**13**	<1.0	<5.0	**36**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**12**	<1.0	<5.0	**35**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**24**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<25	<1.0	<1.0	<50	<50	**7.8**	<1.0	<5.0	**38**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**28**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**27**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.91 J**	**0.92 J**	**1.7 J**	<1.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016																			
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<10	<10	<5.0	<10	<10	**0.86 J**	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**1.0 J**	<5.0	**1.7 J**	<1.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	**0.28 J**	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.1 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.8 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018						**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**			**1.8**
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	**8.80**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,400**			**440**
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.6 J**	**0.2 J**	**44**	**1,700**	<1.0	<1.0	**1.9 J**	**2.4 J**	**0.71 J**	<0.005	**28,000**	**0.053 J**	<50	**760**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013						**13 J**	**0.13 J**	**52**	**1,300**	<1.0	**0.22 J**	**1.0 J**	**1.4 J**	**2.1 J**		**31,000**	**0.17 J**	<50	**440**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**52**	**1,300**	<1.0	**0.24 J**	**0.91 J**	**2.2 J**	**1.7 J**	<0.005	**30,000**	**0.068 J**	<50	**430**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013						**43 J**	**0.16 J**	**59**	**2,100**	<1.0	<1.0	**2.0 J**	**1.7 J**	<4.0		**30,000**	**0.30 J**	<50	**400**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.17 J**	**60**	**2,200**	<1.0	<1.0	**1.0 J**	**1.7 J**	<4.0	<0.005	**29,000**	**0.083 J**	<50	**340**
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014						**190**	**0.19 J**	**51**	**1,700**	<1.0	<1.0	**1.0 J**	**2.2 J**	**2.6 J**		**34,000**	**0.99 J**	<50	**600**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.15 J**	**47**	**1,900**	<1.0	<1.0	**0.70 J**	**2.2 J**	**1.4 J**	**2.1 J**	**34,000**	**0.21 J**	<50	**570**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014						**42 J**	**0.18 J**	**59**	**1,800**	<1.0	**0.050 J**	**1.0 J**	**1.2 J**	<4.0		**31,000**	<3.0	<50	**330**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.25 J**	**62**	**1,900**	<1.0	<1.0	**1.0 J**	**1.4 J**	<4.0	<5.0	**30,000**	<3.0	<50	**300**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015						**260**	**0.19 J**	**49**	**1,700**	<1.0	**0.094 J**	**1.4 J**	**2.0 J**	**3.9 J**		**34,000**	**1.1 J**	<50	**390**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.0 J**	**0.34 J**	**46**	**1,800**	<1.0	<1.0	**0.83 J**	**1.9 J**	**1.4 J**	<5.0	**33,000**	<3.0	<50	**370**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015						**510**	NS	NS	NS	NS	NS	NS	NS	NS		**33,000**	NS	**120,000**	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32,000**	NS	**130,000**	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS	**500**
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33,000**	NS	NS	**540**
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016						**270**	NS	NS	NS	NS	NS	NS	NS	NS		**29,000**	NS	NS	**260**
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**240**
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017						<50	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS	**240**
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017						**55**	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS	**220**
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**220**
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**30,000**	NS	NS	**230**
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018						**130**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	NS	**98**
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**230**
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019						**37**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS	**270**
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**260**
MW-10	W-R2330009-050113-MJF-003	5/1/2013	**1.1 J**	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.19 J**	**7.4**	**1,800**	<1.0	<1.0	**1.8 J**	**2.6 J**	<4.0	<0.005	**17,000**	**0.054 J**	<50	**350**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013						**26 J**	**0.27 J**	**6.5**	**1,700**	<1.0	**0.29 J**	**2.2 J**	**3.1 J**	**3.4 J**		**17,000**	**7.3**	<50	**600**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.1 J**	**0.31 J**	**6.7**	**1,800**	<1.0	**0.22 J**	**2.0 J**	**3.5 J**	**2.7 J**	<0.005	**17,000**	**2.4 J**	<50	**600**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013						**25 J**	**0.26 J**	**6.7**	**1,700**	<1.0	**0.40 J**	**2.0 J**	**3.1 J**	3.4 J		**17,000**	**7.2**	<50	**580**
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.25 J**	**6.4**	**1,700**	<1.0	**0.27 J**	**2.0 J**	**3.1 J**	**2.4 J**	<0.005	**17,000**	**2.7 J**	<50	**600**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013						**26 J**	**0.24 J**	**10**	**1,900**	<1.0	**1.7 J**	**3.7 J**	**3.3 J**	**1.8 J**		**2,300**	**2.8 J**	<50	**460**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.23 J**	**9.7 J**	**1,900**	<1.0	**1.4 J**	**2.7 J**	**3.8 J**	**1.1 J**	**0.0019 J**	**2,100**	**0.16 J**	<50	**480**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013						**26 J**	**0.23 J**	**10**	**1,900**	<1.0	**1.7 J**	**2.9 J**	**3.4 J**	**1.4 J**		**2,300**	**2.8 J**	<50	**450**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.8 J**	**0.20 J**	**9.2 J**	**1,900**	<1.0	**1.7 J**	**2.6 J**	**3.4 J**	**1.1 J**	**0.0023 J**	**2,100**	**0.18 J**	<50	**470**
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014						**32 J**	**0.20 J**	**6.6 J**	**1,700**	<1.0	<1.0	**1.6 J**	**3.0 J**	**1.9 J**		**24,000**	**1.6 J**	<50	**550**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**2.0 J**	**0.22 J**	**6.5 J**	**1,700**	<1.0	<1.0	**0.79 J**	**2.5 J**	**3.3 J**	**2.4 J**	**24,000**	**0.14 J**	<50	**540**
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014						**45 J**	**0.23 J**	**7.1 J**	**1,800**	<1.0	<1.0	**1.6 J**	**2.9 J**	**1.5 J**		**25,000**	**1.7 J**	<50	**550**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**6.8 J**	**1,700**	<1.0	<1.0	<10	**3.0 J**	**1.1 J**	**4.1 J**	**23,000**	**0.14 J**	<50	**530**
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014						**21 J**	**0.23 J**	**7.1**	**2,100**	<1.0	**0.034 J**	**2.3 J**	**2.2 J**	<4.0		**22,000**	**2.2 J**	<50	**420**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.2 J**	**0.22 J**	**8.4**	**2,100**	<1.0	<1.0	**2.3 J**	**2.4 J**	<4.0	<5.0	**23,000**	<3.0	<50	**430**
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015						**24 J**	**0.29 J**	**7.3**	**2,500**	<1.0	**0.028 J**	**2.5 J**	**2.3 J**	**0.51 J**		**23,000**	**2.5 J**	<50	**450**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.26 J**	**7.0**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.40 J**	<5.0	**22,000**	<3.0	<50	**420**
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015						**26 J**	**0.21 J**	**6.6**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.65 J**		**21,000**	**2.1 J**	<50	**420**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.24 J**	**7.2**	**2,400**	<1.0	<1.0	**2.6 J**	**2.7 J**	**0.27 J**	<5.0	**23,000**	**0.36 J**	<50	**430**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015						**31 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**160,000**	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.0 J**	**3.8 J**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.0 J**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**2.1 J**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013	<0.2	**9.8 J**	<5.0	<0.20	**0.24 J**	**1.8 J**	**3.0 J**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<0.2	**7.9 J**	**0.84 J**	<0.20	<2.0	**2.3 J**	**2.1 J**
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014	<0.2	**8.0 J**	**0.83 J**	<0.20	<2.0	**1.9 J**	<50
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	**3.7 J**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	<50
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<0.2	**3.9 J**	<5.0	<0.20	<2.0	**2.8 J**	**3.4 J**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**2.3 J**	<50
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 J**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	<0.2	**3.7 J**	<5.0	**0.021 J**	<2.0	**2.7 J**	**3.3 J**
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	<0.2	**1.2 J**	**1.7 J**	<0.20	<2.0	<4.0	**2.0 J**
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	<0.2	**2.2 J**	**0.74 J**	<0.20	<2.0	**0.24 J**	**2.5 J**
MW-9	W-R2330022-102717-DMS-030	10/27/2017	<0.2	**2.2 J**	**1.1 J**	<0.20	<2.0	**0.23 J**	**2.2 J**
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<0.2	**4.8 J**	**1.1 J**	<0.20	**0.24 J**	**2.1 J**	**8.6 J**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013	<0.2	**3.2 J**	**0.83 J**	<0.20	<2.0	<4.0	**3.1 J**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<0.2	**3.4 J**	**1.3 J**	<0.20	<2.0	**0.34 J**	**0.91 J**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<0.2	**3.3 J**	**0.83 J**	<0.20	**0.098 J**	**0.28 J**	<50.0
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	**0.062 J**	**2.5 J**	<5.0	<0.20	<2.0	**0.28 J**	**2.8 J**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013	**0.064 J**	**2.6 J**	<5.0	<0.20	<2.0	**0.20 J**	**3.2 J**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.48 J**	**7.3 J**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<0.2	**2.9 J**	**0.93 J**	<0.20	<2.0	<4.0	**3.5 J**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<0.2	**3.5 J**	**0.92 J**	<0.20	<2.0	<4.0	<50
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014	<0.2	**1.7 J**	**1.0 J**	<0.20	<2.0	<4.0	<50
MW-10	W-R2330012-032814-ACN-010	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330012-12214-JCH-028	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**8.8 J**
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.7 J**	**4.5 J**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<0.2	**4.2 J**	<5.0	<0.20	<2.0	**1.2 J**	**2.7 J**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	<0.2	**4.5 J**	<5.0	<0.20	**0.12 J**	**1.3 J**	**3.4 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<25	<1.0	**0.48 J**	<50	<50	**12**	<1.0	<5.0	**44**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0	<3.0
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<25	<1.0	<1.0	<50	**5.5 J**	**7.4**	<1.0	<5.0	**24**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<25	<1.0	**.41 J**	<50	**1.8 J**	**11.0**	<1.0	<5.0	**41**	<5.0	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<25	<1.0	<1.0	<50	**7.4 J**	**7.2**	<1.0	<5.0	**32**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<25	<1.0	<1.0	<50	**3.5 J**	**9.8**	<1.0	<5.0	**34**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0	<3.0
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-10	W-R2330024-042418-JPM-017	4/24/2018	<25	<1.0	<1.0	<50	**3.5 J**	**6.4**	<1.0	<5.0	**30**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0	<3.0
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	<0.52	<0.32	<0.35	<0.52	4.3 J	4.4	<0.49	<0.49	29	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201																			
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.92 J**	<5.0	**1.7 J**	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201																			
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.2 J**	<1.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<10	<10	<5.0	<10	<10	<5.0	**0.24 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	NS	**420**
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS	**470**
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016						**32 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**420**
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**430**
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**430**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**410**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**470**
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**470**
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018						**75**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018						**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**550**
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**570**
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**500**
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**500**
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.6 J**	**0.13 J**	<5.0	**26**	<1.0	<1.0	**0.69 J**	**0.41 J**	**0.76 J**	<0.005	**13 J**	**0.0079 J**	<50	**7.4 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013						**22 J**	**0.079 J**	<5.0	**57 J**	<1.0	<1.0	**0.49 J**	**0.51 J**	**2.7 J**		**270**	<3.0	<50	**58**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.12 J**	<5.0	**61 J**	<1.0	<1.0	**0.53 J**	**0.93 J**	**2.0 J**	<0.005	**270**	<3.0	<50	**61**
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013						**730**	**0.66 J**	**1.0 J**	**38 J**	<1.0	<1.0	**3.1 J**	**1.2 J**	**3.0 J**		**1,600**	**1.3 J**	<50	**75**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**22 J**	**0.30 J**	**0.65 J**	**47 J**	<1.0	<1.0	**0.40 J**	**0.91 J**	**0.82 J**	<0.005	**150 J**	<3.0	<50	**60**
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014						**180**	**0.12 J**	<5.0	**38 J**	<1.0	<1.0	**0.55 J**	**0.74 J**	**1.5 J**		**380**	**0.37 J**	<50	**52**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.096 J**	<5.0	**47 J**	<1.0	<1.0	<10	**0.80 J**	**0.96 J**	<0.005	**110 J**	<3.0	<50	**54**
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014						**26 J**	**0.10 J**	**1.2 J**	**72 J**	<1.0	**0.047 J**	<10	**0.57 J**	**0.76 J**		**500**	<3.0	<50	**68**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	**2.7 J**	**0.15 J**	**1.1 J**	**75 J**	<1.0	<1.0	<10	**1.1 J**	**1.4 J**	NS	**500**	<3.0	<50	**68**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014						**47 J**	<2.0	<5.0	**58 J**	<1.0	**0.087 J**	**0.23 J**	**0.67 J**	**4.3**		**220**	<3.0	<50	**110**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	<2.0	**0.65 J**	**69 J**	<1.0	**0.052 J**	<10	**0.67 J**	**1.1 J**	<5.0	**320**	<3.0	<50	**96**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015						**65**	<2.0	<5.0	**20 J**	<1.0	**0.39 J**	**2.5 J**	**0.30 J**	**1.2 J**		**110 J**	<3.0	<50	**130**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.17 J**	<5.0	**20 J**	<1.0	**0.29 J**	**0.16 J**	**0.47 J**	**0.78 J**	<5.0	<200	<3.0	<50	**4.8 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015						**17 J**	NS	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**29,000**	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	**29,000**	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016						**390**	NS	NS	NS	NS	NS	NS	NS	NS		**700**	NS	NS	**310**
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS	**19 J**
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201						**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**190**
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**140**
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017						**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**95**
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	**17 J**
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017						**69**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**180**
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS	**160**
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018						**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**85**
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS	**12**
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018						**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2000**	NS	NS	**350**
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	**83**
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019						**660**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**420**
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS	**8.4**
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.22 J**	**1.4 J**	**1,100**	<1.0	<1.0	**1.9 J**	**4.0 J**	<4.0	<0.005	**15,000**	**0.17 J**	<50	**1,500**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013						**170**	**0.15 J**	**1.2 J**	**1,400**	<1.0	**0.27 J**	**1.2 J**	**1.4 J**	**6.1**		**18,000**	**0.36 J**	<50	**470**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.26 J**	**0.93 J**	**1,500**	<1.0	**0.30 J**	**0.73 J**	**2.4 J**	**3.6 J**	<0.005	**17,000**	**0.062 J**	<50	**420**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013						**89**	**0.16 J**	**0.79 J**	**1,600**	**0.13 J**	**0.33 J**	**1.0 J**	**1.5 J**	**1.5 J**		**12,000**	**0.26 J**	<50	**210**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.16 J**	**0.85 J**	**1,500**	<1.0	**0.68 J**	**0.99 J**	**1.9 J**	**1.3 J**	<0.005	**12,000**	<3.0	<50	**190**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.97 J**	**2.2 J**
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**1.1 J**	**4.1 J**
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**5.8 J**
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	<0.2	**3.5 J**	<5.0	**0.040 J**	<2.0	**4.5**	**8.1 J**
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<0.2	**1.7 J**	<5.0	**0.064 J**	<2.0	**1.0 J**	<50
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**2.9 J**	**13 J**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.93 J**	**4.5 J**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-111213-ACN-001	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**4.3**	**7.9 J**
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014	<0.2	**1.2 J**	<5.0	<0.20	<2.0	**0.65 J**	**1.7 J**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	**0.064 J**	**4.4 J**	<5.0	<0.20	<2.0	**2.8 J**	**7.9 J**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014	**0.064 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.36 J**	**3.1 J**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	**0.063 J**	**4.7 J**	<5.0	<0.20	<2.0	**2.9 J**	**7.7 J**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015	**0.058 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.32 J**	**2.9 J**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<0.2	**2.2 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015	<0.2	**0.74 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-11	W-R2330017-111915-AEP-019	11/19/2015	<0.2	**6.4 J**	<5.0	<0.20	<2.0	**3.7 J**	**11 J**
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.2 J**
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	<0.2	**15 J**	**1.6 J**	**0.047 J**	**0.18 J**	**16**	**27 J**
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<0.2	**3.1 J**	<5.0	<0.20	**0.21 J**	**0.61 J**	**2.9 J**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<0.2	**1.9 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<0.2	**5.3 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014						**61**	**0.18 J**	**0.82 J**	**1,200**	<1.0	<1.0	**0.53 J**	**1.9 J**	**3.6 J**		**8,800**	**0.24 J**	<50	**750**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.19 J**	<5.0	**1,300**	<1.0	<1.0	**0.43 J**	**1.5 J**	**4.6**	**2.2 J**	**9,100**	**0.22 J**	<50	**660**
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014						**1,200**	**0.31 J**	**2.7 J**	**1,600**	<1.0	**0.090 J**	**2.6 J**	**1.3 J**	**3.9 J**		**14,000**	**1.3 J**	<50	**310**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.22 J**	<5.0	**1,600**	<1.0	<1.0	**0.55 J**	**0.86 J**	<4.0	<5.0	**12,000**	<3.0	<50	**340**
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015						**1,000**	**0.31 J**	**1.4 J**	**1,800**	<1.0	<1.0	**2.2 J**	**1.9 J**	**7.6**		**14,000**	**2.2 J**	<50	**170**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**5.1 J**	**0.58 J**	<5.0	**1,500**	<1.0	<1.0	**0.58 J**	**1.4 J**	**1.3 J**	<5.0	**12,000**	<3.0	<50	**140**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015						**340**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**130,000**	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015						**380**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016						**60**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**140**
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**160**
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**270**
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	**27 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**270**
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017						**36 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**740**
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,000**	NS	NS	**740**
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017						**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**250**
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017						**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**280**
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**260**
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**400**
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**420**
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018						**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**240**
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**230**
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019						**610**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**690**
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**700**
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014						**1,400**	**0.11 J**	**5.6**	**160**	<1.0	<1.0	**2.4 J**	**0.98 J**	**2.8 J**		**4,200**	**2.2 J**	<50	**210**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.063 J**	**4.5 J**	**150**	<1.0	<1.0	<10	**0.23 J**	<4.0	<0.005	**2,100**	**0.052 J**	<50	**180**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014						**980**	**0.063 J**	**5.8**	**150**	<1.0	**0.056 J**	**1.5 J**	**0.80 J**	**2.2 J**		**3,600**	**1.8 J**	<50	**240**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	**21 J**	**0.093 J**	**5.1**	**150**	<1.0	<1.0	<10	**0.65 J**	**0.96 J**	NS	**2,500**	<3.0	<50	**220**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014						**1,200**	**0.071 J**	**6.0**	**150**	<1.0	<1.0	**2.2 J**	**0.85 J**	**3.2 J**		**3,800**	**1.8 J**	<50	**240**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	**19 J**	**0.042 J**	**5.3**	**140**	<1.0	<1.0	**0.50 J**	**0.50 J**	**0.94 J**	NS	**2,500**	<3.0	<50	**230**
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014						**700**	<2.0	**6.3**	**190**	<1.0	**0.075 J**	**1.6 J**	**0.61 J**	**1.7 J**		**4,100**	**1.5 J**	<50	**300**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	**5.8**	**190**	<1.0	<1.0	<10	**0.25 J**	**0.23 J**	<5.0	**3,000**	<3.0	<50	**280**
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015						**2,000**	<2.0	**5.1**	**260**	<1.0	**0.45 J**	**2.9 J**	**1.4 J**	**4.2**		**5,300**	**3.4**	<50	**330**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**9.8 J**	<2.0	**2.7 J**	**240**	<1.0	**0.050 J**	**0.14 J**	**0.62 J**	**1.0 J**	<5.0	**2,300**	<3.0	<50	**320**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015						**990**	NS	NS	NS	NS	NS	NS	NS	NS		**4,600**	NS	**22,000**	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	**21,000**	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016						**310**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS	**400**
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**380**
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**3,900**
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**410**
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**420**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**430**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017						**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**440**
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**440**
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**510**
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**500**
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018						**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**450**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330012-032714-ACN-005	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330012-12114-JCH-021	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-031715-ACN-011	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**6.3**	**9.2 J**
MW-12	W-R2330017-112015-AFB-032	11/20/2015	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.5 J**
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015	<0.2	**21**	**1.7 J**	**0.080 J**	<2.0	**24**	**53**
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	<0.2	**1.8 J**	<5.0	<0.20	<2.0	**0.48 J**	**3.9 J**
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	<0.2	**9.4 J**	**0.82 J**	<0.20	<2.0	**4.2**	**11 J**
MW-12	W-R2330021-042116-AFB-027	4/21/2016	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.53 J**	**3.7 J**
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**6.4**	**11 J**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.57 J**	**1.1 J**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	<0.2	**1.4 J**	<5.0	<0.20	<2.0	**0.68 J**	**4.5 J**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**4.0 J**	**12 J**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.52 J**	<50
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**3.9 J**	**12 J**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.55 J**	<50
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-031615-ACN-007	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	<0.2	**5.5 J**	**0.68 J**	<0.20	<2.0	**3.8 J**	**9.9 J**
MW-17	W-R2330021-110116-AEM-009	11/1/2016	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.32 J**	**1.9 J**
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.8 J**	**8.2 J**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	**4.5 J**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	<0.2	**7.7 J**	<5.0	**0.038 J**	<2.0	**8.5**	**18 J**
MW-17	W-R2330022-102617-AFB-023	10/26/2017	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.47 J**	<3.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.78 J**	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**440**
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**450**
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**450**
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014						**5,400**	**0.35 J**	**10**	**400**	**0.23 J**	**0.28 J**	**8.8 J**	**5.6 J**	**11**		**13,000**	**6.9**	<50	**600**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**56**	**0.24 J**	**5.1**	**370**	**0.097 J**	**0.16 J**	**0.30 J**	**1.3 J**	<4.0	<0.005	**2,000**	**0.20 J**	<50	**250**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014						**25,000**	**1.0 J**	**46**	**730**	**1.2**	**1.4**	**48**	**34**	**74**		**72,000**	**52**	<50	**3,800**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**45 J**	**0.18 J**	**11**	**550**	<1.0	**0.088 J**	<10	**0.59 J**	**0.21 J**	<5.0	**3,600**	<3.0	<50	**210**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015						**28,000**	**1.3 J**	**51**	**740**	**0.77 J**	**1.4**	**35**	**25**	**60**		**60,000**	**45**	<50	**2700**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	**6.7**	**450**	<1.0	**0.041 J**	**0.15 J**	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50	**180**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015						**2,200**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	**30,000**	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016						**2,100**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS	**220**
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**140**
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016						**96**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS	**180**
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**180**
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017						**2,300**	NS	NS	NS	NS	NS	NS	NS	NS		**7,900**	NS	NS	**420**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**150**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017						**5,100**	NS	NS	NS	NS	NS	NS	NS	NS		**17,000**	NS	NS	**880**
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**160**
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018						**7,500**	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS	**1700**
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**130**
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018						**580**	NS	NS	NS	NS	NS	NS	NS	NS		**6,200**	NS	NS	**590**
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**230**
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**3,800**	NS	NS	**250**
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**190**
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014						**1,900**	**0.089 J**	**6.2**	**350**	<1.0	**0.062 J**	**3.5 J**	**1.5 J**	**3.4 J**		**5,300**	**1.6 J**	<50	**350**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**120**	**0.12 J**	**4.5 J**	**320**	<1.0	<1.0	**0.53 J**	**1.1 J**	0.87 J	**1.2 J**	**2,400**	**0.088 J**	<50	**300**
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014						**7,900**	**0.49 J**	**14**	**380**	**0.34 J**	**0.27 J**	**16**	**6.7 J**	**17**		**16,000**	**9.7**	<50	**560**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**74**	**0.15 J**	**6.3**	**330**	<1.0	**0.054 J**	**0.30 J**	**0.93 J**	**0.18 J**	<5.0	**2,000**	<3.0	<50	**350**
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015						**1,600**	**0.12 J**	**11**	**510**	<1.0	<1.0	**2.8 J**	**1.9 J**	**4.1**		**6,600**	**1.7 J**	<50	**520**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.14 J**	**5 J**	**540**	<1.0	<1.0	**0.3 J**	**0.91 J**	**1.8 J**	<5.0	**3,500**	<3.0	<50	**460**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015						**4,100**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**38,000**	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**34,000**	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	**25 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**420**
MW-19[A]	DUP 1	4/19/2016						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**420**
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**360**
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**350**
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017						**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**360**
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**370**
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017						**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**520**
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**520**
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018						**740**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**390**
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**380**
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018						**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**390**
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**350**
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**420**
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**400**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330012-052014-ACN-026	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330012-112414-ACN-001	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-031615-JCH-003	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	<0.2	**23**	**2.7 J**	<0.20	<2.0	**24**	**81**
MW-18	W-R2330021-041916-AEP-009	4/19/2016	<0.2	**3.2 J**	<5.0	<0.20	<2.0	**0.64 J**	**2.2 J**
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**6.8 J**
MW-18	W-R2330021-110316-AEM-025	11/3/2016	<0.2	**3.7 J**	<5.0	<0.20	<2.0	<4.0	**23 J**
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.75 J**	**5.6 J**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	<0.2	**3.8 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**1.5 J**	**8.6 J**
MW-18	W-R2330022-102517-AFB-018	10/25/2017	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**0.71 J**	**5.9 J**
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330012-052014-ACN-027	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330012-112414-ACN-002	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330017-031615-JCH-004	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	<0.2	**4.4 J**	**0.92 J**	<0.20	<2.0	**2.5 J**	**7.2 J**
MW-19	W-R2330017-111715-AFB-008	11/17/2015	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**1.1 J**	**2.2 J**
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	<0.2	**4.4 J**	**0.72 J**	<0.20	<2.0	**2.6 J**	**7.3 J**
MW-19	W-R2330021-041916-JPM-010	4/19/2016	<0.2	**3.1 J**	<5.0	<0.20	<2.0	**0.84 J**	**1.9 J**
MW-19[A]	DUP 1	4/19/2016	<0.2	**25**	**2.8 J**	**0.059 J**	<2.0	**29**	**100**
MW-19	DUP 1	4/19/2016	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.5 J**
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	<0.2	**7.4 J**	**0.76 J**	**0.023 J**	<2.0	**3.3 J**	**9.2 J**
MW-19	W-R2330021-110316-AEM-027	11/3/2016	<0.2	**6.3 J**	<5.0	**0.020 J**	<2.0	**1.2 J**	**4.1 J**
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.87 J**	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**1.5 J**	<10	<10	<4.0	**1.2 J**	<5.0	**0.88 J**	<1.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014						**1,800**	**0.15 J**	**9.5**	**340**	<1.0	**0.061 J**	**3.8 J**	**1.6 J**	**5.1**		**9,600**	**2.7 J**	<50	**280**
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.065 J**	**5.6**	**330**	<1.0	<1.0	**0.39 J**	**0.71 J**	**1.1 J**	<0.005	**4,900**	<3.0	<50	**200**
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014						**330**	<2.0	**8.8**	**290**	<1.0	<1.0	**0.90 J**	**0.49 J**	**1.2 J**		**4,200**	**0.69 J**	<50	**160**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**100**	<2.0	**7.7**	**300**	<1.0	<1.0	**0.39 J**	**0.66 J**	**0.32 J**	<5.0	**3,600**	<3.0	<50	**150**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015						**1,600**	**0.14 J**	**7.5**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.9**		**7,000**	**2.8 J**	<50	**210**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**64**	**0.13 J**	**5.8**	**260**	<1.0	<1.0	**0.36 J**	**0.73 J**	**0.98 J**	<5.0	**4,200**	<3.0	<50	**170**
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015						**1,600**	**0.13 J**	**7.6**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.7**		**7,100**	**2.8 J**	<50	**210**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**43 J**	<2.0	**6.1**	**250**	<1.0	<1.0	**0.28 J**	**0.61 J**	**0.93 J**	<5.0	**4,900**	<3.0	<50	**170**
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015						**2,600**	NS	NS	NS	NS	NS	NS	NS	NS		**10,000**	NS	**56,000**	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**55,000**	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016						**46 J**	NS	NS	NS	NS	NS	NS	NS	NS		**3,500**	NS	NS	**140**
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**150**
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**170**
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**160**
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**180**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**180**
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**180**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**190**
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017						**960**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**160**
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**140**
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018						**680**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**180**
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**160**
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018						**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**170**
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**160**
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019						**1,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**250**
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**200**
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014						**1,400**	**0.16 J**	**1.9 J**	**38 J**	<1.0	<1.0	**2.4 J**	**1.7 J**	**4.1**		**2,400**	**1.4 J**	<50	**60**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**48 J**	**0.16 J**	<5.0	**31 J**	<1.0	<1.0	<10	**0.91 J**	**1.2 J**	<0.005	**56 J**	<3.0	<50	**9.1 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014						**480**	**0.15 J**	**1.1 J**	**81 J**	<1.0	**0.076 J**	**1.1 J**	**0.89 J**	**2.0 J**		**850**	**0.72 J**	<50	**52**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**0.70 J**	**72 J**	<1.0	**0.061 J**	**0.22 J**	**0.70 J**	**0.98 J**	<5.0	**42 J**	<3.0	<50	**37 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015						**3,000**	**0.23 J**	**2.2 J**	**73 J**	<1.0	**0.21 J**	**5.1 J**	**2.5 J**	**6.2**		**4,100**	**2.9 J**	<50	**100**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.19 J**	<5.0	**62 J**	<1.0	**0.078 J**	**0.14 J**	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50	**25 J**
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015						**34 J**	NS	NS	NS	NS	NS	NS	NS	NS		**59 J**	NS	**21,000**	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**	NS
MW-21[A] (DUP)	DUP 1	11/18/2015						**27 J**	NS	NS	NS	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS	**4.6 J**
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS	**3.8 J**
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016						**16 J**	NS	NS	NS	NS	NS	NS	NS	NS		**36 J**	NS	NS	**35 J**
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS	**36 J**
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017						**120**	NS	NS	NS	NS	NS	NS	NS	NS		**220**	NS	NS	**33 J**
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS	**24 J**
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017						**140**	NS	NS	NS	NS	NS	NS	NS	NS		**200**	NS	NS	**46**
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	**43**
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018						**270**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS	**150**
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**120**
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014						**8,100**	**0.78 J**	**14**	**540**	<1.0	**0.56 J**	**14**	**9.5 J**	**31**		**21,000**	**19**	<50	**730**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**4.3 J**	**440**	<1.0	<1.0	<10	**2.2 J**	**0.64 J**	**1.3 J**	**3,100**	**0.079 J**	<50	**360**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014						**200**	**0.18 J**	**16**	**1,300**	<1.0	**0.11 J**	**1.1 J**	**1.9 J**	**1.3 J**		**11,000**	**0.62 J**	<50	**250**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330012-052014-ACN-028	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	<0.2	**3.8 J**	**0.69 J**	<0.20	<2.0	**0.69 J**	**4.9 J**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	**1.7 J**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015	<0.2	**1.7 J**	<5.0	<0.20	<2.0	<4.0	**4.7 J**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<0.2	**0.93 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<0.2	**3.1 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<0.2	**2.8 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	<0.2	**6.3 J**	**2.4 J**	<0.20	<2.0	**6.8**	**12 J**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	<0.2	**2.3 J**	1.7 J	<0.20	<2.0	**0.35 J**	**2.2 J**
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017	<0.2	**6.5 J**	**1.1 J**	<0.20	<2.0	**1.4 J**	**6.1 J**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	<4.0	**4.4 J**
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	<0.2	**4.9 J**	**1.2 J**	<0.20	<2.0	**1.5 J**	**6.3 J**
MW-20	W-R2330022-102617-AFB-022	10/26/2017	<0.2	**4.8 J**	**1.1 J**	<0.20	<2.0	<4.0	**8.4 J**
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-051914-ACN-021	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-112514-ACN-006	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330017-032015-JCH-023	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	<0.2	**4.3 J**	**0.9 J**	<0.20	<2.0	**3.1 J**	**7.3 J**
MW-21	W-R2330012-111815-JPM-013	11/18/2015	<0.2	**0.23 J**	<5.0	<0.20	<2.0	**0.41 J**	**1.6 J**
MW-21[A] (DUP)	DUP 1	11/18/2015	<0.2	**2.7 J**	**0.86 J**	<0.20	<2.0	**0.98 J**	**4.5 J**
MW-21 (DUP)	DUP 1	11/18/2015	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	**3.0 J**
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**7.0**	**16 J**
MW-21	W-R2330012-042016-JPM-015	4/20/2016	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330012-051914-ACN-022	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	**0.064 J**	**9.1 J**	<5.0	<0.20	<2.0	**1.1 J**	**7.0 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018																			
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<25	<1.0	<1.0	<50	<50	**3.7**	<1.0	<5.0	**40**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<25	<1.0	<1.0	<50	<50	**5.4**	<1.0	<5.0	**89**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	**45**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<25	<1.0	<1.0	<50	<50	**4.1**	<1.0	<5.0	**72**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<25	<1.0	<1.0	<50	<50	**2.5**	<1.0	<5.0	**36**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<25	<1.0	<1.0	<50	**3.2 J**	**1.2**	<1.0	<5.0	**18**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	<25	<1.0	<1.0	<50	**2.2 J**	**2.7**	<1.0	<5.0	**43**	<5.0	<1.0	**0.60 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	**65**	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	<25	<1.0	<1.0	<50	<50	**2.1**	<1.0	<5.0	**42**	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	<25	<1.0	<1.0	<50	**1.6 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	3+4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018																			
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.85 J**	<1.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.91 J**	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0**	<5.0	**1.6 J**	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.22 J**	**15**	**1,300**	<1.0	<1.0	**0.70 J**	**1.7 J**	<4.0	<5.0	**11,000**	<3.0	<50	**240**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014						**160**	<2.0	**16**	**1,300**	<1.0	**0.095 J**	**0.80 J**	**1.7 J**	**1.1 J**		**11,000**	<3.0	<50	**270**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.11 J**	**16**	**1,300**	<1.0	<1.0	**0.61 J**	**1.7 J**	**0.37 J**	**17**	**11,000**	<3.0	<50	**260**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015						**340**	**0.17 J**	**14**	**1,300**	<1.0	<1.0	**1.3 J**	**2.2 J**	**4.0**		**13,000**	**2.3 J**	<50	**270**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.23 J**	**13**	**1,400**	<1.0	<1.0	**0.54 J**	**2.1 J**	**1.8 J**	**6.0**	**12,000**	<3.0	<50	**250**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015						**95**	NS	NS	NS	NS	NS	NS	NS	NS		**7,000**	NS	**120,000**	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	**120,000**	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016						**37 J**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS	**88**
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	**41 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**82**
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016						**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017						**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**140**
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**130**
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017						**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**72**
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**67**
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**110**
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**110**
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014						**560**	**0.15 J**	**13**	**610**	<1.0	<1.0	**1.7 J**	**2.2 J**	**2.1 J**		**13,000**	**1.2 J**	<50	**180**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.7 J**	**0.089 J**	**12**	**560**	<1.0	<1.0	**0.76 J**	**1.9 J**	<4.0	<0.005	**12,000**	**0.067 J**	<50	**160**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014						**590**	**0.11 J**	**12**	**580**	<1.0	<1.0	**1.7 J**	**2.1 J**	**2.2 J**		**13,000**	**1.3 J**	<50	**180**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.5 J**	**0.076 J**	**12**	**550**	<1.0	<1.0	**0.70 J**	**1.8 J**	<4.0	<0.005	**11,000**	<3.0	<50	**150**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014						**6,700**	**1.1 J**	**46**	**1,300**	**0.31 J**	**0.68 J**	**18**	**9.3 J**	**37**		**35,000**	**30**	<50	**310**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**21 J**	**0.20 J**	**26**	**1,100**	<1.0	**0.037 J**	**1.3 J**	**2.4 J**	**0.18 J**	<5.0	**18,000**	<3.0	<50	**78**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015						**650**	**0.20 J**	**17**	**940**	<1.0	<1.0	**2.2 J**	**3.1 J**	**3.7 J**		**17,000**	**2.6 J**	<50	**120**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.21 J**	**16**	**860**	<1.0	<1.0	**0.96 J**	**2.8 J**	**2.3 J**	<5.0	**16,000**	**0.82 J**	<50	**99**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015						**180**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**130,000**	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	**130,000**	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**89**
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**99**
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016						**570**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**100**
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**92**
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**85**
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**80**
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017						**65**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**90**
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**91**
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**7.9**
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**7.3**
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014						**310**	<2.0	**5.7**	**170**	<1.0	<1.0	**0.57 J**	**0.50 J**	**1.6 J**		**5,300**	**0.38 J**	<50	**640**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.074 J**	**5.2**	**160**	<1.0	<1.0	<10	**0.76 J**	**0.75 J**	<0.005	**4,700**	<3.0	<50	**620**
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014						**12 J**	<2.0	**4.6 J**	**130**	<1.0	**0.051 J**	**0.13 J**	**0.25 J**	<4.0		**2,500**	<3.0	<50	**690**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**4.9 J**	**130**	<1.0	<1.0	<10	**0.19 J**	<4.0	<5.0	**2,100**	<3.0	<50	**670**
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015						**84**	<2.0	**7.4**	**140**	<1.0	**0.24 J**	**0.68 J**	**0.56 J**	**1.8 J**		**5,900**	**0.47 J**	<50	**740**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.19 J**	**3.2 J**	**130**	<1.0	**0.066 J**	<10	**0.57 J**	**1.3 J**	<5.0	**2,600**	**0.36 J**	<50	**700**
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015						**260**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**48,000**	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**47,000**	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016						**170**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**840**
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**920**
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016						**730**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**820**
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**760**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-22	W-R2330012-112514-ACN-007	11/25/2014	**0.062 J**	**8.8 J**	<5.0	<0.20	<2.0	**0.55 J**	**5.0 J**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<0.2	**9.3 J**	**1.1 J**	<0.20	<2.0	**1.9 J**	**11 J**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<0.2	**7.5 J**	**0.79 J**	<0.20	<2.0	**0.66 J**	**4.2 J**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015	<0.2	**5.7 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.0 J**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<0.2	**6.8 J**	**0.97 J**	**0.095 J**	<2.0	<4.0	**3.1 J**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.2 J**	**6.8 J**
MW-22	W-R2330022-102517-AFB-014	10/25/2017	<0.2	**3.3 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**6.4 J**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.4 J**	**17 J**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<0.2	**3.9 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330012-112514-ACN-009	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-032015-ACN-028	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**8.0 J**
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<0.2	**1.6 J**	<5.0	<0.20	<2.0	**0.68 J**	**3.8 J**
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	<0.2	**2.0 J**	<5.0	<0.20	<2.0	**0.96 J**	**4.6 J**
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<0.2	**1.7 J**	<5.0	<0.20	<2.0	**0.91 J**	**5.3 J**
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330012-052014-ACN-030	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330012-112614-JCH-013	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-032015-ACN-026	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	<25	<1.0	<1.0	<50	**2.8 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.80 J**	<1.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<10	<10	**0.40 J**	<10	<10	<5.0	<10	<5.0	**0.30 J**	<5.0	<10	<5.0	<10	<10	**0.38 J**	<5.0	<5.0	<5.0	<1.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																		Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017						**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**990**
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**970**
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017						**27**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**700**
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**710**
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018						**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**1000**
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**960**
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014						**2,600**	**0.24 J**	**1.9 J**	**83 J**	<1.0	<1.0	**3.8 J**	**1.5 J**	**7.4**		**3,800**	**2.5 J**	<50	**190**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.21 J**	**0.63 J**	**68 J**	<1.0	<1.0	<10	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50	**150**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014						**400**	**0.18 J**	**0.85 J**	**72 J**	<1.0	**0.11 J**	**1.3 J**	**0.53 J**	**3.2 J**		**570**	**0.59 J**	<50	**340**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.15 J**	<5.0	**66 J**	<1.0	**0.071 J**	<10	**0.33 J**	**2.9 J**	<5.0	**16 J**	<3.0	<50	**250**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015						**450**	**0.22 J**	**0.88 J**	**72 J**	<1.0	**0.060 J**	**0.84 J**	**0.77 J**	**4.2**		**620**	**0.57 J**	<50	**310**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	**0.13 J**	**0.71 J**	<2.0	<5.0	<5.0	**12 J**	**0.28 J**	<5.0	**67 J**	<1.0	**0.061 J**	<10	**0.63 J**	**6.2**	<5.0	**28 J**	**0.37 J**	<50	**110**
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015						**6,000**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**30,000**	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	**46 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**63 J**	NS	**16,000**	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016						**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS	**990**
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**68**
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**370**
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**230**
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017						**720**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**580**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**95**
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**570**
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**320**
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**1,100**
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**45**
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014						**900**	**0.37 J**	**2.7 J**	**37 J**	<1.0	<1.0	**1.8 J**	**1.2 J**	**4.6**		**1,900**	**1.1 J**	<50	**110**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**36 J**	**0.39 J**	**1.5 J**	**34 J**	<1.0	<1.0	<10	**1.1 J**	**1.0 J**	<0.005	**55 J**	<3.0	<50	**86**
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014						**210**	**0.22 J**	<5.0	**25 J**	<1.0	**0.13 J**	**0.52 J**	**0.65 J**	**2.0 J**		**360**	<3.0	<50	**69**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.16 J**	<5.0	**24 J**	<1.0	**0.079 J**	<10	**0.54 J**	**1.0 J**	<5.0	<200	<3.0	<50	**65**
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015						**2,200**	**0.33 J**	**3.5 J**	**34 J**	<1.0	**0.16 J**	**4.5 J**	**2.1 J**	**7.8**		**4,300**	**3.4**	<50	**100**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**82**	**0.27 J**	<5.0	**21 J**	<1.0	**0.070 J**	**0.29 J**	**0.80 J**	**2.2 J**	<5.0	**130 J**	<3.0	<50	**25 J**
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015						**910**	NS	NS	NS	NS	NS	NS	NS	NS		**2,300**	NS	**21,000**	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	**20,000**	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS	**58**
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**11 J**
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016						**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**910**	NS	NS	**45 J**
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**250**
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017						**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	NS	**19 J**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23 J**	NS	NS	**5.8 J**
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**480**	NS	NS	**71**
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**62**
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018						**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	NS	**17**
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS	**5.4**
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014						**190**	**0.61 J**	**4.7 J**	**240**	<1.0	**0.097 J**	**0.69 J**	**2.4 J**	**3.7 J**		**1,700**	**0.70 J**	NS	**160**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**	<1.0	<1.0	<10	**2.9 J**	**1.9 J**	NS	**1,500**	**0.076 J**	<50	**160**
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014						**460**	**0.25 J**	**2.7 J**	**200**	<1.0	**0.063 J**	**1.2 J**	**2.5 J**	**4.2**		**1,900**	**1.2 J**	<50	**140**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**32 J**	**0.18 J**	**2.2 J**	**290**	<1.0	<1.0	**0.22 J**	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50	**110**
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015						**270**	**0.43 J**	**0.97 J**	**210**	<1.0	**0.13 J**	**0.76 J**	**1.9 J**	**2.3 J**		**2,200**	**0.62 J**	<50	**72**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.67 J**	**0.75 J**	**260**	<1.0	**0.23 J**	**0.35 J**	**2.4 J**	**1.3 J**	<5.0	**1,900**	<3.0	<50	**80**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330012-051914-ACN-025	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330012-112614-JCH-012	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-032015-JCH-025	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**3.3 J**	**13 J**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	<0.2	**3.6 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330012-051914-ACN-020	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330012-112614-JCH-011	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-032015-ACN-024	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**7.8 J**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.76 J**	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330012-12114-JCH-018	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015	<0.2	<20	<5.0	<5.0	<5.0	<4.0	**1,500**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<0.2	<20	<5.0	<5.0	<5.0	<4.0	**4.0 J**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**22 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016						**59**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	NS	**94**
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**100**
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**110**
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**100**
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**110**
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**110**
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017						**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS	**100**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**90**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017						**35**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS	**92**
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**91**
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018						**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS	NS	**110**
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	**4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**100**
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018						**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**120**
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019						**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**850**
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	**3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**830**
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015						**530**	<2.0	**2.5 J**	**200**	<1.0	0.046 J	**1.3 J**	**1.4 J**	**1.6 J**		**3,200**	**2.0 J**	<50	**410**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**8.8 J**	<2.0	**2.3 J**	**200**	<1.0	<1.0	<10	**1.1**	**0.35 J**	<5.0	**2,400**	<3.0	<50	**380**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015						**370**	<2.0	**2.1 J**	**200**	<1.0	**0.065 J**	**1.3 J**	**1.3 J**	**0.88 J**		**2,900**	**0.60 J**	<50	**400**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	<2.0	**2.4**	**200**	<1.0	<1.0	<10	**1.3 J**	<4.0	<5.0	**2,500**	<3.0	<50	**400**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015						**1,400**	**0.11 J**	**6.2**	**220**	<1.0	**0.11 J**	**3.3 J**	**2.0 J**	**5.6**		**5,400**	**2.8 J**	<50	**400**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**3.1 J**	**220**	<1.0	**0.048 J**	<10	**1.0 J**	**1.3 J**	<5.0	**2,800**	<3.0	<50	**400**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015						**420**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	**21,000**	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**20,000**	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**5,400**	NS	NS	**260**
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016						**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**300**
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**290**
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**240**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017						**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**210**
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**210**
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018						42	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**250**
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**250**
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018						**15.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**66**
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	**110.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**210**
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019						**230.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**160**
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**180**
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015						**580**	**0.30 J**	**4.3 J**	**120**	<1.0	**0.53 J**	**1.7 J**	**0.30 J**	**3.9 J**		**500**	**1.3 J**	<50	**72**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	**0.39 J**	**3.2 J**	**110**	<1.0	**0.45 J**	<10	**0.28 J**	**1.1 J**	**5.0**	**18 J**	<3.0	<50	**67**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015						**110**	**0.28 J**	**1.6 J**	**95 J**	<1.0	**0.54 J**	**0.34 J**	**0.19 J**	**2.2 J**		**100 J**	<3.0	<50	**47 J**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**5.8 J**	**0.44 J**	**2.3 J**	**110**	<1.0	**0.22 J**	<10	**0.62 J**	**1.6 J**	<5.0	**180 J**	<3.0	<50	**110**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**310**	NS	**14,000**	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**740**	NS	**13,000**	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016						**21 J**	NS	NS	NS	NS	NS	NS	NS	NS		**710**	NS	NS	**110**
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**130**
MW-30[A]	DUP 2	4/22/2016						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**650**	NS	NS	**120**
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**120**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-27	W-R2330017-111915-JPM-020	11/19/2015	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.20 J**	**4.8 J**
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	<0.2	**22**	**0.68 J**	<0.20	**0.35 J**	**7.3**	**8.1 J**
MW-27	W-R2330021-042216-AFB-031	4/22/2016	<0.2	**12 J**	**0.68 J**	<0.20	<2.0	**0.19 J**	**3.0 J**
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	<0.2	**10 J**	**0.77 J**	<0.20	<2.0	**2.4 J**	**2,200**
MW-27	W-R2330021-110416-JPM-033	11/4/2016	<0.2	**8.5 J**	**0.84 J**	<0.20	<2.0	**0.17 J**	**26 J**
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**0.39**	**86 J**	<5.0	**2.7**	<2.0	**86**	**210 J**
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	<0.2	**10 J**	<5.0	<0.20	**1.1 J**	**1.3 J**	**24 J**
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	<0.2	**20 J**	<5.0	<0.20	<2.0	**4.0 J**	**420 J**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	<0.2	**16 J**	<5.0	<0.20	**0.081 J**	**0.77 J**	**5.6 J**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	**0.12 J**	**130 J**	**12 J**	<0.20	**0.96 J**	**9.3**	**580**
MW-27	W-R2330022-102417-DMS-009	10/24/2017	<0.2	**9.1 J**	**0.76 J**	<0.20	<2.0	**1.7 J**	**4.8 J**
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	**0.30**	**210**	**9.8 J**	**0.53 J**	**2.4 J**	**86**	**1,700**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<0.2	**14 J**	**0.73 J**	<0.20	<2.0	**0.38 J**	**4.5 J**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015	**0.95**	**1,100**	**27 J**	**1.7 J**	**6.3 J**	**590**	**2,900**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<0.2	**5.0 J**	<5.0	<0.20	**0.26 J**	**3.2 J**	**14 J**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015	**0.51**	**1,100**	**47 J**	**2.5**	**13 J**	**660**	**680**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<0.2	**14 J**	**0.75 J**	<0.20	<2.0	**0.67 J**	**19 J**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015	<0.2	**210**	**9.4 J**	<0.20	**2.3 J**	**180**	**140 J**
MW-29	W-R2330017-112015-AFB-028	11/20/2015	<0.2	**25**	<5.0	<0.20	<2.0	**0.46 J**	**18 J**
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	<0.2	**53 J**	<5.0	<0.20	<2.0	**46**	**800**
MW-29	W-R2330021-042216-AFB-033	4/22/2016	<0.2	**24**	<5.0	<0.20	<2.0	<4.0	**4.2 J**
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	**0.23**	**310**	**13 J**	**0.75 J**	**3.3 J**	**320**	**470 J**
MW-29	W-R2330021-110416-AEM-031	11/4/2016	<0.2	**15 J**	<5.0	<0.20	<2.0	**0.49 J**	**18 J**
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	**0.13**	**51 J**	<5.0	<0.20	<2.0	**24 J**	**950**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.7 J**	<500
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**44**
MW-29	W-R2330022-102617-AFB-024	10/26/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<27
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	**0.15**	**22 J**	<5.0	<0.20	<2.0	**19 J**	**210 J**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<0.2	**8.2 J**	<5.0	<0.20	<2.0	<4.0	**16 J**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015	**0.1**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**9,900**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	**61 J**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015	<0.2	**31 J**	<5.0	<0.20	<2.0	**2.4 J**	**44 J**
MW-30	W-R2330017-112015-JPM-029	11/20/2015	<0.2	**19 J**	<5.0	<0.20	<2.0	**2.4 J**	**27 J**
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	**2.2**	**320**	<5.0	**16**	<2.0	**90**	**140**
MW-30	W-R2330021-042216-JPM-034	4/22/2016	<0.2	**16 J**	<5.0	<0.20	<2.0	**2.3 J**	**34 J**
MW-30[A]	DUP 2	4/22/2016	**0.11**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**360**
MW-30	DUP 2	4/22/2016	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	**19 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																					Metals
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016						**28 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**94**
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**990**	NS	NS	**100**
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017						**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**75**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**96**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017						**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**75**
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**920**	NS	NS	**70**
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018						**70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**620**	NS	NS	**110**
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	**6.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**92**
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018						**4.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**120**
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**730**	NS	NS	**52**
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**81**
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	**8.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**92**
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019						**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**100**
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**68**
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015						**330**	NS	NS	NS	NS	NS	NS	NS	NS		**490**	NS	<50	**240**
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**55 J**	NS	<50	**240**
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015						**3,400**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**27,000**	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	**17,000**	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**130**	NS	NS	**360**
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**390**
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016						**14 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**400**
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110 J**	NS	NS	**370**
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017						**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**870**	NS	NS	**410**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150 J**	NS	NS	**420**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**440**
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS	**430**
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018						**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**630**
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS	**400**
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018						**1,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**830**
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140**	NS	NS	**280**
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**590**
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**530**
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015						**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	<50	**95**
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	<50	**62**
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015						**920**	NS	NS	NS	NS	NS	NS	NS	NS		**6,300**	NS	**66,000**	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**66,000**	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016						**160**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS	**81**
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**410**	NS	NS	**87**
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016						**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**100**
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**82**
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017						**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**46 J**
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS	**NS**	**90**
MW-32	W-R2330022-102317-DMS-004	10/23/2017						<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	**NS**	**80**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**810**	NS	NS	**29 J**
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018						**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS	NS	**42**
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**33**
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**			**81**
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	**4.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**			**85**
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019						**4,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**1,600**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	**0.43**	**40**	**2.6 J**	**0.18 J**	**0.37 J**	**30**	**140**
MW-30	W-R2330021-110416-AEM-032	11/4/2016	<0.2	**26 J**	<5.0	<2.0	<2.0	**1.7 J**	**62**
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	<0.2	**31**	**0.98 J**	<0.2	<2.0	**0.86 J**	**2.8 J**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	<0.2	**7.5 J**	**1.7 J**	<0.2	<2.0	**0.69 J**	**16 J**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	<0.2	**11 J**	<5.0	<0.2	<2.0	**1.4 J**	**2.9 J**
MW-30	W-R2330022-102617-AFB-025	10/26/2017	<0.2	**18 J**	**0.84 J**	<0.20	<2.0	**0.46 J**	**2.5 J**
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	<0.2	**2.6 J**	**0.73 J**	<0.20	<2.0	**1.3 J**	**340**
MW-31	W-R2330017-060515-ACN-001	6/5/2015	<0.2	**10 J**	<5.0	<0.20	<2.0	**2.2 J**	**21 J**
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	<0.2	**9.7 J**	<5.0	<0.20	<2.0	**3.3 J**	**6.9 J**
MW-31	W-R2330017-111615-AEP-001	11/16/2015	<0.2	**9.6 J**	<5.0	<0.20	<2.0	**3.3 J**	**7.8 J**
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	<0.2	**31 J**	<5.0	<0.20	<2.0	**1.1 J**	**9.0 J**
MW-31	W-R2330021-041816-JPM-003	4/18/2016	<0.2	**15 J**	<5.0	<0.20	<2.0	<4.0	**21J**
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	<0.2	**11 J**	**1.1 J**	<0.20	**1.5 J**	**1.1 J**	**1.3 J**
MW-31	W-R2330021-103116-AEM-003	10/31/2016	<0.2	**9.6 J**	<5.0	<0.20	<2.0	<4.0	**8.0 J**
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	<0.2	**17 J**	**7.2**	<0.2	<2.0	**0.59 J**	**1.9 J**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	<0.2	**20 J**	**5.4 J**	<0.20	<2.0	**2.4 J**	**38 J**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	**10 J**
MW-31	W-R2330022-102617-DMS-003	10/23/2017	<0.2	**4.3 J**	<5.0	<0.20	<2.0	<4.0	**80 J**
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	<0.2	**6.4 J**	<5.0	<0.20	<2.0	<4.0	**51**
MW-32	W-R2330017-060515-ACN-002	6/5/2015	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.2 J**	**8.8 J**
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**0.28 J**	**15 J**
MW-32	W-R2330017-111615-AEP-002	11/16/2015	<0.2	**5.2 J**	<5.0	<0.20	<2.0	<4.0	**1.8 J**
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	<0.2	**13 J**	<50	<0.20	**0.093 J**	**1.1 J**	**4.1 J**
MW-32	W-R2330021-041816-AEP-004	4/18/2016	<0.2	**4.2 J**	<5.0	<0.20	<2.0	<4.0	**3.1 J**
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	<0.2	**0.42 J**	**0.48 J**	<0.025	<2.0	<0.30	**2.2 J**
MW-32	W-R2330021-103116-JPM-004	10/31/2016	<0.2	**0.6 J**	<5.0	<0.20	<2.0	<4.0	**1.7 J**
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**5.3 J**
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	<0.2	**0.46 J**	<5.0	<0.20	<2.0	<4.0	**2.1 J**
MW-32	W-R2330022-102317-DMS-004	10/23/2017	<0.2	<20	<5.0	<0.20	<2.0	**0.3 J**	**0.57 J**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.87 J**
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018																			
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018																			
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																					Metals
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**780**	NS	NS	**60**
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015						**1,000**	NS	NS	NS	NS	NS	NS	NS	NS		**4,500**	NS	<50	**120**
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50	**80**
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015						**860**	NS	NS	NS	NS	NS	NS	NS	NS		**3,400**	NS	**84,000**	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016						**67**	NS	NS	NS	NS	NS	NS	NS	NS		**2,700**	NS	NS	**81**
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS	**84**
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**78**
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**64**
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017						**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**89**
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**72**
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**68**
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018						**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**84**
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018						**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**84**
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	**3.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**75**
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015						**1,700**	**0.24 J**	**4.2 J**	**120**	<1.0	<1.0	**2.6 J**	**2.2 J**	**5.0**		**2,800**	**2.4 J**	<50	**320**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**20 J**	**0.23 J**	**3.0 J**	**110**	<1.0	<1.0	**1.3 J**	**1.0 J**	**0.75 J**	<0.005	**120 J**	<3.0	<50	**270**
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015						**28 J**	NS	NS	NS	NS	NS	NS	NS	NS		**1,000**	NS	**20,000**	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	**19,000**	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS		**1,200**	NS	NS	**300**
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**850**	NS	NS	**290**
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**520**
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**490**
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**240**
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017						**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**290**
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**290**
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018						**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**280**
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	< 50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**280**
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**420**
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	**5.2**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**460**
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**190**
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**190**
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS	**16 J**
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**6.3 J**
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016						50 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190 J**	NS	NS	**19 J**
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	8 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**1.7 J**
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017						**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	NS	**29 J**
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**1.8 J**
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**12**
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.6	NS	NS	**7.6**
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018						**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**210**	NS	NS	**18**
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	**4.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**3.4 J**
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018						**73**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS	**27**
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS	**8.6**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	<0.2	**1.3 J**	<5.0	<0.20	<2.0	<4.0	**3.7 J**
MW-33	W-R2330017-060515-ACN-003	6/5/2015	<0.2	**0.57 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33	W-R2330017-111615-AEP-003	11/16/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	<0.2	0.63 J	<5.0	<0.20	<2.0	<4.0	<50
MW-33	W-R2330021-041816-JPM-005	4/18/2016	<0.2	**0.67 J**	<5.0	<0.20	<2.0	<4.0	**3.5 J**
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**14 J**
MW-33	W-R2330021-103116-JPM-005	10/31/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**14 J**
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-33	W-R2330022-042417-DMS-003	4/24/2017	<0.2	**0.68 J**	<5.0	**0.026 J**	<2.0	<4.0	<50
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	<0.2	**1.1 J**	<5.0	**0.043 J**	<2.0	<4.0	**8.6 J**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<0.2	**1.0 J**	<5.0	**0.022 J**	<2.0	**0.54 J**	<50
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330017-111815-JPM-017	11/18/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**4.1 J**
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330021-041916-JPM-013	4/19/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330021-110416-AEM-030	11/4/2016	<0.2	**0.47 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330022-042417-DMS-004	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS

Table 3
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Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene	Xylenes
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)	280 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000	10,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	350	NA	ID	ID	18	28	NA	270	41
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	11,000	ID	ID	ID	320	500	NA	2,600	730
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)	1.9E+05 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	140	1,900	NA	NA	700 (d)	10	NA	36,000	10,000 (d)
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05	1.86E+5 (S)
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	ID	NA	ID	ID	43,000	29,000	NA	61,000	70,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018																			
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**	<3.0
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**	<3.0
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<25	<1.0	<1.0	<50	<50	**6.7**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**	**4.2**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**0.72 J**	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<25	<1.0	<1.0	<50	<50	**2.4**	<1.0	<5.0	<1.0	<5.0	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0	<3.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene
Residential Drinking Water Criteria (II)			ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6
GSI Final Acute Value (FAV)			ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA
Water Solubility (VII)			ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04	206
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-JPM-002	4/23/2018																			
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	**0.13 J**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.28 J**	<10	<10	<4.0	<5.0	<5.0	**0.21 J**	<1.0
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<10	<10	<5.0	<10	<10	<5.0	<10	**0.77 J**	<5.0	<5.0	<10	**0.34 J**	<10	<10	<4.0	<5.0	<5.0	**0.25 J**	<1.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.56 J**	<10	<10	<4.0	<5.0	<5.0	**0.23 J**	<1.0
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<10	<10	**0.19 J**	<10	**0.41 J**	<5.0	<10	**1.6 J**	**0.54 J**	**0.22 J**	**0.79 J**	<5.0	<10	<10	**0.41 J**	**0.35 J**	<5.0	<5.0	<1.0
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	**0.12 J**	<5.0	**0.51 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.14 J**	<1.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																	Metals				
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019						**460**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**81**
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**3.4 J**
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016						**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**160**
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	NS	**150**
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016						**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**150**
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**130**
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017						**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**250**
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**140**
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017						**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**450**	NS	NS	**190**
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**200**
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018						**220.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**580**	NS	NS	**190**
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	**6.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**130**
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018						**940**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**270**
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	**13.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**37**	NS	NS	**49**
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**900**	NS	NS	**350**
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	**8.10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**200**
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015						**150**	**0.15 J**	**9.1**	**24 J**	<1.0	**0.18 J**	**0.41 J**	**0.86 J**	**1.6 J**		**750**	**1.3 J**	<50	**210**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	**0.15 J**	**2.8 J**	**21 J**	<1.0	**0.23 J**	**0.16 J**	**0.60 J**	**1.1 J**	<5.0	**43 J**	<3.0	<50	**72**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015						**8.6 J**	**NS**	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**12,000**	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	**12,000**	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016						**22 J**	NS	NS	NS	NS	NS	NS	NS	NS		**440**	NS	NS	**110**
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**100**
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016						**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	NS	**72**
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130 J**	NS	NS	**68**
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017						**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS	**610**
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**130**
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018						<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**96**
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**98**
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018						**6.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	**34**
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	**80**	NS	NS	**21**
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019						16	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**84**
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**69**
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013						**120,000**	**2.8 J**	**300**	**730 J**	**5.9 J**	**4.0 J**	**240**	**140 J**	**510**		**310,000**	**250**	<50	**5,300**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.37 J**	<2.0	**59 J**	<1.0	**0.071 J**	<10	**8.0 J**	**2.3 J**	<0.005	**71 J**	**0.072 J**	<50	**610**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013						**2,100**	**0.54 J**	**2.1 J**	**65 J**	**0.12 J**	**0.20 J**	**4.6 J**	**9.6 J**	**7.4**		**3,500**	**4.0**	<50	**800**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.37 J**	<2.0	**49 J**	<1.0	**0.064 J**	<10	**5.4 J**	**1.9 J**	<0.005	**150 J**	**0.11 J**	<50	**470**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013						**790**	**0.32 J**	**2.0 J**	**33 J**	<1.0	**0.052 J**	**5.2 J**	**1.5 J**	**2.9 J**		**1,600**	**0.79 J**	<50	**53**
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.43 J**	**0.77 J**	**34 J**	<1.0	<1.0	<10	**2.2 J**	**2.0 J**	**2.3 J**	**770**	<3.0	<50	**53**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013						**38,000 J**	**13 J**	**37 J**	**2,900**	**1.7 J**	**11**	**75 J**	**38 J**	**320**		**73,000**	**1,700**	<50	**1,800**
SB-21	W-R2330009-120513-RD-001	12/5/2013	**0.94 J**	<5.0	<2.0	<5.0	**0.44 J**	**24 J**	**0.97 J**	**2.3 J**	**2,000**	<1.0	<1.0	**1.7 J**	**5.5 J**	**2.3 J**	**6.9**	**13,000**	**0.49 J**	<50	**530**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013						**1,900**	**2.2 J**	<5.0	**1000**	<1.0	<1.0	**8.1 J**	**4.3 J**	**40 J**		**16,000**	**59**	<50	**550**
SB-22	W-R2330009-120513-RD-002	12/5/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.99 J**	**2.0 J**	**960**	<1.0	<1.0	**1.1 J**	**3.9 J**	**2.8 J**	**3.6 J**	**12,000**	**0.21 J**	<50	**560**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013						**3,200**	**2.8 J**	**72**	**880 J**	**1.8 J**	<1.0	**130**	**40 J**	**150**		**8,600**	**86**	<50	**1,600**
SB-23	W-R2330009-120513-RD-003	12/5/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.39 J**	**23**	**690**	<1.0	<1.0	**2.3 J**	**3.0 J**	**1.5 J**	**31**	**12,000**	**0.084 J**	<50	**70**
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013						**6,700**	**2.6 J**	**130**	**860 J**	**3.5 J**	**2.9 J**	**130**	**77 J**	**220**		**190,000**	**150**	<50	**4,100**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I-res}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-13	W-R2330009-121013-AJL-008	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-14	W-R2330009-121013-AJL-007	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	NS	NS	NS	NS	NS	NS	NS
SB-15	W-R2330009-120913-AJL-006	12/9/2013	NS	NS	NS	NS	NS	NS	NS
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-21	W-R2330009-120513-RD-001	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-22	W-R2330009-120513-RD-002	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-23	W-R2330009-120513-RD-003	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	NS	NS	NS	NS	NS	NS	NS

Table 4
Total Depth to Bottom of Wells
and Estimated Sediment Accumulation

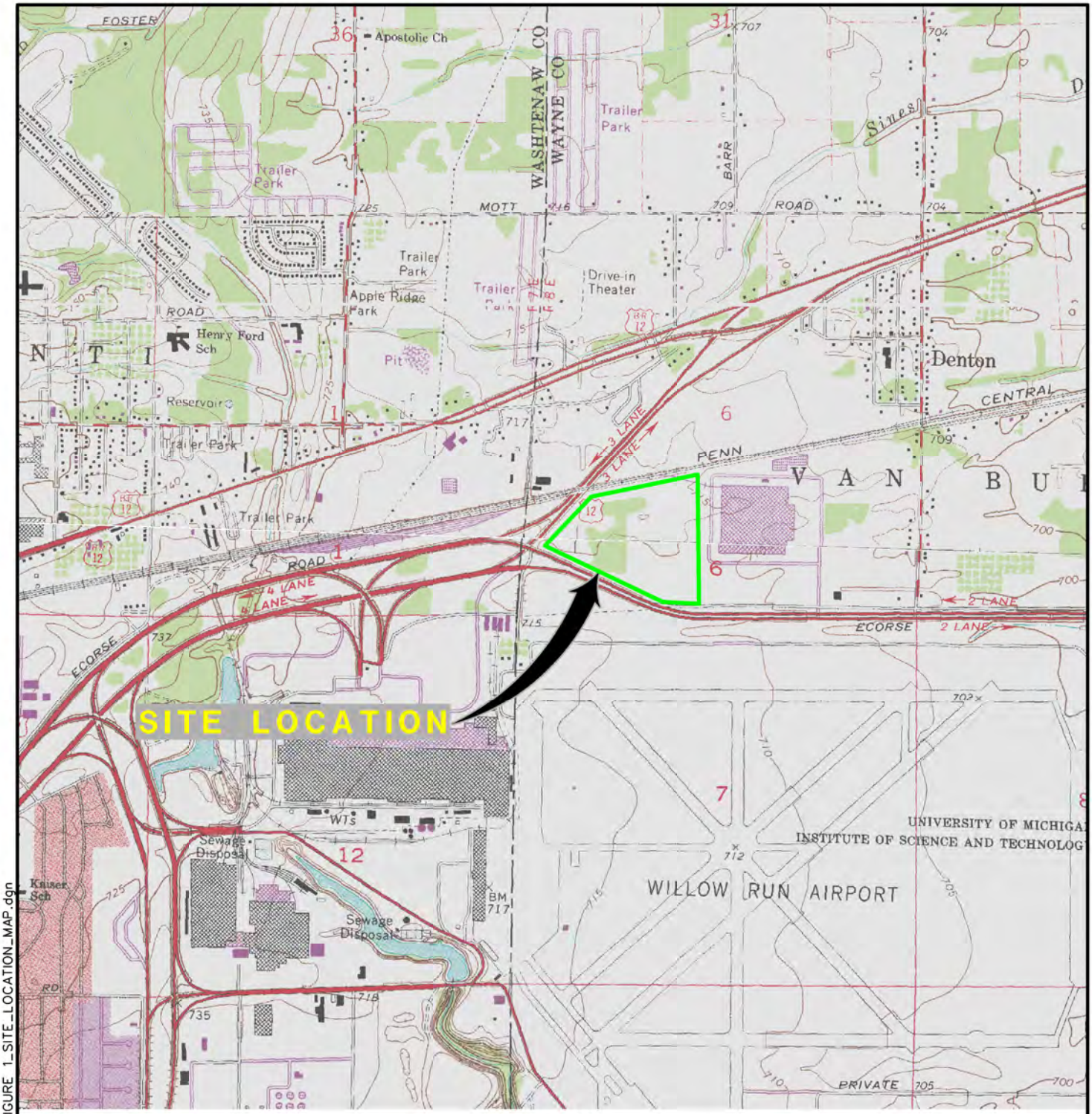
Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

Well ID	Total Depth of Well from TOC[3] (feet)	Total Depth of Well from TOC[3] (feet) 4/29/2019	Estimated Sediment Accumulation
MW-1	21.67	21.30	0.37
MW-3	14.80	13.15	1.65
MW-4	21.60	21.70	-0.10
MW-5	30.02	30	0.02
MW-6	16.38	16.2	0.18
MW-7	8.81	8.8	0.01
MW-8	7.78	ND	ND
MW-9	14.81	14.8	0.01
MW-10	23.45	23.4	0.05
MW-11	18.12	17.1	1.02
MW-12	18.66	17.5	1.16
MW-13	25.94	21.1	4.84
MW-14	17.70	17.6	0.10
MW-15	15.72	16.35	-0.63
MW-16	16.28	16.6	-0.32
MW-17	17.84	17.85	-0.01
MW-18	16.66	15.8	0.86
MW-19	14.63	14.5	0.13
MW-20	15.47	15	0.47
MW-21	15.36	14.2	1.16
MW-22	15.42	14.87	0.55
MW-23	15.74	15.09	0.65
MW-24	16.19	14.4	1.79
MW-25	16.52	16.14	0.38
MW-26	17.19	17.31	-0.12
MW-27	13.97	13.97	0.00
MW-28	21.70	22.8	-1.10
MW-29	12.22	11.7	0.52
MW-30	12.36	12.5	-0.14
MW-31	8.99	9	-0.01
MW-32	9.5	8	1.5
MW-33	18.59	17.9	0.69
MW-34	18.89	13.3	5.59
MW-35	10.48	10	0.48
MW-36	10.29	9.5	0.79
CRA-265M	13.90		
CRA-266M	12.10		
CRA-833M	17.05		
CRA-834M	ND		

Notes:

MW-31, MW-32 and MW-33 were measured and redeveloped on Arpil 7, 2016
MW-3, MW-12, MW-18, MW-32, MW-21, MW-23, MW-22, MW-26, MW-34 were measured and redeveloped in July of 2017

FIGURES



SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



NOTE: MAP ADAPTED FROM USGS TOPOGRAPHIC QUADRANGLES, (MICHIGAN 7.5 MINUTE SERIES) DENTON, MICHIGAN (PHOTOGRAPHS TAKEN 1952 AND REVISE FROM PHOTOGRAPHS TAKEN 1966 AND FIELD CHECKED 1969, REVISED AGAIN IN 1982) AND YPSILANTI EAST, MICHIGAN,(PHOTOGRAPHS TAKEN 1952, AND REVISIONS TAKEN FROM PHOTOGRAPHS TAKEN 1966, AND FIELD CHECKED 1967, REVISED AGAIN IN 1982)

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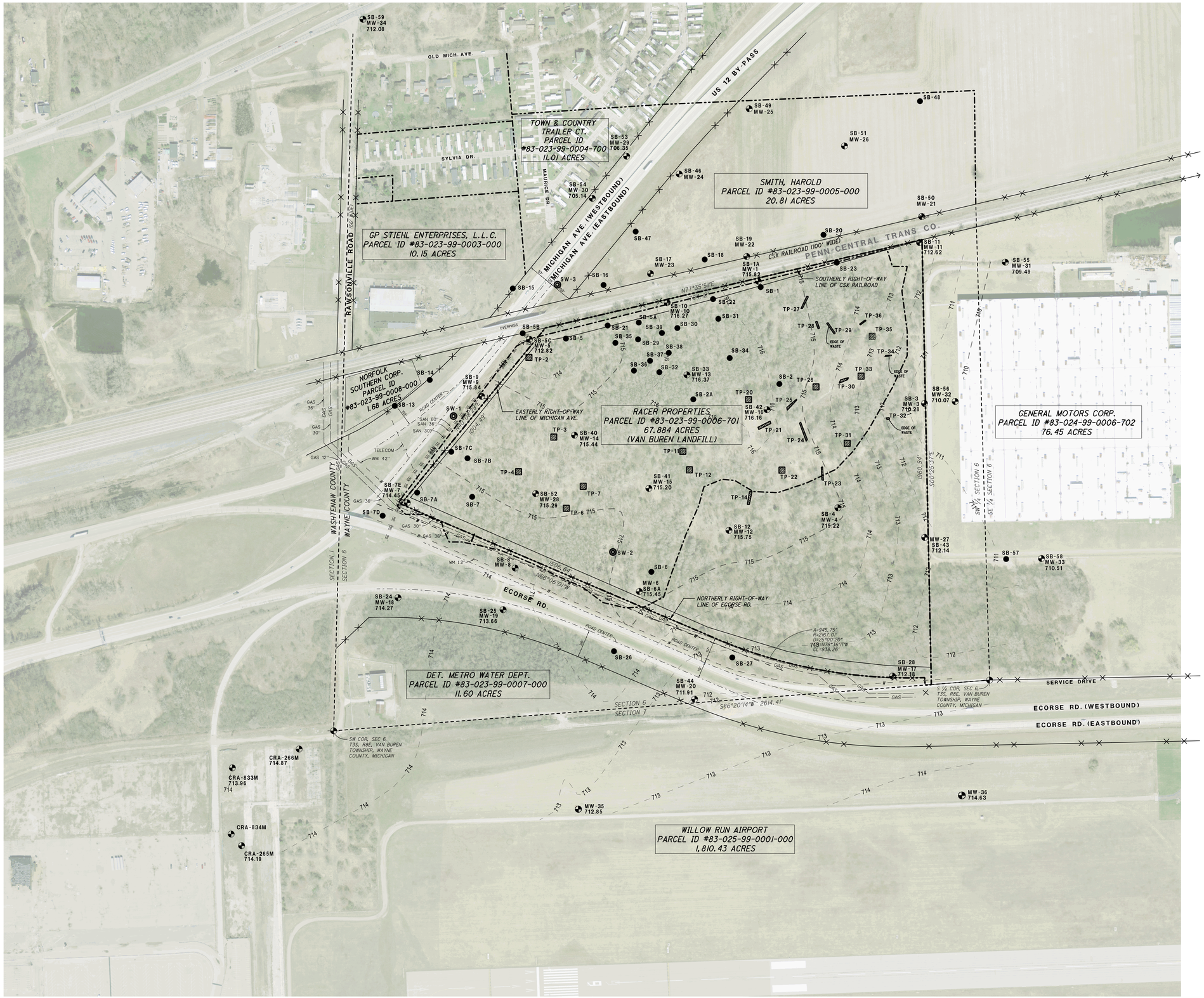
FIGURE 1
SITE LOCATION MAP

VAN BUREN LANDFILL SITE
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN

DATE	DRAWN BY	DESIGNED BY	PROJECT NO.
3/12/14	CJB	MJF	R2330012

W:\Projects\Projects P-T\R2330012\CAD\R2330012_FIGURE 1_SITE_LOCATION_MAP.dgn


SB-59
MW-34
OLD MICH. AVE.
US 12 BY-PASS
SB-48
SMITH, HAROLD
PARCEL ID #83-023-99-0005-000
20.81 ACRES
SB-49
MW-25
SB-51
MW-26
SB-46
MW-24
TOWN & COUNTRY
TRAILER CT.
PARCEL ID
#83-023-99-0004-700
11.01 ACRES
SYLVIA DR.
MAURICE DR.
SB-53
MW-29
SB-54
MW-30
MICHIGAN AVE. (WESTBOUND)
MICHIGAN AVE. (EASTBOUND)
SB-50
MW-21
SB-47
GP STIEHL ENTERPRISES, L.L.C.
PARCEL ID #83-023-99-0003-000
10.15 ACRES
RAWSONVILLE ROAD (66' WIDE)
SB-20
SB-19
MW-22
CSX RAILROAD (100' WIDE)
SB-11
MW-11
SB-55
MW-31
SB-18
SB-17
MW-23
SB-1A
MW-1
SB-16
SB-15
SB-10
MW-10
SB-1
SOUTHERLY RIGHT-OF-WAY
LINE OF CSX RAILROAD
SB-22
SB-31
SB-23
SB-5A
SB-39
SB-30
SB-5B
SB-21
SB-5C
MW-5
SB-5
SB-35
SB-29
SB-38
SB-34
SB-37
SB-36
SB-32
SB-33
MW-13
SB-14
SB-9
MW-9
NORFOLK
SOUTHERN CORP.
PARCEL ID
#83-023-99-0008-000
1.68 ACRES
SB-13
EASTERLY RIGHT-OF-WAY
LINE OF MICHIGAN AVE.
SB-2A
SB-42
MW-16
SB-3
MW-3
MW-32
EDGE OF WASTE
GENERAL MOTORS CORP.
PARCEL ID #83-024-99-0006-702
76.45 ACRES
SW 1/4 SECTION 6
SEC. 24
SB-40
MW-14
SB-7C
SB-7B
SB-41
MW-15
SB-52
MW-23
SB-7E
MW-7
SB-7A
SB-7
SB-7D
SB-4
MW-4
SB-12
MW-12
MW-27
SB-43
SB-57
SB-58
MW-33
SB-6
MW-6
SB-6A
SB-8
MW-8
ECORSE RD.
NORTHERLY RIGHT-OF-WAY
LINE OF ECORSE RD.
RACER PROPERTIES
PARCEL ID #83-023-99-0006-701
67.884 ACRES
(VAN BUREN LANDFILL)
SB-24
MW-18
SB-25
MW-19
SB-26
SB-27
SB-28
MW-07
S 1/4 COR, SEC 6,
T3S, R8E, VAN BUREN
TOWNSHIP, WAYNE
COUNTY, MICHIGAN
SERVICE DRIVE
ECORSE RD. (WESTBOUND)
ECORSE RD. (EASTBOUND)
DET. METRO WATER DEPT.
PARCEL ID #83-023-99-0007-000
11.60 ACRES
SB-44
MW-20
S86°20'14"W 2614.41'
SECTION 6
SECTION 7
WILLOW RUN AIRPORT
PARCEL ID #83-025-99-0001-000
1,810.43 ACRES
SW COR, SEC 6,
T3S, R8E, VAN BUREN
TOWNSHIP, WAYNE
COUNTY, MICHIGAN
CRA-266M
CRA-833M
CRA-834M
CRA-265M
SB-60
MW-35
SB-61
MW-36
WASHTENAW COUNTY
WAYNE COUNTY
SECTION 1
SECTION 6
ROAD CENTER
GAS 36"
GAS 30"
TELECOM
WM 42"
WM 12"
SAN 30"
SAN 36"
SAN MH
STORM MH
STORM CB
WM 8"
WM 6"
WM 4"
GAS 12"
GAS 8"
TELECOM
OHP
SW 1
SW 2
SW 3
SW 4
SW 5
SW 6
SW 7
SW 8
SW 9
SW 10
SW 11
SW 12
SW 13
SW 14
SW 15
SW 16
SW 17
SW 18
SW 19
SW 20
SW



LEGEND

- PROPERTY LINE
- R/W LINE
- FENCE
- EXTENT OF EARTH DISTRUBANCE BASED ON APRIL 26, 1970 AERIAL PHOTO
- GAS — EXISTING GAS MAIN
- FO — EXISTING FIBER OPTIC CABLE
- W — EXISTING FIRE WATER
- W — EXISTING WATER MAIN
- GROUND WATER ELEVATION CONTOUR (FEET ABOVE MSL)
- ST (3) — THREE EX. PARALLEL STORM SEWERS
- SURFACE WATER SAMPLE LOCATION
- SOIL BORING LOCATION
- 712.36 — MONITORING WELL LOCATION WITH GROUND WATER ELEVATION (FEET ABOVE MSL)
- TP-32 — TEST PIT LOCATION

GENERAL NOTES:

1. AERIAL PHOTO FROM SEMCOG DATED 2010.
2. UTILITY LOCATIONS BASED ON INFORMATION FROM SAP/QAPP AND MISS DIG UTILITY MARKINGS.
3. MW-29, MW-30 & MW-34 WAS NOT USED IN CONTOURING.

NO.	DATE	BY	DESCRIPTION
1	7/14/14	CJB	PHASE III SITE INVESTIGATION SAMPLING LOCATIONS

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Revitalizing Auto Communities Environmental Response Trust

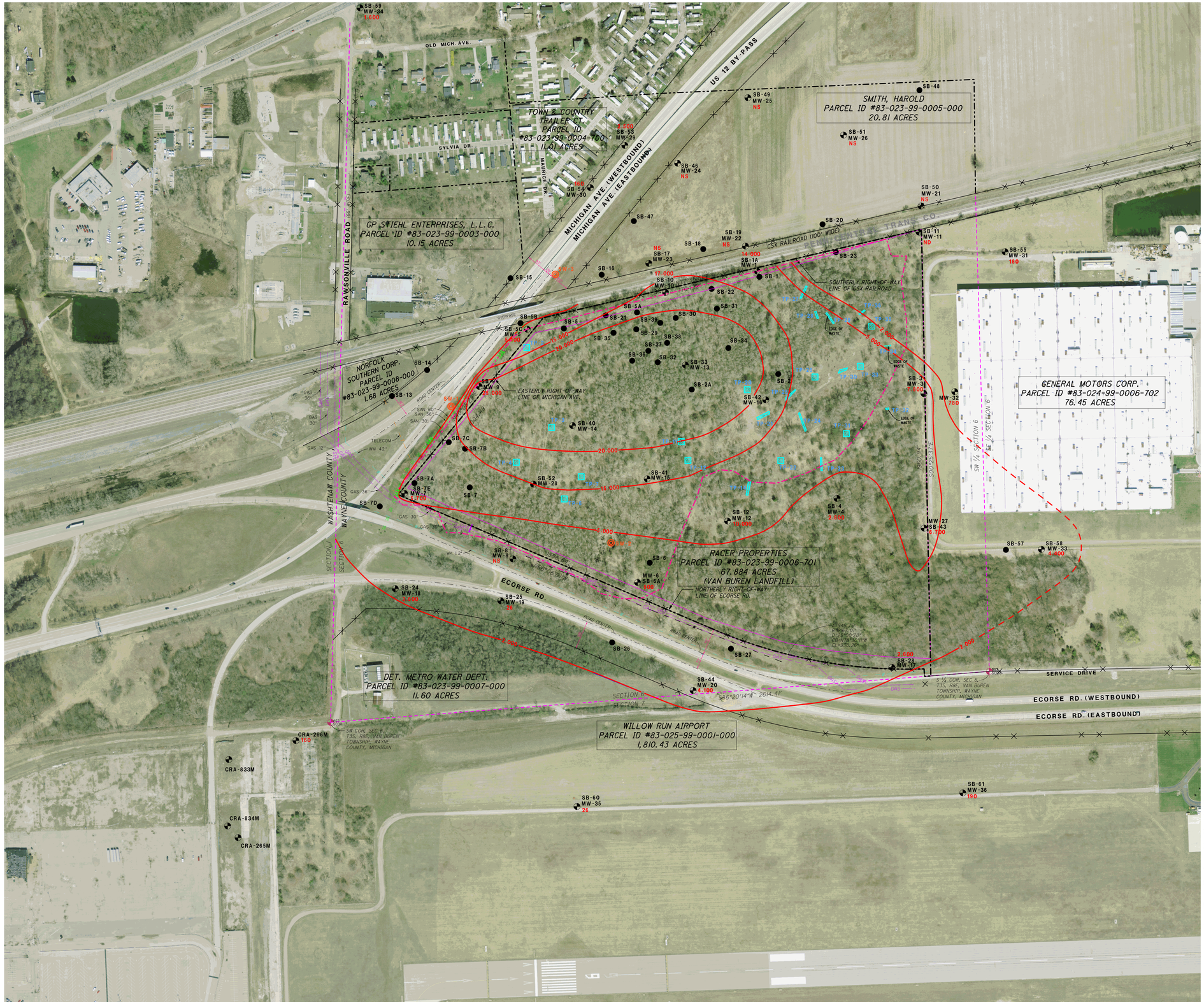
PACER

VAN BUREN LANDFILL SITE (11070)
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TWP., WAYNE CO. MICHIGAN

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP (MAY 2019)

6/5/2019

W:\Projects\Projects P-T\R2330025\CAD\BASE\R2330025.GW_Fig2_GW_Flow_May-2019.dgn



GENERAL NOTES:

1. WELLS WERE ANALYZED FOR Fe, Al AND Mn (TOTALS AND DISSOLVED).
2. AERIAL PHOTO FROM SEMCOG DATED 2010.
3. UTILITY LOCATIONS BASED ON INFORMATION FROM SAP/OAPP AND MISS DIG UTILITY MARKINGS.
4. ALL RESULTS EXPRESSED IN MICROGRAMS PER LITER.
5. ISOCONTOURS NOT GENERATED USING MW-34, MW-8, CRA-266, SW-1, SW-2 AND SW-3.
6. RESIDENTIAL HEALTH BASED DRINKING WATER CRITERIA FOR IRON IS 2,000 ug/L.
7. MW-21, MW-22, MW-23, MW-24, MW-25 AND MW-26 WERE NOT SAMPLED DUE TO NEW OWNERSHIP AND NO ACCESS.

NO.	DATE	BY	DESCRIPTION
1	7/14/14	CJB	PHASE III SITE INVESTIGATION SAMPLING LOCATIONS

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RACER

VAN BUREN LANDFILL SITE (11070)
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TWP., WAYNE CO. MICHIGAN

FIGURE 4
DISSOLVED IRON
ISOCONCENTRATION MAP
(MAY 2019)

8/14/2019

W:\Projects\Projects P-T\R2330025\CAD\BASE\R2330025_Dissolved_Iron_Isoconcentration_Map FIG_4_May-2019.dgn

ATTACHMENT 1

LOW FLOW GROUND WATER FIELD SAMPLING FORMS

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/1/19

SAMPLE LOCATION: MW-1

PERSONNEL: SSR

OBSERVERS: _____

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 52°F

DEPTH OF WELL: 21.30

DEPTH TO WATER LEVEL: 8.01

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1320										
1335	8.00	53.2	1.76	1.41	7.77	-69	30.4			
1340	8.00	53.0	2.33	1.24	7.79	-80	22.7			
1345	8.00	52.3	2.38	1.20	7.71	-87	20.2			
1350	8.00	52.3	2.41	1.19	7.79	-89	19.6			

SAMPLE ID: W-R2330025-050119-SSR-018

SAMPLE DATE: 5/1/19

SAMPLE TIME: 1350

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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SAMPLE LOCATION: MW-3

DATE: 5/6/19

PROJECT #: R2330024

PERSONNEL: SSR

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: 13.5

DEPTH TO WATER LEVEL: 4.00

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1210										
1225	4.00	69.7	2.48	2.26	7.35	-109	416	0.2		
1230	4.00	69.4	2.50	2.01	7.34	-111	400	0.2		
1235	4.00	69.3	2.47	1.73	7.35	-114	352	0.3		
1240	4.00	69.3	2.46	1.75	7.36	-113	341	0.3		
1245	4.00	69.4	2.47	1.73	7.35	-111	301	0.4		

SAMPLE ID: W-R2330025-050619-SSR-C32

SAMPLE DATE: 5/6/19

SAMPLE TIME: 1245

Notes: MW-13 DTW: 11.6 DTB: 21.1

MW-16 DTW: 9.00 DTB: 16.6

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/3/19

SAMPLE LOCATION: MW-4

PERSONNEL: ADH

OBSERVERS: _____

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 60°F

DEPTH OF WELL: 21.7

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 8.5

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
9:25										
940	8.8	48.7	2.35	2.05	7.04	-125	7.2			
945	8.8	47.8	2.53	4.82	7.05	-133	7.3			
950	8.8	47.3	2.69	1.98	7.07	-142	9.3			
955	8.8	47.0	2.73	1.93	7.04	-144	8.8			
1000	8.8	47.0	2.76	1.90	7.10	-148	8.3			

SAMPLE ID: W-R2330025-050319-ADH-024

SAMPLE DATE: 5/3/19

SAMPLE TIME: 1005

Notes: Dup-2 taken here Sample ID: W-R2330025-050319-ADH-023

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/1/19

SAMPLE LOCATION: MW-5

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: SSR

OBSERVERS: _____

SITE CONDITIONS: Overcast 55° F

DEPTH OF WELL: 30.0

DEPTH TO WATER LEVEL: 6.80

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1145										
1200	6.9	55.4	2.69	1.33	7.81	-103	31.3	1.2		
1205	6.9	55.4	2.69	1.28	7.80	-106	30.6	1.4		
1210	6.9	55.5	2.68	1.27	7.80	-108	29.7	1.6		

SAMPLE ID: W-R2330025-050119-SSR-016

SAMPLE DATE: 5/1/19

SAMPLE TIME: 1210

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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SAMPLE LOCATION: MW-6

DATE: 5/6/19

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: ADH, SSR

OBSERVERS:

SITE CONDITIONS: SUNNY 60s°F

DEPTH OF WELL: 16.20

DEPTH TO WATER LEVEL: 3.02

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE: Teflon Line PE

CASING TYPE:

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1420										
1435	3.00	57.4	1.06	2.10	7.47	-80	78.3	0.1		
1440	3.00	57.0	1.01	1.91	7.61	-76	38.2	0.1		
1445	3.00	56.9	0.966	1.76	7.53	-71	36.5	0.1		
1450	3.00	57.0	0.963	1.80	7.53	-74	31.5	0.2		

SAMPLE ID: W-R2330025-050619-ADH-029

SAMPLE DATE: 5/6/19

SAMPLE TIME: 1450

Notes:

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 4/29/19

PERSONNEL: SSR

OBSERVERS: _____

DEPTH OF WELL: 8.80

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: MW-7

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 44°F

DEPTH TO WATER LEVEL: 2.40

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1400										
1415	2.73	46.2	2.34	1.78	9.06	-97	16.8	0.75		
1420	2.73	46.2	2.35	1.76	9.05	-94	17.0	1.4		
1425	2.73	46.1	2.36	1.77	9.07	-93	16.2	2		
1430										

SAMPLE ID: W-R2330025-042919-SSR-003

SAMPLE DATE: 4/29/19

SAMPLE TIME: 1427

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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SAMPLE LOCATION: MW-8

DATE: 10/6/19

PROJECT #: R2330024

PERSONNEL: ADH, SRD

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: _____

DEPTH TO WATER LEVEL: _____

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES

FLOODED

SAMPLE ID: MW-8-10-6-19-ADH-2019

SAMPLE DATE: 10/6/19

SAMPLE TIME: _____

Notes: * Flooded No sample Taken!

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

* Need Filter

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/1/19

SAMPLE LOCATION: MW-9

PERSONNEL: SSR

OBSERVERS: _____

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 56°F

DEPTH OF WELL: 14.80

DEPTH TO WATER LEVEL: 5.33

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1100										
1115	5.63	53.7	1.92	1.58	7.87	-86	153	0.3		
1120	5.63	53.8	1.88	1.45	7.85	-91	149	0.5		
1125	5.63	53.9	1.90	1.36	7.84	-94	139	0.7		
1130										

SAMPLE ID: W-R2330025-050119-SSR-015

SAMPLE DATE: 5/1/19

SAMPLE TIME: 1125

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/1/19

PERSONNEL: SSR

OBSERVERS: _____

DEPTH OF WELL: 23.40

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: MW-10 *VOCs

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 55°F

DEPTH TO WATER LEVEL: 11.60

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1230										
1245	11.6	52.2	294	1.24	7.80	-83	52.3	1		
1250	11.6	52.4	2.94	1.23	7.82	-86	47.9	1.1		
1255	11.6	52.4	2.90	1.18	7.78	-88	47.2	1.2		

SAMPLE ID: W-R2330025-050119-SSR-017

SAMPLE DATE: 5/1/19

SAMPLE TIME: 1255

Notes: * VOCs

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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SAMPLE LOCATION: MW-11

DATE: 5/6/19

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: ADH, SSR

SITE CONDITIONS: 68° F, Partly Cloudy

OBSERVERS:

DEPTH TO WATER LEVEL: 5.7

DEPTH OF WELL:

WELL DIAMETER:

SCREEN LENGTH:

CASING TYPE:

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1035										
1050	5.7	67.0	.767	6.17	7.78	180	149			
1055	5.7	64.7	.742	4.52	7.68	188	184			
1100	5.7	63.9	.742	3.70	7.61	194	137			
1105	5.7	62.9	.750	3.26	7.53	203	80.9			
1110	5.7	63.0	.755	3.09	7.48	207	60.5			
1115	5.7	62.7	.766	2.96	7.49	210	48.1			
1120	5.7	62.4	.775	3.03	7.49	212	39.6			
1125	5.7	61.8	.785	2.78	7.50	213	33.6			
1130	5.7	61.7	.800	2.68	7.50	214	30.9			
1135	5.7	61.5	.804	2.68	7.50	214	31.0			

SAMPLE ID: W-R2330025-050619-ADH-030

SAMPLE DATE: 5/6/19

SAMPLE TIME: 1140

Notes:

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/2/19

PERSONNEL: SSR

OBSERVERS: _____

DEPTH OF WELL: 17.5

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: MW-12

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH TO WATER LEVEL: 6.22

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
930										
945	6.2	47.5	1.17	6.55	7.75	27	315	0.7		
950	6.2	47.2	1.41	2.01	7.77	-30	210	0.2		
955	6.2	47.1	1.01	2.00	7.79	-29	105	0.9		
1000	6.2	47.0	1.46	1.91	7.80	-32	109	1.1		
1005	6.2	47.1	1.37	1.95	7.80	-37	107	1.1		

SAMPLE ID: W-R2330025-050219-SSR-020

SAMPLE DATE: 5/2/19

SAMPLE TIME: 1005

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

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DATE: 5/1/19

SAMPLE LOCATION: MW-17

PROJECT #: R2330025

PERSONNEL: SSR

OBSERVERS: _____

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast

DEPTH OF WELL: 17.85

DEPTH TO WATER LEVEL: 4.90

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
745										
800	4.9	59.4	2.13	1.34	7.91	-18	258	0.7		
805	4.9	58.6	2.14	1.36	7.92	-36	225	0.8		
810	4.9	57.6	2.15	1.33	7.92	-46	168	0.9		
815	4.9	55.11	2.18	1.30	7.90	-54	68.3	1		
820	4.9	55.0	2.20	1.31	7.89	-60	63.0	1.2		
825	4.9	54.2	2.23	1.31	7.89	-64	61.1	1.5		

SAMPLE ID: W-R2330025-050119-SSR-013

SAMPLE DATE: 5/1/19

SAMPLE TIME: 825

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

248 921 9809 K

734 796-6266 A

7:30 FRI

Bill

734-277-8219

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 4/30/19

SAMPLE LOCATION: MW-18

PERSONNEL: SSR

OBSERVERS: _____

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 46°F

DEPTH OF WELL: 15.8

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 0.6

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1200										
1215	1.75	45.4	3.06	1.91	8.03	104	182	0.5		
1220	1.75	45.2	3.03	1.72	8.04	55	135	0.6		
1225	1.75	45.2	3.15	1.62	8.04	13	95	0.7		
1230	1.75	45.2	3.18	1.58	8.03	-1	94.4	0.8		
1235	1.75	45.2	3.20	1.51	8.03	-11	72.3	0.9		
1240	1.75	45.3	3.22	1.46	8.02	-23	69.9	1		
1245	1.75	45.3	3.20	1.49	8.02	-26	67.9	1.1		
1250	1.75	45.3	3.20	1.51	8.02	-26	65.9	1.2		

SAMPLE ID: W-R2330025-043019-SSR-007

SAMPLE DATE: 4/30/19

SAMPLE TIME: 1255

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 4/30/19

SAMPLE LOCATION: MW-19

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: SSR

OBSERVERS: _____

SITE CONDITIONS: Overcast 46°F

DEPTH OF WELL: 14.5

DEPTH TO WATER LEVEL: 1.7

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1310										
1325	1.81	46.7	6.33	2.10	8.03	-4	650	1		
1330	1.81	46.6	6.38	1.95	8.03	-19	430	1.2		
1335	1.81	47.0	6.38	1.92	8.03	-25	234	1.4		
1340	1.81	47.2	6.36	1.95	8.03	-27	170	1.6		
1345	1.81	47.3	6.35	1.96	8.03	-27	150	1.8		
1350	1.81	47.4	6.33	1.92	8.03	-29	115	2		
1355	1.81	47.5	6.31	1.88	8.04	-29	94	2.2		
1400	1.81	47.7	6.28	1.76	8.04	-31	81	2.4		
1405	1.81	47.7	6.25	1.71	8.04	-33	70	2.6		

SAMPLE ID: MW-R2330025-043019-SSR-008

SAMPLE DATE: 4/30/19

SAMPLE TIME: 1405

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 4/30/19

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: MW-20

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 46°F

DEPTH OF WELL: 15.0

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 4.16

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1430										
1445	4.75	46.0	2.42	1.75	7.95	-32	635	0.3		
1450	4.75	45.8	2.43	1.53	7.97	-50	475	0.4		
1455	4.75	45.7	2.44	1.44	7.97	-55	374	0.5		
1500	4.75	45.5	2.46	1.40	7.98	-58	257	0.7		
1505	4.75	45.6	2.44	1.51	7.97	-58	160	0.9		
1510	4.75	45.6	2.43	1.64	7.97	-55	146	1.1		
1515	4.75	45.6	2.43	1.74	7.95	-67	130	1.3		

SAMPLE ID: W-R2330025-043019-SSR-009

SAMPLE DATE: 4/30/19

SAMPLE TIME: 1515

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-27

DATE: 5/6/19

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: _____

DEPTH OF WELL: 13.97

DEPTH TO WATER LEVEL: 2.75

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1315										
1330	2.75	56.8	2.14	2.10	7.33	-120	20.0	0.1		
1335	2.75	57.4	2.15	1.97	7.31	-122	15.8	0.1		
1340	2.75	57.7	2.15	1.85	7.31	-124	12.9	0.1		
1345	2.75	57.6	2.15	1.81	7.31	-125	12.8	0.2		

SAMPLE ID: W-R2330025-050919-SSR-031

SAMPLE DATE: 5/6/19

SAMPLE TIME: 1345

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-29

DATE: 4/30/19

PROJECT #: R2330024

PERSONNEL: SSR

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 46°F

DEPTH OF WELL: 11.7

DEPTH TO WATER LEVEL: 4.1

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
912										
927	4.4	49.0	0.888	2.43	8.01	-84	16.9	0.2		
932	4.4	49.2	0.907	2.23	8.00	-83	15.1	0.25		
937	4.4	49.0	0.914	2.09	8.00	-82	14.4	0.3		
942	4.4	48.8	0.922	1.98	7.99	-81	14.1	0.35		

SAMPLE ID: W-R2330025-043019-SSR-005

SAMPLE DATE: 4/30/19

SAMPLE TIME: 945

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 4/30/19

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: MW-30

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 46°F

DEPTH OF WELL: 12.5

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 3.4

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1006										
1021	3.5	48.5	0.430	2.30	7.96	133	13.4	1		
1026	3.5	48.5	0.435	2.19	7.95	116	13.5	1.5		
1031	3.5	48.5	0.438	2.01	7.96	109	13.5	1.75		
1036	3.5	48.4	0.440	1.71	7.95	107	13.7	2		
1041	3.5	48.5	0.442	1.63	7.96	81	13.7	2.2		
1046	3.5	48.4	0.443	1.61	7.95	64	13.8	2.5		
1051	3.5	48.4	0.444	1.91	7.95	50	13.9	2.7		
1056	3.5	48.4	0.444	1.64	7.95	38	13.7	3		
1101	3.5	48.5	0.444	1.85	7.96	25	13.5	3.2		

SAMPLE ID: W-R2330025-043019-SSR-0060

SAMPLE DATE: 4/30/19

SAMPLE TIME: 1105

Notes: Dup-1 taken here Sample ID: W-R2330025-043019-SSR-011

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 4/30/19

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: MW-34

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 46°F Sprinkles

DEPTH OF WELL: 13.3

DEPTH TO WATER LEVEL: 3.1

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1610										
1625	3.21	46.7	1.29	1.72	7.90	-82	20.2	1		
1630	3.21	46.7	1.29	1.68	7.89	-81	20.1	1.5		
1635	3.21	46.7	1.31	1.58	7.89	-74	20.1	2		

SAMPLE ID: W-R2330025-043019-SSR-010

SAMPLE DATE: 4/30/19

SAMPLE TIME: 1635

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 4/29/19

PERSONNEL: SSR, JPM

OBSERVERS: WCAA

SAMPLE LOCATION: MW-35 MW-33

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 45°F

DEPTH OF WELL: 10.00

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 2.40

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
930										
945	2.42	52.7	0.437	8.01	9.29	-142	625	0.1		
950	2.42	51.6	0.435	7.45	9.34	-145	460	0.2		
955	2.43	50.4	0.438	6.84	9.41	-148	315	0.3		
1000	2.43	50.0	0.440	6.83	9.47	-152	228	0.4		
1005	2.43	49.2	0.446	6.65	9.52	-154	179	0.4		
1010	2.43	48.9	0.448	6.70	9.55	-156	147	0.5		
1015	2.43	48.6	0.449	6.81	9.58	-157	121	0.6		
1020	2.43	48.3	0.450	6.84	9.59	-158	97.8	0.7		
1025	2.43	47.9	0.451	6.77	9.62	-159	71.2	0.8		
1030	2.43	47.4	0.454	6.55	9.59	-157	50.8	0.9		

SAMPLE ID: R2330025-042919-SSR-001

SAMPLE DATE: 4/29/19

SAMPLE TIME: 1030

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL.

SAMPLE LOCATION: MW-36

DATE: 4/29/19

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: JPM, SSR

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: WCMA

SITE CONDITIONS: RAINY 44°F

DEPTH OF WELL: 9.5

DEPTH TO WATER LEVEL: 1.62

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1105	.6	48.1	.965	4.45	8.64	269	260	.3		
1110	.6	47.9	.937	4.19	8.56	-53	169	.75		
1115	.6	47.7	.951	3.49	8.52	267	141	1		
1120	.6	47.6	.962	3.35	8.51	264	130	1.3		
1126	.6	47.4	.971	3.10	8.50	263	110	1.65		
1130	.6	47.3	.973	2.97	8.50	266	78.4	1.9		
1135	.6	47.2	.973	3.02	8.50	258	62.0	2.2		
1140	.6	47.3	.964	3.13	8.50	256	55.4	2.6		
1145	.6	47.3	.963	3.59	8.51	254	58.6	3		
1150	.6	47.4	.929	3.76	8.51	252	52.6	3.2		

SAMPLE ID: R2330025-042919-JPM-002

SAMPLE DATE: 4/29/19

SAMPLE TIME: 1154

Notes: Started purging @ 1050

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 5/1/19

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: CRA-2606M

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast + 46°F

DEPTH OF WELL: 12.1

DEPTH TO WATER LEVEL: 2.1

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
905										
920	2.1	46.8	0.493	1.65	7.79	169	14.4	0.5		
925	2.1	46.8	0.491	1.63	7.79	165	14.3	0.6		
930	2.1	46.9	0.489	1.57	7.79	159	13.9	0.7		

SAMPLE ID: W-R2330025-050119-SSR-014

SAMPLE DATE: 5/1/19

SAMPLE TIME: 930

Notes:
CRA 833-M DTW: 5.85 DTB: 17.05
CRA 2605M 4.90 13.90
Could not find CRA-834 M

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

ATTACHMENT 2

LABORATORY ANALYTICAL DATA REPORTS

20-May-2019

Jason Martinez
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Re: **RACER - Van Buren Landfill** Work Order: **19050582**

Dear Jason,

ALS Environmental received 32 samples on 09-May-2019 08:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 54.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Bill Carey

Bill Carey
Project Manager

Report of Laboratory Analysis

ALS Group, USA

Date: 20-May-19

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: **19050582**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19050582-01	W-R2330025-042919-SSR-001	Water		4/29/2019 10:30	5/9/2019 08:00	☐
19050582-02	W-R2330025-042919-SSR-003	Water		4/29/2019 14:27	5/9/2019 08:00	☐
19050582-03	W-R2330025-042919-JPM-002	Water		4/29/2019 11:54	5/9/2019 08:00	☐
19050582-04	W-R2330025-042919-SSR-004	Water		4/29/2019 16:30	5/9/2019 08:00	☐
19050582-05	W-R2330025-043019-SSR-005	Water		4/30/2019 09:45	5/9/2019 08:00	☐
19050582-06	W-R2330025-043019-SSR-006	Water		4/30/2019 11:05	5/9/2019 08:00	☐
19050582-07	W-R2330025-043019-SSR-007	Water		4/30/2019 12:55	5/9/2019 08:00	☐
19050582-08	W-R2330025-043019-SSR-008	Water		4/30/2019 14:05	5/9/2019 08:00	☐
19050582-09	W-R2330025-043019-SSR-009	Water		4/30/2019 15:15	5/9/2019 08:00	☐
19050582-10	W-R2330025-043019-SSR-010	Water		4/30/2019 16:35	5/9/2019 08:00	☐
19050582-11	W-R2330025-043019-SSR-011	Water		4/30/2019	5/9/2019 08:00	☐
19050582-12	W-R2330025-043019-SSR-012	Water		4/30/2019 16:45	5/9/2019 08:00	☐
19050582-13	W-R2330025-050119-SSR-013	Water		5/1/2019 08:25	5/9/2019 08:00	☐
19050582-14	W-R2330025-050119-SSR-014	Water		5/1/2019 09:30	5/9/2019 08:00	☐
19050582-15	W-R2330025-050119-SSR-015	Water		5/1/2019 11:25	5/9/2019 08:00	☐
19050582-16	W-R2330025-050119-SSR-016	Water		5/1/2019 12:10	5/9/2019 08:00	☐
19050582-17	W-R2330025-050119-SSR-017	Water		5/1/2019 12:55	5/9/2019 08:00	☐
19050582-18	W-R2330025-050119-SSR-018	Water		5/1/2019 13:50	5/9/2019 08:00	☐
19050582-19	W-R2330025-050119-SSR-019	Water		5/1/2019 14:45	5/9/2019 08:00	☐
19050582-20	W-R2330025-050219-SSR-020	Water		5/2/2019 10:05	5/9/2019 08:00	☐
19050582-22	W-R2330025-050319-ADH-023	Water		5/3/2019	5/9/2019 08:00	☐
19050582-23	W-R2330025-050319-ADH-024	Water		5/3/2019 10:05	5/9/2019 08:00	☐
19050582-24	W-R2330025-050319-ADH-025	Water		5/3/2019 13:10	5/9/2019 08:00	☐
19050582-25	W-R2330025-050319-SSR-026	Water		5/3/2019 13:25	5/9/2019 08:00	☐
19050582-26	W-R2330025-050319-SSR-027	Water		5/3/2019 14:50	5/9/2019 08:00	☐
19050582-27	W-R2330025-050319-SSR-028	Water		5/3/2019 15:00	5/9/2019 08:00	☐
19050582-28	W-R2330025-050619-ADH-029	Water		5/6/2019 14:50	5/9/2019 08:00	☐
19050582-29	W-R2330025-050619-ADH-030	Water		5/6/2019 11:40	5/9/2019 08:00	☐
19050582-30	W-R2330025-050619-SSR-031	Water		5/6/2019 13:45	5/9/2019 08:00	☐
19050582-31	W-R2330025-050619-SSR-032	Water		5/6/2019 12:45	5/9/2019 08:00	☐
19050582-32	W-R2330025-050619-SSR-033	Water		5/6/2019 15:11	5/9/2019 08:00	☐
19050582-33	Trip Blank	Water		5/6/2019	5/9/2019 08:00	☐

ALS Group, USA

Date: 20-May-19

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
WorkOrder: **19050582**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-042919-SSR-001
Collection Date: 4/29/2019 10:30 AM

Work Order: 19050582
Lab ID: 19050582-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.46**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:21
Iron	**1.5**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:21
Manganese	**0.081**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:21
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.0073**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:26
Iron	**0.026**	J	**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:26
Manganese	**0.0034**	J	**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-042919-SSR-003
Collection Date: 4/29/2019 02:27 PM

Work Order: 19050582
Lab ID: 19050582-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.067**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:27
Iron	**6.0**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:27
Manganese	**0.67**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:27
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.0045**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:29
Iron	**5.7**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:29
Manganese	**0.69**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-042919-JPM-002
Collection Date: 4/29/2019 11:54 AM

Work Order: 19050582
Lab ID: 19050582-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.40**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:31
Iron	**0.90**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:31
Manganese	**0.35**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:31
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.0081**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:33
Iron	**0.19**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:33
Manganese	**0.20**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-042919-SSR-004
Collection Date: 4/29/2019 04:30 PM

Work Order: 19050582
Lab ID: 19050582-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.020**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:34
Iron	**0.53**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:34
Manganese	**0.0028**	J	**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:34
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.0076**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:36
Iron	**0.22**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:36
Manganese	**0.00071**	J	**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-005
Collection Date: 4/30/2019 09:45 AM

Work Order: 19050582
Lab ID: 19050582-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.23**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:41
Iron	**4.9**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:41
Manganese	**0.16**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:41
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	U		0.0026	0.010	mg/L	1	5/13/2019 20:42
Iron	**2.5**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:42
Manganese	**0.18**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-006
Collection Date: 4/30/2019 11:05 AM

Work Order: 19050582
Lab ID: 19050582-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**1.2**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:44
Iron	**2.0**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:44
Manganese	**0.081**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:44
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.0082**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:46
Iron	**0.16**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:46
Manganese	**0.092**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-007
Collection Date: 4/30/2019 12:55 PM

Work Order: 19050582
Lab ID: 19050582-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**1.3**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:47
Iron	**3.8**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:47
Manganese	**0.25**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:47
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.012**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:49
Iron	**1.5**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:49
Manganese	**0.19**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-008
Collection Date: 4/30/2019 02:05 PM

Work Order: 19050582
Lab ID: 19050582-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**1.2**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:51
Iron	**4.9**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:51
Manganese	**0.42**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:51
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.022**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:53
Iron	**3.5**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:53
Manganese	**0.40**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-009
Collection Date: 4/30/2019 03:15 PM

Work Order: 19050582
Lab ID: 19050582-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**1.7**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:54
Iron	**6.9**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:54
Manganese	**0.25**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:54
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.017**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 20:56
Iron	**4.1**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 20:56
Manganese	**0.20**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 20:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-010
Collection Date: 4/30/2019 04:35 PM

Work Order: 19050582
Lab ID: 19050582-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.14**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:01
Iron	**2.0**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:01
Manganese	**0.19**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:01
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135877							
Aluminum	**0.0078**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:03
Iron	**1.6**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:03
Manganese	**0.19**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-011
Collection Date: 4/30/2019

Work Order: 19050582
Lab ID: 19050582-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.41**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:08
Iron	**1.6**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:08
Manganese	**0.10**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:08
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0096**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:13
Iron	**0.25**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:13
Manganese	**0.068**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-043019-SSR-012
Collection Date: 4/30/2019 04:45 PM

Work Order: 19050582
Lab ID: 19050582-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	U		0.0026	0.010	mg/L	1	5/13/2019 21:15
Iron	**0.041**	J	**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:15
Manganese	**0.00076**	J	**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:15
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	U		0.0026	0.010	mg/L	1	5/13/2019 21:16
Iron	**0.27**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:16
Manganese	**0.00067**	J	**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-013
Collection Date: 5/1/2019 08:25 AM

Work Order: 19050582
Lab ID: 19050582-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.20**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:21
Iron	**3.3**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:21
Manganese	**0.45**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:21
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0079**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:23
Iron	**2.6**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:23
Manganese	**0.45**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-014
Collection Date: 5/1/2019 09:30 AM

Work Order: 19050582
Lab ID: 19050582-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.016**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:24
Iron	**0.25**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:24
Manganese	**0.084**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:24
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	U		0.0026	0.010	mg/L	1	5/13/2019 21:26
Iron	**0.16**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:26
Manganese	**0.069**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-015
Collection Date: 5/1/2019 11:25 AM

Work Order: 19050582
Lab ID: 19050582-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.037**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:28
Iron	**28**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:28
Manganese	**0.27**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:28
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0032**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:30
Iron	**25**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:30
Manganese	**0.26**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-016
Collection Date: 5/1/2019 12:10 PM

Work Order: 19050582
Lab ID: 19050582-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.70**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:32
Iron	**7.1**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:32
Manganese	**0.12**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:32
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0070**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:33
Iron	**5.1**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:33
Manganese	**0.087**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-017
Collection Date: 5/1/2019 12:55 PM

Work Order: 19050582
Lab ID: 19050582-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.15**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:35
Iron	**20**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:35
Manganese	**0.50**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:35
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0070**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:37
Iron	**17**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:37
Manganese	**0.50**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:37
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **PM**
BatchID: R260325							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	5/11/2019 03:28
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	5/11/2019 03:28
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	5/11/2019 03:28
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	5/11/2019 03:28
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	5/11/2019 03:28
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	5/11/2019 03:28
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	5/11/2019 03:28
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	5/11/2019 03:28
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	5/11/2019 03:28
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	5/11/2019 03:28
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	5/11/2019 03:28
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	5/11/2019 03:28
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	5/11/2019 03:28
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	5/11/2019 03:28
2-Butanone	U		0.52	25	µg/L	1	5/11/2019 03:28
2-Hexanone	U		0.59	50	µg/L	1	5/11/2019 03:28
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	5/11/2019 03:28
Acetone	**4.3**	J	**1.1**	**50**	**µg/L**	1	5/11/2019 03:28
Benzene	**4.4**		**0.46**	**1.0**	**µg/L**	1	5/11/2019 03:28
Bromodichloromethane	U		0.49	1.0	µg/L	1	5/11/2019 03:28
Bromoform	U		0.56	1.0	µg/L	1	5/11/2019 03:28
Bromomethane	U		0.90	5.0	µg/L	1	5/11/2019 03:28
Carbon disulfide	U		0.49	5.0	µg/L	1	5/11/2019 03:28
Carbon tetrachloride	U		0.40	1.0	µg/L	1	5/11/2019 03:28
Chlorobenzene	**29**		**0.40**	**1.0**	**µg/L**	1	5/11/2019 03:28
Chloroethane	U		0.68	5.0	µg/L	1	5/11/2019 03:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-017
Collection Date: 5/1/2019 12:55 PM

Work Order: 19050582
Lab ID: 19050582-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	5/11/2019 03:28
Chloromethane	U		0.83	5.0	µg/L	1	5/11/2019 03:28
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	5/11/2019 03:28
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	5/11/2019 03:28
Cyclohexane	U		0.63	1.0	µg/L	1	5/11/2019 03:28
Dibromochloromethane	U		0.40	5.0	µg/L	1	5/11/2019 03:28
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	5/11/2019 03:28
Ethylbenzene	U		0.34	1.0	µg/L	1	5/11/2019 03:28
Isopropylbenzene	U		0.35	5.0	µg/L	1	5/11/2019 03:28
Methyl acetate	U		0.59	10	µg/L	1	5/11/2019 03:28
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	5/11/2019 03:28
Methylcyclohexane	U		0.35	1.0	µg/L	1	5/11/2019 03:28
Methylene chloride	U		0.86	5.0	µg/L	1	5/11/2019 03:28
Styrene	U		0.33	1.0	µg/L	1	5/11/2019 03:28
Tetrachloroethene	U		0.39	1.0	µg/L	1	5/11/2019 03:28
Toluene	U		0.45	1.0	µg/L	1	5/11/2019 03:28
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	5/11/2019 03:28
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	5/11/2019 03:28
Trichloroethene	U		0.43	1.0	µg/L	1	5/11/2019 03:28
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	5/11/2019 03:28
Vinyl chloride	U		0.53	1.0	µg/L	1	5/11/2019 03:28
Xylenes, Total	U		0.81	3.0	µg/L	1	5/11/2019 03:28
Surr: 1,2-Dichloroethane-d4	*98.3*			*75-120*	*%REC*	1	5/11/2019 03:28
Surr: 4-Bromofluorobenzene	*97.2*			*80-110*	*%REC*	1	5/11/2019 03:28
Surr: Dibromofluoromethane	*99.3*			*85-115*	*%REC*	1	5/11/2019 03:28
Surr: Toluene-d8	*101*			*85-110*	*%REC*	1	5/11/2019 03:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-018
Collection Date: 5/1/2019 01:50 PM

Work Order: 19050582
Lab ID: 19050582-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.066**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:42
Iron	**15**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:42
Manganese	**0.13**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:42
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0033**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:44
Iron	**14**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:44
Manganese	**0.13**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:44

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050119-SSR-019
Collection Date: 5/1/2019 02:45 PM

Work Order: 19050582
Lab ID: 19050582-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.30**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:46
Iron	**0.53**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:46
Manganese	**0.011**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:46
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.0071**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:48
Iron	**0.049**	J	**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:48
Manganese	**0.00031**	J	**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050219-SSR-020
Collection Date: 5/2/2019 10:05 AM

Work Order: 19050582
Lab ID: 19050582-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.61**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:49
Iron	**12**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:49
Manganese	**0.69**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:49
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135878							
Aluminum	**0.017**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:51
Iron	**10**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:51
Manganese	**0.70**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050319-ADH-023
Collection Date: 5/3/2019

Work Order: 19050582
Lab ID: 19050582-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.082**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 21:56
Iron	**3.3**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 21:56
Manganese	**0.81**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 21:56
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.015**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:05
Iron	**2.9**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:05
Manganese	**0.79**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050319-ADH-024
Collection Date: 5/3/2019 10:05 AM

Work Order: 19050582
Lab ID: 19050582-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.085**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:07
Iron	**3.1**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:07
Manganese	**0.79**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:07
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.016**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:09
Iron	**2.8**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:09
Manganese	**0.81**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050319-ADH-025
Collection Date: 5/3/2019 01:10 PM

Work Order: 19050582
Lab ID: 19050582-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.30**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:11
Iron	**5.3**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:11
Manganese	**0.10**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:11
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.0060**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:13
Iron	**4.4**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:13
Manganese	**0.090**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050319-SSR-026
Collection Date: 5/3/2019 01:25 PM

Work Order: 19050582
Lab ID: 19050582-25
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Iron	**16**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:14
Manganese	**0.16**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:14
BatchID: 135879							
Aluminum	**4.7**		**0.026**	**0.10**	**mg/L**	10	5/14/2019 19:12
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.34**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:16
Iron	**0.78**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:16
Manganese	**0.060**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050319-SSR-027
Collection Date: 5/3/2019 02:50 PM

Work Order: 19050582
Lab ID: 19050582-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**1.3**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:18
Iron	**2.6**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:18
Manganese	**0.59**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:18
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.033**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:20
Iron	**0.18**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:20
Manganese	**0.53**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050319-SSR-028
Collection Date: 5/3/2019 03:00 PM

Work Order: 19050582
Lab ID: 19050582-27
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.0026**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:25
Iron	U		0.015	0.080	mg/L	1	5/13/2019 22:25
Manganese	U		0.00026	0.0050	mg/L	1	5/13/2019 22:25
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.0032**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:26
Iron	U		0.015	0.080	mg/L	1	5/13/2019 22:26
Manganese	U		0.00026	0.0050	mg/L	1	5/13/2019 22:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050619-ADH-029
Collection Date: 5/6/2019 02:50 PM

Work Order: 19050582
Lab ID: 19050582-28
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.43**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:28
Iron	**2.3**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:28
Manganese	**0.74**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:28
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.0094**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:30
Iron	**0.50**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:30
Manganese	**0.66**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050619-ADH-030
Collection Date: 5/6/2019 11:40 AM

Work Order: 19050582
Lab ID: 19050582-29
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.66**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:31
Iron	**2.3**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:31
Manganese	**0.42**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:31
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	U		0.0026	0.010	mg/L	1	5/13/2019 22:33
Iron	U		0.015	0.080	mg/L	1	5/13/2019 22:33
Manganese	**0.0084**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050619-SSR-031
Collection Date: 5/6/2019 01:45 PM

Work Order: 19050582
Lab ID: 19050582-30
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.071**		**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:35
Iron	**7.1**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:35
Manganese	**0.085**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:35
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.0029**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:37
Iron	**6.7**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:37
Manganese	**0.083**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050619-SSR-032
Collection Date: 5/6/2019 12:45 PM

Work Order: 19050582
Lab ID: 19050582-31
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Iron	**14**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:39
Manganese	**0.30**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:39
BatchID: 135879							
Aluminum	**1.9**		**0.026**	**0.10**	**mg/L**	10	5/14/2019 19:14
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/13/19		Analyst: **STP**
BatchID: 135879							
Aluminum	**0.0064**	J	**0.0026**	**0.010**	**mg/L**	1	5/13/2019 22:40
Iron	**7.8**		**0.015**	**0.080**	**mg/L**	1	5/13/2019 22:40
Manganese	**0.26**		**0.00026**	**0.0050**	**mg/L**	1	5/13/2019 22:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-050619-SSR-033
Collection Date: 5/6/2019 03:11 PM

Work Order: 19050582
Lab ID: 19050582-32
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3005A / 5/14/19		Analyst: **STP**
BatchID: 135968							
Aluminum	U		0.0026	0.010	mg/L	1	5/14/2019 22:58
Iron	U		0.015	0.080	mg/L	1	5/14/2019 22:58
Manganese	**0.00042**	J	**0.00026**	**0.0050**	**mg/L**	1	5/14/2019 22:58
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3005A / 5/14/19		Analyst: **STP**
BatchID: 135968							
Aluminum	**0.0040**	J	**0.0026**	**0.010**	**mg/L**	1	5/14/2019 22:59
Iron	U		0.015	0.080	mg/L	1	5/14/2019 22:59
Manganese	**0.0017**	J	**0.00026**	**0.0050**	**mg/L**	1	5/14/2019 22:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *20-May-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: Trip Blank
Collection Date: 5/6/2019

Work Order: 19050582
Lab ID: 19050582-33
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **PM**
BatchID: R260325							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	5/10/2019 22:29
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	5/10/2019 22:29
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	5/10/2019 22:29
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	5/10/2019 22:29
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	5/10/2019 22:29
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	5/10/2019 22:29
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	5/10/2019 22:29
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	5/10/2019 22:29
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	5/10/2019 22:29
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	5/10/2019 22:29
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	5/10/2019 22:29
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	5/10/2019 22:29
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	5/10/2019 22:29
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	5/10/2019 22:29
2-Butanone	U		0.52	25	µg/L	1	5/10/2019 22:29
2-Hexanone	U		0.59	50	µg/L	1	5/10/2019 22:29
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	5/10/2019 22:29
Acetone	**4.6**	J	**1.1**	**50**	**µg/L**	1	5/10/2019 22:29
Benzene	U		0.46	1.0	µg/L	1	5/10/2019 22:29
Bromodichloromethane	U		0.49	1.0	µg/L	1	5/10/2019 22:29
Bromoform	U		0.56	1.0	µg/L	1	5/10/2019 22:29
Bromomethane	U		0.90	5.0	µg/L	1	5/10/2019 22:29
Carbon disulfide	U		0.49	5.0	µg/L	1	5/10/2019 22:29
Carbon tetrachloride	U		0.40	1.0	µg/L	1	5/10/2019 22:29
Chlorobenzene	U		0.40	1.0	µg/L	1	5/10/2019 22:29
Chloroethane	U		0.68	5.0	µg/L	1	5/10/2019 22:29
Chloroform	**0.62**	J	**0.46**	**1.0**	**µg/L**	1	5/10/2019 22:29
Chloromethane	U		0.83	5.0	µg/L	1	5/10/2019 22:29
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	5/10/2019 22:29
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	5/10/2019 22:29
Cyclohexane	U		0.63	1.0	µg/L	1	5/10/2019 22:29
Dibromochloromethane	U		0.40	5.0	µg/L	1	5/10/2019 22:29
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	5/10/2019 22:29
Ethylbenzene	U		0.34	1.0	µg/L	1	5/10/2019 22:29
Isopropylbenzene	U		0.35	5.0	µg/L	1	5/10/2019 22:29
Methyl acetate	U		0.59	10	µg/L	1	5/10/2019 22:29
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	5/10/2019 22:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: Trip Blank
Collection Date: 5/6/2019

Work Order: 19050582
Lab ID: 19050582-33
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.35	1.0	µg/L	1	5/10/2019 22:29
Methylene chloride	U		0.86	5.0	µg/L	1	5/10/2019 22:29
Styrene	U		0.33	1.0	µg/L	1	5/10/2019 22:29
Tetrachloroethene	U		0.39	1.0	µg/L	1	5/10/2019 22:29
Toluene	U		0.45	1.0	µg/L	1	5/10/2019 22:29
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	5/10/2019 22:29
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	5/10/2019 22:29
Trichloroethene	U		0.43	1.0	µg/L	1	5/10/2019 22:29
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	5/10/2019 22:29
Vinyl chloride	U		0.53	1.0	µg/L	1	5/10/2019 22:29
Xylenes, Total	U		0.81	3.0	µg/L	1	5/10/2019 22:29
Surr: 1,2-Dichloroethane-d4	*100*			*75-120*	*%REC*	1	5/10/2019 22:29
Surr: 4-Bromofluorobenzene	*99.4*			*80-110*	*%REC*	1	5/10/2019 22:29
Surr: Dibromofluoromethane	*99.6*			*85-115*	*%REC*	1	5/10/2019 22:29
Surr: Toluene-d8	*103*			*85-110*	*%REC*	1	5/10/2019 22:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-May-19

Client: The Mannik & Smith Group, Inc.

Work Order: 19050582

Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **135877** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-135877-135877** Units: **mg/L** Analysis Date: **5/13/2019 08:14 PM**

Client ID: Run ID: **ICPMS3_190513A** SeqNo: **5655578** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	0.000386	0.0050								J

LCS Sample ID: **LCS-135877-135877** Units: **mg/L** Analysis Date: **5/13/2019 08:16 PM**

Client ID: Run ID: **ICPMS3_190513A** SeqNo: **5655579** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1038	0.010	0.1	0	104	80-120	0			
Iron	10.26	0.080	10	0	103	80-120	0			
Manganese	0.1039	0.0050	0.1	0	104	80-120	0			

MS Sample ID: **19050582-01AMS** Units: **mg/L** Analysis Date: **5/13/2019 08:22 PM**

Client ID: **W-R2330025-042919-SSR-001** Run ID: **ICPMS3_190513A** SeqNo: **5655583** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.7986	0.010	0.1	0.465	334	75-125	0			SO
Iron	12.06	0.080	10	1.477	106	75-125	0			
Manganese	0.1835	0.0050	0.1	0.08067	103	75-125	0			

MSD Sample ID: **19050582-01AMSD** Units: **mg/L** Analysis Date: **5/13/2019 08:24 PM**

Client ID: **W-R2330025-042919-SSR-001** Run ID: **ICPMS3_190513A** SeqNo: **5655584** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.7978	0.010	0.1	0.465	333	75-125	0.7986	0.0942	20	SO
Iron	11.99	0.080	10	1.477	105	75-125	12.06	0.52	20	
Manganese	0.1828	0.0050	0.1	0.08067	102	75-125	0.1835	0.407	20	

The following samples were analyzed in this batch:

19050582-01A	19050582-01B	19050582-02A
19050582-02B	19050582-03A	19050582-03B
19050582-04A	19050582-04B	19050582-05A
19050582-05B	19050582-06A	19050582-06B
19050582-07A	19050582-07B	19050582-08A
19050582-08B	19050582-09A	19050582-09B
19050582-10A	19050582-10B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **135878** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-135878-135878** Units: **mg/L** Analysis Date: **5/13/2019 09:05 PM**
Client ID: Run ID: **ICPMS3_190513A** SeqNo: **5655610** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-135878-135878** Units: **mg/L** Analysis Date: **5/13/2019 09:06 PM**
Client ID: Run ID: **ICPMS3_190513A** SeqNo: **5655611** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1048	0.010	0.1	0	105	80-120	0			
Iron	10.18	0.080	10	0	102	80-120	0			
Manganese	0.1041	0.0050	0.1	0	104	80-120	0			

MS Sample ID: **19050582-11AMS** Units: **mg/L** Analysis Date: **5/13/2019 09:09 PM**
Client ID: **W-R2330025-043019-SSR-011** Run ID: **ICPMS3_190513A** SeqNo: **5655613** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.9924	0.010	0.1	0.4118	581	75-125	0			SO
Iron	11.69	0.080	10	1.625	101	75-125	0			
Manganese	0.2027	0.0050	0.1	0.0999	103	75-125	0			

MSD Sample ID: **19050582-11AMSD** Units: **mg/L** Analysis Date: **5/13/2019 09:11 PM**
Client ID: **W-R2330025-043019-SSR-011** Run ID: **ICPMS3_190513A** SeqNo: **5655614** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.946	0.010	0.1	0.4118	534	75-125	0.9924	4.78	20	SO
Iron	11.45	0.080	10	1.625	98.3	75-125	11.69	2.05	20	
Manganese	0.2012	0.0050	0.1	0.0999	101	75-125	0.2027	0.781	20	

The following samples were analyzed in this batch:

19050582-11A	19050582-11B	19050582-12A
19050582-12B	19050582-13A	19050582-13B
19050582-14A	19050582-14B	19050582-15A
19050582-15B	19050582-16A	19050582-16B
19050582-17A	19050582-17B	19050582-18A
19050582-18B	19050582-19A	19050582-19B
19050582-20A	19050582-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **135879** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-135879-135879** Units: **mg/L** Analysis Date: **5/13/2019 09:53 PM**
Client ID: Run ID: **ICPMS3_190513A** SeqNo: **5655643** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	0.02194	0.080								J
Manganese	0.000402	0.0050								J

LCS Sample ID: **LCS-135879-135879** Units: **mg/L** Analysis Date: **5/13/2019 09:55 PM**
Client ID: Run ID: **ICPMS3_190513A** SeqNo: **5655644** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09948	0.010	0.1	0	99.5	80-120	0			
Iron	9.743	0.080	10	0	97.4	80-120	0			
Manganese	0.1003	0.0050	0.1	0	100	80-120	0			

MS Sample ID: **19050582-22AMS** Units: **mg/L** Analysis Date: **5/13/2019 09:58 PM**
Client ID: **W-R2330025-050319-ADH-023** Run ID: **ICPMS3_190513A** SeqNo: **5655646** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.216	0.010	0.1	0.08206	134	75-125	0			S
Iron	12.14	0.080	10	3.309	88.3	75-125	0			
Manganese	0.9106	0.0050	0.1	0.8147	95.9	75-125	0			O

MSD Sample ID: **19050582-22AMSD** Units: **mg/L** Analysis Date: **5/13/2019 10:03 PM**
Client ID: **W-R2330025-050319-ADH-023** Run ID: **ICPMS3_190513A** SeqNo: **5655649** Prep Date: **5/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2397	0.010	0.1	0.08206	158	75-125	0.216	10.4	20	S
Iron	12.88	0.080	10	3.309	95.7	75-125	12.14	5.95	20	
Manganese	0.8881	0.0050	0.1	0.8147	73.4	75-125	0.9106	2.51	20	SO

The following samples were analyzed in this batch:

19050582-22A	19050582-22B	19050582-23A
19050582-23B	19050582-24A	19050582-24B
19050582-25A	19050582-25B	19050582-26A
19050582-26B	19050582-27A	19050582-27B
19050582-28A	19050582-28B	19050582-29A
19050582-29B	19050582-30A	19050582-30B
19050582-31A	19050582-31B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **135968** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-135968-135968** Units: **mg/L** Analysis Date: **5/14/2019 10:23 PM**
Client ID: Run ID: **ICPMS3_190514A** SeqNo: **5658135** Prep Date: **5/14/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-135968-135968** Units: **mg/L** Analysis Date: **5/14/2019 10:25 PM**
Client ID: Run ID: **ICPMS3_190514A** SeqNo: **5658136** Prep Date: **5/14/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1015	0.010	0.1	0	101	80-120	0			
Iron	10.06	0.080	10	0	101	80-120	0			
Manganese	0.101	0.0050	0.1	0	101	80-120	0			

MS Sample ID: **19050848-02AMS** Units: **mg/L** Analysis Date: **5/14/2019 11:04 PM**
Client ID: Run ID: **ICPMS3_190514A** SeqNo: **5658160** Prep Date: **5/14/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.026	0.10	1	0.03006	99.6	80-120	0			
Iron	99.59	0.80	100	0.00869	99.6	80-120	0			
Manganese	4.762	0.050	1	3.793	97	80-120	0			

MSD Sample ID: **19050848-02AMSD** Units: **mg/L** Analysis Date: **5/14/2019 11:06 PM**
Client ID: Run ID: **ICPMS3_190514A** SeqNo: **5658161** Prep Date: **5/14/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.026	0.10	1	0.03006	99.5	80-120	1.026	0.0741	20	
Iron	99.5	0.80	100	0.00869	99.5	80-120	99.59	0.091	20	
Manganese	4.727	0.050	1	3.793	93.4	80-120	4.762	0.75	20	

The following samples were analyzed in this batch:

19050582-32A	19050582-32B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190510-R260325** Units: **µg/L** Analysis Date: **5/10/2019 09:39 PM**
Client ID: Run ID: **VMS10_190510B** SeqNo: **5654027** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	2.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

trans-1,2-Dichloroethene	U	1.0					
trans-1,3-Dichloropropene	U	1.0					
Trichloroethene	U	1.0					
Trichlorofluoromethane	U	1.0					
Vinyl chloride	U	1.0					
Xylenes, Total	U	3.0					
Surr: 1,2-Dichloroethane-d4	*20.1*	0	*20*	0	*100*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.49*	0	*20*	0	*97.4*	*80-110*	0
Surr: Dibromofluoromethane	*20.16*	0	*20*	0	*101*	*85-115*	0
Surr: Toluene-d8	*20.74*	0	*20*	0	*104*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190510-R260325** Units: **µg/L** Analysis Date: **5/10/2019 08:49 PM**
Client ID: Run ID: **VMS10_190510B** SeqNo: **5654026** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	24.41	1.0	20	0	122	75-130	0			
1,1,2,2-Tetrachloroethane	23.58	1.0	20	0	118	75-130	0			
1,1,2-Trichloroethane	21.66	1.0	20	0	108	75-125	0			
1,1-Dichloroethane	21.76	1.0	20	0	109	68-142	0			
1,1-Dichloroethene	23.63	1.0	20	0	118	70-145	0			
1,2,4-Trichlorobenzene	19.03	1.0	20	0	95.2	70-135	0			
1,2-Dibromo-3-chloropropane	22.83	1.0	20	0	114	60-130	0			
1,2-Dibromoethane	24.82	1.0	20	0	124	67-155	0			
1,2-Dichlorobenzene	21.31	1.0	20	0	107	70-130	0			
1,2-Dichloroethane	21.95	1.0	20	0	110	78-125	0			
1,2-Dichloropropane	21.88	1.0	20	0	109	75-125	0			
1,3-Dichlorobenzene	19.91	1.0	20	0	99.6	75-130	0			
1,4-Dichlorobenzene	21.63	1.0	20	0	108	75-130	0			
2-Butanone	22.38	5.0	20	0	112	55-150	0			
2-Hexanone	21.08	5.0	20	0	105	60-135	0			
4-Methyl-2-pentanone	32.86	1.0	20	0	164	77-178	0			
Acetone	21.73	10	20	0	109	60-160	0			
Benzene	21.02	1.0	20	0	105	85-125	0			
Bromodichloromethane	22.12	1.0	20	0	111	75-125	0			
Bromoform	21.74	1.0	20	0	109	60-125	0			
Bromomethane	24.51	1.0	20	0	123	30-185	0			
Carbon disulfide	26.14	1.0	20	0	131	60-165	0			
Carbon tetrachloride	25.17	1.0	20	0	126	65-140	0			
Chlorobenzene	20.49	1.0	20	0	102	80-120	0			
Chloroethane	19.67	1.0	20	0	98.4	31-172	0			
Chloroform	20.2	1.0	20	0	101	80-130	0			
Chloromethane	17.53	1.0	20	0	87.6	46-148	0			
cis-1,2-Dichloroethene	22.29	1.0	20	0	111	75-134	0			
cis-1,3-Dichloropropene	20.66	1.0	20	0	103	70-130	0			
Dibromochloromethane	20.79	1.0	20	0	104	60-115	0			
Dichlorodifluoromethane	13.52	1.0	20	0	67.6	20-120	0			
Ethylbenzene	22.69	1.0	20	0	113	76-123	0			
Isopropylbenzene	23.89	1.0	20	0	119	80-127	0			
Methyl tert-butyl ether	23.05	1.0	20	0	115	68-129	0			
Methylene chloride	21.21	5.0	20	0	106	72-125	0			
Styrene	21.59	1.0	20	0	108	83-137	0			
Tetrachloroethene	24.84	1.0	20	0	124	68-166	0			
Toluene	22.55	1.0	20	0	113	76-125	0			
trans-1,2-Dichloroethene	24.08	1.0	20	0	120	80-140	0			
trans-1,3-Dichloropropene	21.15	1.0	20	0	106	56-132	0			
Trichloroethene	22.9	1.0	20	0	114	77-125	0			
Trichlorofluoromethane	20.03	1.0	20	0	100	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

Vinyl chloride	18.31	1.0	20	0	91.6	50-136	0
Xylenes, Total	68.14	3.0	60	0	114	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.7*	0	*20*	0	*98.5*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.16*	0	*20*	0	*101*	*80-110*	0
Surr: Dibromofluoromethane	*20.57*	0	*20*	0	*103*	*85-115*	0
Surr: Toluene-d8	*20.21*	0	*20*	0	*101*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **19050566-03A MS** Units: **µg/L** Analysis Date: **5/11/2019 03:45 AM**
Client ID: Run ID: **VMS10_190510B** SeqNo: **5654044** Prep Date: DF: **5000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	121600	5,000	100000	0	122	75-130	0			
1,1,2,2-Tetrachloroethane	109600	5,000	100000	0	110	75-130	0			
1,1,2-Trichloroethane	101800	5,000	100000	0	102	75-125	0			
1,1-Dichloroethane	111800	5,000	100000	0	112	68-142	0			
1,1-Dichloroethene	125500	5,000	100000	0	126	70-145	0			
1,2,4-Trichlorobenzene	90950	5,000	100000	0	91	70-135	0			
1,2-Dibromo-3-chloropropane	92100	5,000	100000	0	92.1	60-130	0			
1,2-Dibromoethane	117000	5,000	100000	0	117	67-155	0			
1,2-Dichlorobenzene	106000	5,000	100000	0	106	70-130	0			
1,2-Dichloroethane	108200	5,000	100000	0	108	78-125	0			
1,2-Dichloropropane	108100	5,000	100000	0	108	75-125	0			
1,3-Dichlorobenzene	96000	5,000	100000	0	96	75-130	0			
1,4-Dichlorobenzene	105600	5,000	100000	0	106	75-130	0			
2-Butanone	94450	25,000	100000	0	94.4	55-150	0			
2-Hexanone	92750	25,000	100000	0	92.8	60-135	0			
4-Methyl-2-pentanone	137400	5,000	100000	0	137	77-178	0			
Acetone	94150	50,000	100000	0	94.2	60-160	0			
Benzene	106000	5,000	100000	0	106	85-125	0			
Bromodichloromethane	102300	5,000	100000	0	102	75-125	0			
Bromoform	87150	5,000	100000	0	87.2	60-125	0			
Bromomethane	47200	5,000	100000	0	47.2	30-185	0			
Carbon disulfide	128500	5,000	100000	0	128	60-165	0			
Carbon tetrachloride	120600	5,000	100000	0	121	65-140	0			
Chlorobenzene	101000	5,000	100000	0	101	80-120	0			
Chloroethane	108000	5,000	100000	0	108	31-172	0			
Chloroform	100600	5,000	100000	0	101	80-130	0			
Chloromethane	104500	5,000	100000	0	104	46-148	0			
cis-1,2-Dichloroethene	112800	5,000	100000	0	113	75-134	0			
cis-1,3-Dichloropropene	96650	5,000	100000	0	96.6	70-130	0			
Dibromochloromethane	89950	5,000	100000	0	90	60-115	0			
Dichlorodifluoromethane	74050	5,000	100000	0	74	20-120	0			
Ethylbenzene	112600	5,000	100000	0	113	76-123	0			
Isopropylbenzene	118800	5,000	100000	0	119	80-127	0			
Methyl tert-butyl ether	114400	5,000	100000	0	114	68-129	0			
Methylene chloride	107800	25,000	100000	0	108	72-125	0			
Styrene	107000	5,000	100000	0	107	83-137	0			
Tetrachloroethene	141200	5,000	100000	0	141	68-166	0			
Toluene	225600	5,000	100000	121200	104	76-125	0			
trans-1,2-Dichloroethene	122400	5,000	100000	0	122	80-140	0			
trans-1,3-Dichloropropene	95600	5,000	100000	0	95.6	56-132	0			
Trichloroethene	115600	5,000	100000	0	116	77-125	0			
Trichlorofluoromethane	104300	5,000	100000	0	104	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

Vinyl chloride	94550	5,000	100000	0	94.6	50-136	0
Xylenes, Total	337800	15,000	300000	0	113	76-127	0
Surr: 1,2-Dichloroethane-d4	*100700*	0	*100000*	0	*101*	*75-120*	0
Surr: 4-Bromofluorobenzene	*101900*	0	*100000*	0	*102*	*80-110*	0
Surr: Dibromofluoromethane	*100600*	0	*100000*	0	*101*	*85-115*	0
Surr: Toluene-d8	*97600*	0	*100000*	0	*97.6*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

MSD Sample ID: **19050566-03A MSD** Units: **µg/L** Analysis Date: **5/11/2019 04:02 AM**
Client ID: Run ID: **VMS10_190510B** SeqNo: **5654045** Prep Date: DF: **5000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	109800	5,000	100000	0	110	75-130	121600	10.2	30	
1,1,2,2-Tetrachloroethane	103000	5,000	100000	0	103	75-130	109600	6.26	30	
1,1,2-Trichloroethane	95900	5,000	100000	0	95.9	75-125	101800	5.97	30	
1,1-Dichloroethane	96850	5,000	100000	0	96.8	68-142	111800	14.3	30	
1,1-Dichloroethene	111200	5,000	100000	0	111	70-145	125500	12	30	
1,2,4-Trichlorobenzene	85050	5,000	100000	0	85	70-135	90950	6.7	30	
1,2-Dibromo-3-chloropropane	89250	5,000	100000	0	89.2	60-130	92100	3.14	30	
1,2-Dibromoethane	109200	5,000	100000	0	109	67-155	117000	6.98	30	
1,2-Dichlorobenzene	96500	5,000	100000	0	96.5	70-130	106000	9.38	30	
1,2-Dichloroethane	97850	5,000	100000	0	97.8	78-125	108200	10	30	
1,2-Dichloropropane	99100	5,000	100000	0	99.1	75-125	108100	8.69	30	
1,3-Dichlorobenzene	89500	5,000	100000	0	89.5	75-130	96000	7.01	30	
1,4-Dichlorobenzene	98650	5,000	100000	0	98.6	75-130	105600	6.85	30	
2-Butanone	90250	25,000	100000	0	90.2	55-150	94450	4.55	30	
2-Hexanone	87650	25,000	100000	0	87.6	60-135	92750	5.65	30	
4-Methyl-2-pentanone	131500	5,000	100000	0	132	77-178	137400	4.39	30	
Acetone	93450	50,000	100000	0	93.4	60-160	94150	0.746	30	
Benzene	95800	5,000	100000	0	95.8	85-125	106000	10.1	30	
Bromodichloromethane	91600	5,000	100000	0	91.6	75-125	102300	11	30	
Bromoform	82600	5,000	100000	0	82.6	60-125	87150	5.36	30	
Bromomethane	46600	5,000	100000	0	46.6	30-185	47200	1.28	30	
Carbon disulfide	112200	5,000	100000	0	112	60-165	128500	13.5	30	
Carbon tetrachloride	109100	5,000	100000	0	109	65-140	120600	10.1	30	
Chlorobenzene	91450	5,000	100000	0	91.4	80-120	101000	9.97	30	
Chloroethane	92300	5,000	100000	0	92.3	31-172	108000	15.6	30	
Chloroform	89900	5,000	100000	0	89.9	80-130	100600	11.3	30	
Chloromethane	96000	5,000	100000	0	96	46-148	104500	8.48	30	
cis-1,2-Dichloroethene	98200	5,000	100000	0	98.2	75-134	112800	13.8	30	
cis-1,3-Dichloropropene	88250	5,000	100000	0	88.2	70-130	96650	9.09	30	
Dibromochloromethane	84800	5,000	100000	0	84.8	60-115	89950	5.89	30	
Dichlorodifluoromethane	63800	5,000	100000	0	63.8	20-120	74050	14.9	30	
Ethylbenzene	102800	5,000	100000	0	103	76-123	112600	9.19	30	
Isopropylbenzene	108300	5,000	100000	0	108	80-127	118800	9.25	30	
Methyl tert-butyl ether	102500	5,000	100000	0	102	68-129	114400	11	30	
Methylene chloride	96450	25,000	100000	0	96.4	72-125	107800	11.2	30	
Styrene	97650	5,000	100000	0	97.6	83-137	107000	9.14	30	
Tetrachloroethene	146900	5,000	100000	0	147	68-166	141200	3.92	30	
Toluene	205200	5,000	100000	121200	84	76-125	225600	9.52	30	
trans-1,2-Dichloroethene	107000	5,000	100000	0	107	80-140	122400	13.5	30	
trans-1,3-Dichloropropene	88700	5,000	100000	0	88.7	56-132	95600	7.49	30	
Trichloroethene	105000	5,000	100000	0	105	77-125	115600	9.65	30	
Trichlorofluoromethane	90150	5,000	100000	0	90.2	60-140	104300	14.6	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 19050582
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R260325** Instrument ID **VMS10** Method: **SW8260C**

Vinyl chloride	81350	5,000	100000	0	81.4	50-136	94550	15	30
Xylenes, Total	307100	15,000	300000	0	102	76-127	337800	9.52	30
Surr: 1,2-Dichloroethane-d4	*100300*	0	*100000*	0	*100*	*75-120*	100700	*0.398*	*30*
Surr: 4-Bromofluorobenzene	*101400*	0	*100000*	0	*101*	*80-110*	101900	*0.541*	*30*
Surr: Dibromofluoromethane	*101200*	0	*100000*	0	*101*	*85-115*	100600	*0.545*	*30*
Surr: Toluene-d8	*98950*	0	*100000*	0	*99*	*85-110*	97600	*1.37*	*30*

The following samples were analyzed in this batch:

19050582-17C	19050582-33A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 4

COC ID: 187108

ALS Project Manager:

ALS Work Order #: 19050582

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	metals
Work Order		Project Number		B	dissolved metals
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	VOCs
Send Report To		Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E	
				F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-R2330025-042919-SSR-001	4/29/19	1030	W	HNO_3	2	1	1									
2	W-R2330025-042919-SSR-003	4/29/19	1427	W	HNO_3	2	1	1									
3	W-R2330025-042919-JPM-002	4/29/19	1154	W	HNO_3	2	1	1									
4	W-R2330025-042919-SSR-004	4/29/19	1630	W	HNO_3	2	1	1									
5	W-R2330025-043019-SSR-005	4/30/19	945	W	HNO_3	2	1	1									
6	W-R2330025-043019-SSR-006	4/30/19	1105	W	"	2	1	1									
7	W-R2330025-043019-SSR-007	4/30/19	1255	W	"	2	1	1									
8	W-R2330025-043019-SSR-008	4/30/19	1405	W	"	2	1	1									
9	W-R2330025-043019-SSR-009	4/30/19	1515	W	"	2	1	1									
10	W-R2330025-043019-SSR-010	4/30/19	1635	W	"	2	1	1									

Sampler(s) Please Print & Sign: Spencer Rogers Spencer Rogers

Shipment Method:

Required Turnaround Time: (Check Box) ☒ Std. 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: Spencer Rogers Date: 5/7/19 Time: 1046 Received by:

Relinquished by: Date: 5/8/19 Time: 1700 Received by (Laboratory): 5/9/19 0800

Logged by (Laboratory): DCS Date: 5/9/19 Time: 1000 Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
SR2	3.4°c
pH<6	

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 187104

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Metals
Work Order		Project Number		B	Dissolved Metals
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	VOC's
Send Report To		Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E	
				F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Preserv.	Matrix	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-R2330025-043019-SSR-011	4/30/19		HNO_3	W	2	1	1									
2	W-R2330025-043019-SSR-012	4/30/19	1645	"	W	2	1	1									
3	W-R2330025-050119-SSR-013	5/1/19	825	"	W	2	1	1									
4	W-R2330025-050119-SSR-014	5/1/19	930	"	W	2	1	1									
5	W-R2330025-050119-SSR-015	5/1/19	1125	"	W	2	1	1									
6	W-R2330025-050119-SSR-016	5/1/19	1210	"	W	2	1	1									
7	W-R2330025-050119-SSR-017	5/1/19	1255	"	W	5	1	1	3								
8	W-R2330025-050119-SSR-018	5/1/19	1350	"	W	2	1	1									
9	W-R2330025-050119-SSR-019	5/1/19	1445	"	W	2	1	1									
10	W-R2330025-050219-SSR-020	5/2/19	1005	"	W	2	1	1									

Sampler(s) Please Print & Sign: Spencer Rogers Spencer Rogers

Shipment Method:

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by: Spencer Rogers Date: 5/7/19 Time: 1046 Received by:

Relinquished by: Date: 5/8/19 Time: 1700 Received by (Laboratory): 5/9/19 0800

Logged by (Laboratory): DFS Date: 5/9/19 Time: 1000 Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
SR2	3.4°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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South Charleston, WV +1 304 356 3168
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Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 187107

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Metals
Work Order		Project Number		B	dissolved metals
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	VOCs
Send Report To		Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E	
				F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-R2330025-050219-SSR-022	5/2/19	1645	W	HNO_3	2	1	1									
2	W-R2330025-050319-ADH-023	5/3/19															
3	W-R2330025-050319-ADH-024	5/3/19	1005														
4	W-R2330025-050319-ADH-025	5/3/19	1310														
5	W-R2330025-050319-SSR-026	5/3/19	1325														
6	W-R2330025-050319-SSR-027	1450 ←→ 5/3/19															
7	W-R2330025-050319-SSR-028	1500 ←→ 5/3/19															
8	W-R2330025-050619-ADH-029	5/6/19	1450														
9	W-R2330025-050619-ADH-030	5/6/19	1140														
10	W-R2330025-050619-SSR-031	5/6/19	1345														

Sampler(s) Please Print & Sign: Spencer Rogers Spencer Rogers

Shipment Method:

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by: Spencer Rogers Date: 5/7/19 Time: 1646 Received by:

Relinquished by: Date: 5/8/19 Time: 1700 Received by (Laboratory): 5/9/19 0800

Logged by (Laboratory): DFS Date: 5/9/19 Time: 1000 Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
SR2	3.4°c
ph<6	

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 187105

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	metals
Work Order		Project Number		B	Dissolved metals
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	VOCs
Send Report To		Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-R2330025-050619-SSR-032	5/6/19	1245	W	HNO_3	2	1	(									
2	W-R2330025-050619-SSR-033	5/6/19	1511	↓	↓	↓	↓	↓									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Spencer Rogers Spencer Rogers

Shipment Method:

Required Turnaround Time: (Check Box) ☒ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by: Spencer Rogers Date: 5/7/19 Time: 1046 Received by:

Relinquished by: Date: 5/8/19 Time: 1700 Received by (Laboratory): 5/9/19 0800

Logged by (Laboratory): DFS Date: 5/9/19 Time: 1000 Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
SR2	3.4°c
pH	

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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ALS Group, USA

Sample Receipt Checklist

Client Name: **MANNIK&SMITH** Date/Time Received: **09-May-19 08:00**

Work Order: **19050582** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 10-May-19 (Date) Reviewed by: Bill Carey (eSignature) 10-May-19 (Date)

Matrices: Water

Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4/3.4 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/10/2019 9:45:53 AM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes: -21 not received. Spencer notified.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: