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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 3, 2020

Project #: R2330026
Re: RACER Van Buren Landfill Site – Spring 2020 Semi-Annual Ground Water Monitoring 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 2020)
- Figure 3, Monitoring Well Analytical Summary Through May2020
- Figure 4, Iron Concentration Contours (May2020)
- 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, Spring and Fall 2018, Spring and Fall 2019 semi-annual ground water sampling events were sent in 2016, 2017, 2018, and 2019 respectively (results for all other semi-annual sampling events were discussed in the investigation reports).

The Spring 2020 Semi Annual Ground Water Sampling activities completed on the General Motors Property are summarized in a separate memo.

SPRING 2020 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. *Table 1, Analytes for Semi-Annual Ground Water Monitoring* depicts the analyte list utilized during the Spring 2020 semi-annual ground water monitoring. In addition, MW-14, MW-15, MW-16, and MW-28 were sampled and ground

water samples were analyzed for total and dissolved iron, aluminum and manganese. However, MW-24 was not sampled due to the well box was lifted and the well casing was unreachable. MW-24 will be repaired. Lastly, MW-8 was also not sampled as it was flooded, as it has been during spring sampling events in the past.

The Spring 2020 Semi-Annual Ground Water Sampling event was completed between May 18, 2020 to May 27, 2020 by Jason Martinez, Kevin Mercier, and Spencer Rogers 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. The three other CRA wells had a new lock on them and therefore, MSG was unable to measure water levels at those wells. 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, Low Flow Ground Water Field Sampling Forms.* 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 and MW-23 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 Spring 202 ground water hydraulic monitoring data are illustrated on *Figure 2, Ground Water Elevation Contour Map (May 2020).*

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 criteria (Health-Based DW) are depicted on *Figure 3, Monitoring Well Analytical Summary through May 2020 Semi-Annual Ground Water Monitoring (Exceedances Only).*

SUMMARY AND RECOMMENDATIONS

In summary, the ground water sample analytical results from the Spring 2020 Semi-Annual Ground Water Monitoring 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-4 MW-9, MW-10) contain concentrations of dissolved iron above MDEQ Part 201 Non-residential Health-Based DW criteria. Samples collected from MW-11 and MW-1 (also located at the northern and southern perimeter of the Site respectively) 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 twelve (12) monitoring wells (excluding those monitoring wells on the GM Site and discussed in the report "General Motors Property – Spring 2020 Semi-Annual Ground Water Sampling Results") on and around the Site have an estimated sediment accumulation of over 1.0 feet. Thirty-one (31) wells have an estimated sediment accumulation of less than 1.0 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**0.60 J**	<1.0	<5.0	<1.0	**3.2 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1	W-R2330026-052720-KRM-035	5/27/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<3.0	<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**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<3.0	<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
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<3.0	<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
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<3.0	<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
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<3.0	<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
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<3.0	<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
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<3.0	<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
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-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1	W-R2330026-052720-KRM-035	5/27/2020	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	<3.0	<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
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<3.0	<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**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<3.0	<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
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<3.0	<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
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<3.0	<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
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	NS	<5.0	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<3.0	<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
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<3.0	<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

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-ntr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	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	<1.0	<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
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
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<1.0	<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
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
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<1.0	<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
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
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<1.0	<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
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
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<1.0	<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
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
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<1.0	<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
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
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<1.0	<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
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**
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
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
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
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**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**160,000**
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
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
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
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
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
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
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
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020							19	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020							**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	<8	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<1.0	<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
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<1.0	<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
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
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<1.0	<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
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
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<1.0	<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
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
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<1.0	<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
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
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	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
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
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<1.0	<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
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
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<1.0	<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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-1	W-R2330009-043013-MJF-002	4/30/2013	**130**	<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	**120**	<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	**120**	<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	**86**	<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	**90**	<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	**69**	<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	**65**	<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	**83**	<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	**80**	<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	**81**	<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	**78**	<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	**81**	<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	**81**	<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	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	**59**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	**57**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	**57**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	**42 J**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	**42 J**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-042617-DMS-019	4/26/2017	**41 J**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	**73**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	**60**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	**48**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	**48**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	**170**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	**160**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	**130**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	**130**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020	**230**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	**86**	<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	**67**	<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	**44 J**	<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	**46 J**	<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	**38 J**	<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	**36 J**	<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	**33 J**	<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	**23 J**	<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	**130**	**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	**110**	**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	**74**	<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	**66**	<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	**37 J**	<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	**39 J**	<0.2	**5.9 J**	**2.2 J**	**0.081 J**	<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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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
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-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																			
MW-3	W-R2330026-052120-KRM-027	5/21/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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
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-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																			
MW-3	W-R2330026-052120-KRM-027	5/21/2020	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	<3.0	<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
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<3.0	<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
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<3.0	<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
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<3.0	<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
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<3.0	<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
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<3.0	<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
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<3.0	<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
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<3.0	<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
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

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{vi,nr}$) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
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**
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016							**85**	NS	NS	NS	NS	NS	NS	NS	NS		**1,800**	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
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
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
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**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**69,000**
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**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**67,000**
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
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
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
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
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
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,500**	NS	NS
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
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019							**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<1.0	<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
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<1.0	<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
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<1.0	<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
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
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<1.0	<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
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
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<1.0	<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
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
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<1.0	<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
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
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<1.0	<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
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
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<1.0	<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
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**
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016							**81**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
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
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
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**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	**140,000**
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
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
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
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
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
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	**13 J**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	**14 J**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-110416-JPM-029	11/4/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	**260**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-042817-AFB-029	4/28/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	**93**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-102417-DMS-008	10/23/2017	**88**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	**240**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	**300**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	**260**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019	**220**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	**56**	<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	**55**	<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	**490**	<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	**77**	<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	**80**	<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	**96**	<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	**70**	<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	**700**	<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	**410**	<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	**110**	<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	**100**	<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	**140**	<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	**69**	<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	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	**560**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	**72**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	**760**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-042817-AFB-034	4/28/2017	**730**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	**680**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	**690**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	**71**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	**69**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																			
MW-4	W-R2330026-052120-KRM-023	5/21/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020																			
MW-5	W-R2330026-052220-KRM-032	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			

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			Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																			
MW-4	W-R2330026-052120-KRM-023	5/21/2020	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	<3.0	<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
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<3.0	<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
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<3.0	<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
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<3.0	<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
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<3.0	<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
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<3.0	<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
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<3.0	<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
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-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020																			
MW-5	W-R2330026-052220-KRM-032	5/22/2020	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	<3.0	<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
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<3.0	<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**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<3.0	<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
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<3.0	<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
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
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
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
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
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019							**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020							**47**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<1.0	<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
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<1.0	<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
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
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<1.0	<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
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
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<1.0	<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
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
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<1.0	<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
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
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<1.0	<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
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
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<1.0	<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
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**
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	**140,000**
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
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
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
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
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
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
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**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	**140,000**
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
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
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
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
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
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS
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
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019							**100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<1.0	<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
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0	<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
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
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0	<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
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
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<1.0	<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
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	**740**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	**730**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020	**540**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	**540**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	**56**	<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	**58**	<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	**56**	<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	**50**	<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	**81 J**	<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	**71 J**	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.4 J**
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	**93**	<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	**57**	<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	**79**	<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	**73**	<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	**81**	<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	**73**	<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	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-042116-JPM-024	4/21/2016	**58**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	**79**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-110216-AEM-013	11/2/2016	**52**	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016	**72**	NS	NS	NS	NS	NS	NS	NS
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	**50**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	**56**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-042617-AFB-016	4/26/2017	**50 J**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	**76**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018	**390**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-042518-JPM-026	4/25/2018	**380**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	**440**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	**120**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	**87**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019	**77**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	**76**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020	**99**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-052220-KRM-032	5/22/2020	**100**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	**500**	<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	**640**	<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	**790**	<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	**750**	<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	**430**	<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	**430**	<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	**410**	<0.2	**11 J**	<5.0	<0.20	**0.084 J**	**1.2 J**	**5.0 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			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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI-crit}$) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	**1.3 J**	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}crit}$) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<3.0	<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
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<3.0	<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
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<3.0	<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
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

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														
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{SI-nrz}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<1.0	<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
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
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<1.0	<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
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
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<1.0	<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
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**
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016							**100**	NS	NS	NS	NS	NS	NS	NS	NS		**5,800**	NS	NS
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	**7.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
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
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
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**
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**47,000**
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
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS
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
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018							**32**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-6	W-R2330012-032714-ACN-004	3/27/2014	**410**	<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	**420**	<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	**410**	<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	**500**	<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	**470**	<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	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	**320**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-042116-JPM-026	4/21/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	**500**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-110416-JPM-037	11/4/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	**960**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017	**910**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	**360**	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017	**370**	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	**370**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	**260**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	**250**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020																			
MW-6	W-R2330026-052220-KRM-030	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020																			
MW-7	W-R2330026-051920-KRM-008	5/19/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{vi,ntr}$) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
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-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020																			
MW-6	W-R2330026-052220-KRM-030	5/22/2020	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	<3.0	<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
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<3.0	<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
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<3.0	<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
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<3.0	<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
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<3.0	<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
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<3.0	<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
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-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020																			
MW-7	W-R2330026-051920-KRM-008	5/19/2020	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	<3.0	<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**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<3.0	<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
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<3.0	<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
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<3.0	<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
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	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
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
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
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	**7.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
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
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	**9.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019							**8.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,500**	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020							**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**840**	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<1.0	<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
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
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<1.0	<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
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
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<1.0	<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
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
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<1.0	<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
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
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<1.0	<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
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
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<1.0	<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
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**
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	**150,000**
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
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
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
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	NS
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**
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	**160,000**
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017							**17**	NS	NS	NS	NS	NS	NS	NS	NS		**8,000**	NS	NS
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018							**30**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018							**62**	NS	NS	NS	NS	NS	NS	NS	NS		**10,000**	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	**5.8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019							**67**	NS	NS	NS	NS	NS	NS	NS	NS		**6,000**	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	**4.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019							**10**	NS	NS	NS	NS	NS	NS	NS	NS		**8,500**	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020							**16**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<1.0	<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
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
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<1.0	<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
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
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0	<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
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
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0	<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
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			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
MW-6	W-R2330024-102418-SSR-015	10/24/2018	**420**	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	**410**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	**740**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	**660**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019	**380**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	**380**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	**530**	<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	**910**	<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	**880**	<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	**490**	<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	**480**	<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	**560**	<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	**530**	<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	**690**	<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	**670**	<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	**440**	<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	**450**	<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	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	**500**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-041916-JPM-007	4/19/2016	**470**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	**340**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-110116-AEM-007	11/1/2016	**320**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	**490**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-042517-DMS-013	4/25/2017	**470**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	**760**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-102717-DMS-028	10/27/2017	**740**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	**610**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	**600**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	**1,000**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	**950**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	**670**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	**690**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019	**1,100**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	**1,000**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020	**790**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	**820**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	**180**	<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	**200**	<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	**200**	<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	**200**	<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	**210**	<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	**400**	<0.2	**19 J**	<5.0	<0.20	<2.0	**5.2**	**18 J**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	**330**	<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	**210**	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**2.0 J**	**11 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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
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-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{VI,ntr}$) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<3.0	<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
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
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-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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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			
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0	<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
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**
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**91,000**
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS
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
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	**8.70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
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
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018							**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	**8.80**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,400**	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019							**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,700**	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-8	W-R2330017-032015-JCH-029	3/20/2015	**200**	<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	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	**200**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-041916-JPM-008	4/19/2016	**200**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	**2,800**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-110116-AEM-008	11/1/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	**310**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	**320**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	**1.8**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	**440**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019	**330**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	**330**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020																			
MW-9	W-R2330026-052220-KRM-034	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**23**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	**16 J**	**12**	<1.0	<5.0	**35**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<3.0	<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**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<3.0	<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
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<3.0	<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
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<3.0	<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
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<3.0	<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
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<3.0	<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
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-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020																			
MW-9	W-R2330026-052220-KRM-034	5/22/2020	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	<3.0	<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**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<3.0	<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
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<3.0	<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
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<3.0	<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
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<3.0	<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
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<3.0	<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
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<3.0	<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
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<3.0	<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
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<3.0	<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
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	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	<1.0	<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
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
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<1.0	<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
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
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<1.0	<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
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
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<1.0	<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
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
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<1.0	<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
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
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<1.0	<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
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015							**510**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33,000**	NS	**120,000**
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32,000**	NS	**130,000**
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33,000**	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016							**270**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS
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**
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	**140,000**
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
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
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
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS
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
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
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
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<1.0	**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
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
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<1.0	<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
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
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<1.0	<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
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
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<1.0	<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
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
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<1.0	<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
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
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<1.0	<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
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
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0	<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
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
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0	<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
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
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<1.0	<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
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-9	W-R2330009-050113-MJF-007	5/1/2013	**760**	<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	**440**	<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	**430**	<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	**400**	<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	**340**	<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	**330**	<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	**300**	<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	**600**	<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	**570**	<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	**390**	<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	**370**	<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	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	**500**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	**540**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110216-AEM-012	11/2/2016	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	**220**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-102717-DMS-030	10/27/2017	**220**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	**98**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	**270**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	**350**	<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	**600**	<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	**600**	<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	**580**	<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	**600**	<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	**460**	<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	**480**	<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	**450**	<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	**470**	<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	**550**	<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	**540**	<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	**550**	<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	**530**	<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	**420**	<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	**430**	<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	**450**	<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	**420**	<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	**420**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	<0.47	<0.12	**0.36 J**	<0.52	**2.6 J**	**4.9**	<0.22	<0.39	**31**	<0.68	<0.68	<0.46	<0.18	<0.20	<.30	<0.29	**0.30 J**	<0.090	<0.32
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	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.52	<0.32	<0.35	<0.52	<6.2	**4.3**	<0.49	<0.49	**31**	<0.68	**1.5**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020																			
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.7**	<0.49	<0.49	**25**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<3.0	<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
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<.74	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	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020																			
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.81	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	<3.0	**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**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<3.0	<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
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<3.0	<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
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<3.0	<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
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	NS	<5.0	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<3.0	<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
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<3.0	<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
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																			

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<1.0	<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
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**
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS
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
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
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**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	**150,000**
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
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
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
MW-10	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
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
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
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
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020							**27**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<1.0	<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
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
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<1.0	<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
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
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<1.0	<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
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
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<1.0	<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
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
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	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
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
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<1.0	<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
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
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<1.0	<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
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**
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	**29,000**
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016							**390**	NS	NS	NS	NS	NS	NS	NS	NS		**700**	NS	NS
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS
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
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
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**
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	**25,000**
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017							**69**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018							**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
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
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	**430**	<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	NS
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	**430**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-042617-DMS-017	4/26/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-DMS-016	4/24/2018	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	**550**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	**570**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	**500**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	**500**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	**530**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	**7.4 J**	<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	**58**	<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	**61**	<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	**75**	<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	**60**	<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	**52**	<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	**54**	<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	**68**	**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	**68**	**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	**110**	<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	**96**	<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	**130**	<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	**4.8 J**	<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	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	**310**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-042116-JPM-021	4/21/2016	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016	**190**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-110116-JPM-010	11/1/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	**95**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	**17 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	**85**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	**12**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	**350**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	**83**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	**420**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020																			
MW-11	W-R2330026-052120-KRM-028	5/21/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020																			
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																			
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020																			
MW-11	W-R2330026-052120-KRM-028	5/21/2020	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	<3.0	<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**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<3.0	<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
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<3.0	<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
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<3.0	<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
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<3.0	<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
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<3.0	<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
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-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020																			
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																			
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																			

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{vi,nr}$) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	**<2.6**	NS	NS	NS	NS	NS	NS	NS	NS	**<15**	NS	NS	
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019							**23**	NS	NS	NS	NS	NS	NS	NS	NS	**1200**	NS	NS	
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS	
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020							**60**	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS	
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<1.0	<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
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
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<1.0	<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
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
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<1.0	<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
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
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<1.0	<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
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
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<1.0	<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
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
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<1.0	<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
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**
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
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**
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016							**60**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016							**150**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	**27 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017							**36 J**	NS	NS	NS	NS	NS	NS	NS	NS		**9,400**	NS	**66,000**
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,000**	NS	**65,000**
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017							**530**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017							**410**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018							**21**	NS	NS	NS	NS	NS	NS	NS	NS		**2,800**	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018							**210**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019							**610**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019							**16**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019							**22**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020							**38**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019							**2,000**	NS	NS	NS	NS	NS	NS	NS	NS		**24,000**	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019							**15**	NS	NS	NS	NS	NS	NS	NS	NS		**20,000**	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020							**28**	NS	NS	NS	NS	NS	NS	NS	NS		**19,000**	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020							**250**	NS	NS	NS	NS	NS	NS	NS	NS		**21,000**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-11	W-R2330025-050619-ADH-030	5/6/2019	**8.4**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	**57**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	**1,500**	<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	**470**	<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	**420**	<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	**210**	<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	**190**	<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	**750**	<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	**660**	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**5.8 J**
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	**310**	<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	**340**	<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	**170**	<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	**140**	<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	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	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	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-042116-AFB-027	4/21/2016	**160**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	**270**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	**270**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	**740**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	**740**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	**260**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	**420**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	**240**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	**690**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	**700**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019	**300**	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020	**450**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	**490**	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	**360**	NS	NS	NS	NS	NS	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	**280**	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	**760**	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020	**660**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020																			
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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																			
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-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020																			
MW-17	W-R2330026-051920-KRM-010	5/19/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.42 J**
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

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020																			
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	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	<3.0	<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
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	NS	<5.0	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	NS	<5.0	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<3.0	<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
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<3.0	<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
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																			
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-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020																			
MW-17	W-R2330026-051920-KRM-010	5/19/2020	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	<3.0	<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
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<3.0	<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
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<3.0	<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
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

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019							**63**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
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
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<1.0	<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
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
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	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
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
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	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
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
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<1.0	<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
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
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<1.0	<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
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**
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	**21,000**
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016							**310**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**3,700**	NS	NS
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,500**	NS	**23,000**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**23,000**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017							**860**	NS	NS	NS	NS	NS	NS	NS	NS		**4,200**	NS	NS
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018							**400**	NS	NS	NS	NS	NS	NS	NS	NS		**4,500**	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018							**500**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019							**200**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019							**780**	NS	NS	NS	NS	NS	NS	NS	NS		**3,700**	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020							**33.0**	NS	NS	NS	NS	NS	NS	NS	NS		**3,200**	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
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
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<1.0	<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
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
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0	<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
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
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0	<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
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**
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**
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
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016							**96**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-14	W-R2330026-052020-KRM-018	5/20/2020	**720**	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	**530**	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	**520**	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020	**860**	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	**860**	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	**460**	NS	NS	NS	NS	NS	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	**460**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	**210**	<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	**180**	<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	**240**	**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	**220**	**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	**240**	**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	**230**	**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	**300**	<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	**280**	<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	**330**	<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	**320**	<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	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	**400**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	**380**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	**3,900**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-110116-AEM-009	11/1/2016	**410**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-042517-AFB-011	4/25/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-102617-AFB-023	10/26/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	**510**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	**500**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019	**370**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	**360**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020	**350**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	**350**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	**600**	<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	**250**	<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	**3,800**	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	**210**	<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	**2700**	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	**180**	<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	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	**220**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	**180**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020																			
MW-18	W-R2330026-052220-SSR-031	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020																			
MW-19	W-R2330026-052020-SSR-033	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020																			
MW-18	W-R2330026-052220-SSR-031	5/22/2020	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	<3.0	<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
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<3.0	<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
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<3.0	<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**
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-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020																			
MW-19	W-R2330026-052020-SSR-033	5/22/2020	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	<3.0	<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
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<3.0	<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
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<3.0	<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
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{vi,nr}$) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017							**2,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	**44,000**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	**18,000**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017							**5,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018							**7,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018							**580**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019							**540**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020							**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS
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
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<1.0	<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
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
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<1.0	<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
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
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<1.0	<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
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**
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**34,000**
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
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	**25 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-19[A]	DUP 1	4/19/2016							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
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
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017							**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	**27,000**
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	**28,000**
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
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
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
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
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
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
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
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019							**690**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020							**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	**94**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
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
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<1.0	<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
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
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<1.0	<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
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
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<1.0	<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
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-042517-DMS-008	4/25/2017	**150**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	**880**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	**1700**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	**130**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	**590**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020	**670**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	**350**	<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	**300**	<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	**560**	<0.2	**21**	**1.7 J**	**0.080 J**	<2.0	**24**	**53**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	**350**	<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	**520**	<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	**460**	<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	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	**450**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-041916-JPM-010	4/19/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016	**450**	NS	NS	NS	NS	NS	NS	NS
MW-19	DUP 1	4/19/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-110316-AEM-027	11/3/2016	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	**360**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	**370**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	**380**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	**400**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	**510**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	**500**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020	**530**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	**390**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	**280**	<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	**200**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.57 J**	**1.1 J**
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	**160**	<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	**150**	<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	**210**	<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	**170**	<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	**210**	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**3.9 J**	**12 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020																			
MW-20	W-R2330026-051920-JPM-013	5/19/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020																			
MW-21	W-R2330026-052020-SSR-017	5/20/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<3.0	<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
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-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020																			
MW-20	W-R2330026-051920-JPM-013	5/19/2020	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	<3.0	<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**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<3.0	<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
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<3.0	<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
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-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020																			
MW-21	W-R2330026-052020-SSR-017	5/20/2020	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	<3.0	<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**

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<1.0	<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
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**
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**55,000**
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
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
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
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
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**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	**50,000**
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**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**50,000**
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
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
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
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
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
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
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
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020							**650**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS
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
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<1.0	<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
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
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0	<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
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
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0	<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
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**
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**
MW-21[A] (DUP)	DUP 1	11/18/2015							**27 J**	NS	NS	NS	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS
MW-21	W-R2330021-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS
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
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017							**120**	NS	NS	NS	NS	NS	NS	NS	NS		**220**	NS	**19,000**
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	**20,000**
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**200**	NS	
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018							**270**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS		**93**	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52**	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020							**130**	NS	NS	NS	NS	NS	NS	NS	NS		**190**	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**70**	NS	NS
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
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<1.0	<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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	**170**	<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	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	**170**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-042517-DMS-010	4/25/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	**190**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-102617-AFB-022	10/26/2017	**140**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	**170**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	**250**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019	**210**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-103019-KRM-026	10/30/2019	**210**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020	**240**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	**60**	<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	**9.1 J**	<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	**52**	<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	**37 J**	<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	**100**	<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	**25 J**	<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	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	**4.6 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	**3.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	**35 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	**36 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	**33 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	**24 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	**46**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	**43**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	**150**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	**110**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020	**170**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	**94**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	**730**	<0.2	**23**	**2.7 J**	<0.20	<2.0	**24**	**81**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	**360**	<0.2	**3.2 J**	<5.0	<0.20	<2.0	**0.64 J**	**2.2 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020																			
MW-22	W-R2330026-052020-SSR-019	5/20/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	**0.60 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.52	<0.32	<0.32	<0.52	<6.2	**2.1**	<0.49	<0.49	**58**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020																			
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**0.5 J**	<0.49	<0.49	**20**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			

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)																
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<3.0	<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
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<3.0	<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
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<3.0	<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
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-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020																			
MW-22	W-R2330026-052020-SSR-019	5/20/2020	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	<3.0	<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**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<3.0	<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**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<3.0	<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
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<3.0	<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
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020																			
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.81	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																			

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
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
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<1.0	<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
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
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<1.0	<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
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
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<1.0	<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
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**
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	**120,000**
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
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	**41 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
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
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017							**17 J**	NS	NS	NS	NS	NS	NS	NS	NS		**8,500**	NS	**93,000**
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**90,000**
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
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
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
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019							**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020							**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
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
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<1.0	<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
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
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<1.0	<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
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
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<1.0	<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
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
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<1.0	<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
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**
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	**130,000**
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
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
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS
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**
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	**110,000**
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
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
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
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019							**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020							**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	**250**	<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	**240**	<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	**270**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.75 J**	**5.6 J**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	**260**	<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	**270**	<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	**250**	<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	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	**88**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	**82**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	**91**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	**91**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	**140**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	**130**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	**72**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-102517-AFB-014	10/25/2017	**67**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R220024-042418-JPM-015	4/24/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019	**67**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	**76**	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019	**75**	NS	NS	NS	NS	NS	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	**82**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020	**130**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	**87**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	**180**	<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	**160**	<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	**180**	<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	**150**	<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	**310**	<0.2	**25**	**2.8 J**	**0.059 J**	<2.0	**29**	**100**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	**78**	<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	**120**	<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	**99**	<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	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	**89**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	**99**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-110216-JPM-016	11/2/2016	**92**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	**85**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	**80**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	**91**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	**79**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	**73**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019	**77**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	**77**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	**91**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	**640**	<0.2	**3.8 J**	**0.69 J**	<0.20	<2.0	**0.69 J**	**4.9 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.52	<0.32	<0.35	<0.52	**9.8 J**	<0.46	<0.49	<0.49	<0.40	<0.68	**0.94 J**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020																			
MW-25	W-R2330026-052220-SSR-035	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<3.0	<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
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<3.0	<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
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<3.0	<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
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.81	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	<3.0	<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**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<3.0	<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
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<3.0	<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
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-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020																			
MW-25	W-R2330026-052220-SSR-035	5/22/2020	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	<3.0	<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
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<3.0	<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
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<3.0	<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
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

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<1.0	<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
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
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<1.0	<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
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
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<1.0	<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
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**
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**47,000**
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016							**170**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
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
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
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**
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**49,000**
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
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
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
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
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
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<1.0	<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
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
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0	<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
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
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<1.0	**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
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**
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	**46 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**63 J**	NS	**16,000**
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
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS
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**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	**18,000**
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017							**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS
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
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019							**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020							**1,500**	NS	NS	NS	NS	NS	NS	NS	NS		**3,500**	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS		<50	NS	NS
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
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<1.0	<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
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
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0	<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
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
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0	<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
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015							**910**	NS	NS	NS	NS	NS	NS	NS	NS		**2,300**	NS	21000
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	20000

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-24	W-R2330012-052014-ACN-030	5/20/2014	**620**	<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	**690**	<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	**670**	<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	**740**	<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	**700**	<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	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	**840**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	**920**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	**820**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	**760**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	**990**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	**970**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	**700**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	**710**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	**1000**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	**960**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019	**760**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	**770**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	**190**	<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	**150**	<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	**340**	<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	**250**	<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	**310**	<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	**110**	<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	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	**990**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-042016-AEP-017	4/20/2016	**68**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	**370**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	**230**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	**580**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-042717-DMS-026	4/27/2017	**95**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	**570**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	**320**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	**1,100**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	**45**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019	**3,300**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	**210**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020	**2,600**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	**170**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	**110**	<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	**86**	<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	**69**	<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	**65**	<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	**100**	<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	**25 J**	<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	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	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			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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020																			
MW-26	W-R2330026-052020-SSR-015	5/20/2020	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	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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																			
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-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020																			
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020																			
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020																			
MW-26	W-R2330026-052020-SSR-015	5/20/2020	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	NS	<5.0	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<3.0	<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
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<3.0	<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
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																			
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-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020																			
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020																			
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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	<3.0	<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
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
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
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016							**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**910**	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS
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**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23 J**	NS	**13,000**
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**480**	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018							**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019							**440**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**650**	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020							**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
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
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	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
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
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0	<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
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
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0	<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
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015							**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	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
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
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
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS
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
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS
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**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	**69,000**
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
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
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
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	**4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
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
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
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
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	**2.9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020							**48.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS
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
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<1.1	<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
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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	**58**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	**11 J**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	**45 J**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	**250**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-042717-DMS-025	4/27/2017	**5.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	**71**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018	**17**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	**5.4**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019	**26**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	**22**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020	**23**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	**21**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	**160**	**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	**160**	**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	**140**	<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	**110**	<0.2	**7.5 J**	**0.79 J**	<0.20	<2.0	**0.66 J**	**4.2 J**
MW-27[A]	NS	NS	**72**	<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	**80**	<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	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	**94**	NS	NS	NS	NS	NS	NS	NS
MW-27	NS	4/22/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-042817-AFB-031	4/28/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	**92**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	**91**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	**90**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	**850**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	**830**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019	**780**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	**780**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020	**89**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	**84**	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	**400**	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	**400**	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020	**480**	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	**490**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	**410**	<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	**380**	<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	**400**	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**6.4 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020																			
MW-29	W-R2330026-051920-JPM-007	5/19/2020	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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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
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-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<3.0	<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
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<3.0	<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
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-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020																			
MW-29	W-R2330026-051920-JPM-007	5/19/2020	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	<3.0	<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
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<3.0	<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
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
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-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<1.1	<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
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
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<1.0	<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
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**
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**20,000**
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS		**5,400**	NS	NS
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016							**54**	NS	NS	NS	NS	NS	NS	NS	NS		**3,000**	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
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**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**22,000**
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017							**12**	NS	NS	NS	NS	NS	NS	NS	NS		**2,900**	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018							**42**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
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
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019							**230**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019							**40**	NS	NS	NS	NS	NS	NS	NS	NS		**3,100**	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020							**260**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
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
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<1.1	<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
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
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<1.0	<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
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015							**54**	NS	NS	NS	NS	NS	NS	NS	NS		**310**	NS	**14,000**
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**740**	NS	**13,000**
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016							**21 J**	NS	NS	NS	NS	NS	NS	NS	NS		**710**	NS	NS
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS
MW-30[A]	DUP 2	4/22/2016							**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**650**	NS	NS
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS
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
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**990**	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017							**35 J**	NS	NS	NS	NS	NS	NS	NS	NS		**1,000**	NS	**12,000**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	**12,000**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017							**480**	NS	NS	NS	NS	NS	NS	NS	NS		**1,300**	NS	NS
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**920**	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018							**70**	NS	NS	NS	NS	NS	NS	NS	NS		**620**	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018							**4.7**	NS	NS	NS	NS	NS	NS	NS	NS		**1,400**	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**730**	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**2,000**	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	**8.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019							**410**	NS	NS	NS	NS	NS	NS	NS	NS		**1,600**	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019							**310**	NS	NS	NS	NS	NS	NS	NS	NS		**1,100**	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**630**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	**400**	<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	**400**	<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	**400**	<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	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	**260**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-042216-AFB-033	4/22/2016	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	**300**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-042517-JPM-006	4/25/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	**66**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	**170**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	**170**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020	**120**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	**130**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	**72**	<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	**67**	<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	**47 J**	<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	**110**	<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	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-042216-JPM-034	4/22/2016	**130**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30	DUP 2	4/22/2016	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	**94**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-110416-AEM-032	11/4/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	**75**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-042517-DMS-007	4/25/2017	**96**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	**75**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-102617-AFB-025	10/26/2017	**70**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	**92**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	**52**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	**81**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	**92**	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019	**100**	NS	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	**68**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019	**64**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	**59**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020																			
MW-30	W-R2330026-051920-JPM-009	5/19/2020	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-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020																			
MW-31	W-R2330026-051820-KRM-001	5/18/2020	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-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020																			
MW-32	W-R2330026-051820-KRM-003	5/18/2020	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																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020																			
MW-30	W-R2330026-051920-JPM-009	5/19/2020	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-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020																			
MW-31	W-R2330026-051820-KRM-001	5/18/2020	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-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020																			
MW-32	W-R2330026-051820-KRM-003	5/18/2020	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																			

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020							**86**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**71 J**	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015							**330**	NS	NS	NS	NS	NS	NS	NS	NS		**490**	NS	<50
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**55 J**	NS	<50
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**
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	**17,000**
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016							**12**	NS	NS	NS	NS	NS	NS	NS	NS		**130**	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS
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
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110 J**	NS	NS
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**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150 J**	NS	**18,000**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS
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
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS
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
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140**	NS	NS
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
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020							**8,400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**40,000**	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS
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
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	<50
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**
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**66,000**
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016							**160**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**410**	NS	NS
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
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
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**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**810**	NS	**24,000**
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	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
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
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	**4.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS
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
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**780**	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020							**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,200**	NS	NS
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
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50
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**

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020	**49**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	**34**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	**240**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-060515-ACN-001	6/5/2015	**240**	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	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	**390**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-103116-AEM-003	10/31/2016	**370**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-042417-DMS-002	4/24/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-102617-DMS-003	10/23/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	**630**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	**830**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	**530**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	**610**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020	**1,200**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	**500**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	**95**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330017-060515-ACN-002	6/5/2015	**62**	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	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	**81**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-041816-AEP-004	4/18/2016	**87**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-103116-JPM-004	10/31/2016	**82**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	**46 J**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-042417-AFB-001	4/24/2017	**29 J**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017	**80**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	**42**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	**33**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	**81**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	**85**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	**1,600**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	**60**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	**88**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	**91**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020	**18**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	**17**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	**120**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-060515-ACN-003	6/5/2015	**80**	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	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020																			
MW-33	W-R2330026-051820-KRM-005	5/18/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020																			
MW-34	W-R2330026-051920-JPM-011	5/19/2020	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

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020																			
MW-33	W-R2330026-051820-KRM-005	5/18/2020	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	<3.0	<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
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-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020																			
MW-34	W-R2330026-051920-JPM-011	5/19/2020	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

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016							**67**	NS	NS	NS	NS	NS	NS	NS	NS		**2,700**	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS
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
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
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**
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**98,000**
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
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
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
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
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
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	**3.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
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
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020							**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	**<8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
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
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<1.0	<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
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**
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	**19,000**
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016							**120**	NS	NS	NS	NS	NS	NS	NS	NS		**1,200**	NS	NS
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**850**	NS	NS
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
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS
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**
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	**24,000**
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
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
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
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
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
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	**5.2**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS
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
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019							**450**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020							**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**320**	NS	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS
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
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	8 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS
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**
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	**13,000**
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.6	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	**81**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	**78**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	**64**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-042417-DMS-003	4/24/2017	**89**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	**68**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	**75**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	**69**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	**70**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	**71**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	**320**	<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	**270**	<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	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	**300**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-041916-JPM-013	4/19/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	**520**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-110416-AEM-030	11/4/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-042417-DMS-004	4/24/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	**290**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	**290**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	**420**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	**460**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019	**270**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	**240**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	**16 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	**6.3 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	**29 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	**1.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	**12**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	**7.6**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020																			
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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-R2330024-042318-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
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																			
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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
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
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																			

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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020																			
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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-R2330024-042318-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
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																			
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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	<3.0	<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
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
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																			

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{vi,nr}$) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018							**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**210**	NS	NS
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	**4.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018							**73**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS
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
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019							**8.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020							**3500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	59 J	NS	NS
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
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016							**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS
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**
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	**13,000**
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017							**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**450**	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018							**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**580**	NS	NS
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	**6.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS
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
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	**13.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**37**	NS	NS
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
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	**8.10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019							**9.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020							**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS
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
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	**0.13 J**	<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
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**
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	**12,000**
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016							**22 J**	NS	NS	NS	NS	NS	NS	NS	NS		**440**	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS
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
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130 J**	NS	NS
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**
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	**13,000**
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
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**440**	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018							<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS
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
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	**80**	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**280**	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020							**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018	**18**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-DMS-001	4/23/2018	**3.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	**27**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	**8.6**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	**81**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	**3.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019	**4.1 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020	**940**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	**<2.5**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	**160**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	**140**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	**200**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-042318-DMS-002	4/23/2018	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	**270**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	**49**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	**350**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	**120**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020	**320**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	**240**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	**210**	<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	**72**	<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	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	**110**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	**100**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	**72**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	**68**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	**610**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	**130**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017	**800**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	**830**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	**96**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	**98**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	**34**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	**21**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	**69**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	**65**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	**56**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020	**84**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**
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	NS	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.29 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.48 J**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.28 J**
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	**4.3 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	**0.84 J**	<5.0	<5.0	**14.0**	**6.0**	<1.0	**39**
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	NS	<1.0	**5.5 J**	<5.0	<5.0	**0.29 J**	**2.0 J**	<1.0	**0.33 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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	**1.3 J**	<1.0	**0.27 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	NS	<1.0	<10	<5.0	<5.0	<1.0	**0.62 J**	<1.0	**0.29 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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.38 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	**1.1**	**0.62 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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.25 J**
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	NS	<1.0	**1.5**	<5.0	<5.0	**0.18 J**	**1.4 J**	**1.1**	**0.25 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	NS	<1.0	<10	<5.0	<5.0	**0.84 J**	**1.9 J**	<1.0	**0.54 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	NS	<1.0	**1.4 J**	<5.0	<5.0	**0.86 J**	**2.0 J**	<1.0	**0.52 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	NS	<1.0	<10	<5.0	<5.0	**0.84 J**	<5.0	<1.0	**0.82 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	NS	<1.0	<10	<5.0	<5.0	<1.0	**1.6 J**	<1.0	**0.38 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				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	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	<3.0	<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**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<3.0	<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**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<3.0	<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**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	**4.2**	<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
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<3.0	<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**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<3.0	<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
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<3.0	<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
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<3.0	<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
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<3.0	<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**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<3.0	<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**
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<3.0	<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**
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<3.0	<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**
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	**74.0**	<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**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	**1.0 J**	<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**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<3.0	<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
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	**1.0 J**	<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**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	**1.3 J**	<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**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<3.0	<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
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<3.0	<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
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<3.0	<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
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<3.0	<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
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<3.0	<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
SB-19	W-2330012-040114-ACN-004	4/1/2014	**1.0 J**	<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
SB-20	W-2330012-040114-ACN-005	4/1/2014	<3.0	<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
SB-35	W-2330012-040114-ACN-006	4/1/2014	**1.9 J**	<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
SB-36	W-R2330012-040314-ACN-007	4/3/2014	**2.8 J**	<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
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	**2.8 J**	<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
SB-37	W-R2330012-040314-ACN-009	4/3/2014	**1.7 J**	<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
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**1.5 J**	<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

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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																					
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
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
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<1.0	<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
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
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0	<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
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
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<1.0	<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
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
SB-21	W-R2330009-120513-RD-001	12/5/2013	<1.0	**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
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
SB-22	W-R2330009-120513-RD-002	12/5/2013	<1.0	<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
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
SB-23	W-R2330009-120513-RD-003	12/5/2013	<1.0	<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
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
SB-24	W-R2330009-120613-RD-004	12/6/2013	<1.0	<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
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
SB-25	W-R2330009-120613-RD-005	12/6/2013	<1.0	<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
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
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<1.0	<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
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
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<1.0	<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
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
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<1.0	<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
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
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<1.0	<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
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
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<1.0	**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
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
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<1.0	**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
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
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<1.0	<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
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
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<1.0	**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
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
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<1.0	<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
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
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<1.0	<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
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
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<1.0	<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
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<1.0	<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
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<1.0	<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
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<1.0	<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
SB-19	W-2330012-040114-ACN-004	4/1/2014	<1.0	<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
SB-20	W-2330012-040114-ACN-005	4/1/2014	<1.0	<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
SB-35	W-2330012-040114-ACN-006	4/1/2014	<1.0	**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
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<1.0	<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
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<1.0	<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
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<1.0	<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
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<1.0	<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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	**37**	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	**5,300**	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**1,500**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	**610**	<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	**800**	<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	**470**	<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	**53**	<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	**53**	<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	**1,800**	**0.39**	**86 J**	<5.0	**2.7**	<2.0	**86**	**2,200**
SB-21	W-R2330009-120513-RD-001	12/5/2013	**530**	<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	**550**	<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	**560**	<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	**1,600**	**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	**70**	<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	**4,100**	**0.30**	**210**	**9.8 J**	**0.53 J**	**2.4 J**	**86**	**580**
SB-24	W-R2330009-120613-RD-004	12/6/2013	**360**	<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	**9,200**	**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	**530**	<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	**14,000**	**0.51**	**1,100**	**47 J**	**2.5**	**13 J**	**660**	**2,900**
SB-26	W-R2330009-121013-AJL-009	12/10/2013	**92**	<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	**2,800**	<0.2	**210**	**9.4 J**	<0.20	**2.3 J**	**180**	**680**
SB-27	W-R2330009-121113-AJL-010	12/11/2013	**310**	<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	**730**	<0.2	**53 J**	<5.0	<0.20	<2.0	**46**	**140 J**
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	**300**	<0.2	**24**	<5.0	<0.20	<2.0	<4.0	**18 J**
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013	**4,100**	**0.23**	**310**	**13 J**	**0.75 J**	**3.3 J**	**320**	**800**
SB-28	W-R2330009-121113-AJL-012	12/11/2013	**180**	<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	**980**	**0.13**	**51 J**	<5.0	<0.20	<2.0	**24 J**	**470 J**
SB-29	W-R2330009-121213-AJL-014	12/12/2013	**580**	<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	**380 J**	**0.15**	**22 J**	<5.0	<0.20	<2.0	**19 J**	**950**
SB-30	W-R2330009-121213-AJL-016	12/12/2013	**260 J**	<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	**130**	**0.1**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**44**
SB-31	W-R2330009-121213-AJL-018	12/12/2013	**170 J**	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	<27
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013	**290 J**	<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	**270 J**	<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	**2,200**	**2.2**	**320**	<5.0	**16**	<2.0	**90**	**9,900**
SB-33	W-R2330009-121213-AJL-017	12/12/2013	**420 J**	<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	**130**	**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	**170 J**	<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	**610**	**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	**1,500**	<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	**270**	<0.2	**31**	**0.98 J**	<0.2	<2.0	**0.86 J**	**360**
SB-17	W-R2330012-033114-ACN-002	3/31/2014	**390**	<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	**660**	<0.2	**11 J**	<5.0	<0.2	<2.0	**1.4 J**	**140**
SB-19	W-2330012-040114-ACN-004	4/1/2014	**930**	<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	**98**	<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	**550**	<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	**260**	<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	**250 J**	<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	**530**	<0.2	**31 J**	<5.0	<0.20	<2.0	**1.1 J**	**340**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**430**	<0.2	**15 J**	<5.0	<0.20	<2.0	<4.0	**21 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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	**2.0 J**	<5.0	<5.0	<1.0	**2.0 J**	<1.0	**0.30 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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.30 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.49 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.35 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.39 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	**1.3**	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.4 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	**15**	<10	**3.4 J**	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	**5.7**	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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				Semivolatile Organic Compounds (SVOCs)																
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
SB-39	W-R2330012-040314-ACN-011	4/3/2014	**1.5 J**	<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
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<3.0	<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
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<3.0	<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
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<3.0	<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
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<3.0	<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
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<3.0	<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
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<3.0	<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
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<3.0	<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
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<3.0	<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**
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<3.0	<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
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<3.0	<80	<10	<5.0	<10	<10	<80	<80	<40	<5.0	<5.0	<10	<5.0	<80	<4.0	<5.0	<40	<40	<40
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<3.0	<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
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	<3.0	<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
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<3.0	**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**
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																			
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<3.0	<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
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																			
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<3.0	<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**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<3.0	<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
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<3.0	<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
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<3.0	<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
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<3.0	<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
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<3.0	<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
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<3.0	<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

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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<1.0	<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
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<1.0	<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
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<1.0	<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
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<1.0	<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
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<1.0	<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
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<1.0	<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
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<1.0	<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
SW-1	W-R2330012-041514-ACN-017	4/15/2014	**1.6 H**	<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
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<1.0	<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
SW-2	W-R2330012-041514-ACN-019	4/15/2014	**1.3 H**	<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
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<1.0	<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
SW-3	W-R2330012-041514-ACN-018	4/15/2014	**1.3 H**	<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
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	**1500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**45 J**	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<1.0	<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
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<1.0	<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
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
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<1.0	<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
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
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<1.0	<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
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
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<1.0	<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
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
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<1.0	<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
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
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<1.0	<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
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
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<1.0	<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
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
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<1.0	<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
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
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<1.0	<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
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
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<1.0	<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
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
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<1.1	<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
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
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<1.0	<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
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
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<1.0	<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
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
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<1.0	<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
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
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<1.0	<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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
SB-39	W-R2330012-040314-ACN-011	4/3/2014	**300**	<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	**960**	<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	**1,200**	<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	**410**	<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	**59**	<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	**110 J**	<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	**22 J**	<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	**51 J**	<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	**69**	<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	**460 J**	<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	**880**	<0.2	**13 J**	<50	<0.20	**0.093 J**	**1.1 J**	**51**
SW-3	W-R2330012-041514-ACN-018	4/15/2014	**6.2 J**	<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	**180**	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	**38**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	**1.5 J**	<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	**2.3 J**	<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	**0.38 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**4.1 J**
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	**1.0 J**	<0.2	**0.46 J**	<5.0	<0.20	<2.0	<4.0	**3.1 J**
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013	**0.13 J**	<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	**0.31 J**	<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	**0.17 J**	<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	**1.2 J**	<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	**0.25 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.57 J**
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	**0.39 J**	<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	**0.53 J**	<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	**0.22 J**	<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	**0.28 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	**0.23 J**	<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	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	**0.24 J**	<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	**3.5 J**	<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	**3.2 J**	<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	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015	**8.1 J**	<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	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015	**0.26 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015	**0.20 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<50	<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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	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
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	**1.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	**66 J**
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
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	<50
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
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	<50
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	**67**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**88 J**	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**98 J**	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**460**	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	**89**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS
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**
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	**250 J**
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**
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93 J**	NS	**920**
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**
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	**31 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**100 J**	NS	**190 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**
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	**200 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**
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**81 J**	NS	**150 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**
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30 J**	NS	**120 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	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**90**	NS	NS
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	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017							**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**91**	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32 J**	NS	NS
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**	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**42 J**	NS	NS
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
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
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
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018							<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018							**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5000**	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018							**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4200**	NS	NS
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
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS
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
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	**4.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39**	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018							**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	**7.9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24**	NS	NS
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
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	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	NS
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	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	NS
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	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	NS
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	**5.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	**1.4 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	**6.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	**2.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	**3.1**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	**7.4 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017	**1.1 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	**4.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017	**2.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	**7.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017	**2.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	**8.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017	**2.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	**2.0 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	**0.88 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017	**1.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017	**0.79 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017	**1.8 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	**2.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	**7.00**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	**1.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018	**74**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	**64**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018	**460**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	**2.5**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018	**230**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	**0.33**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018	**3.3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	**1.1**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018	**0.61**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	**0.50**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-cr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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)																		
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-DY}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
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	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}crit}$) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	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

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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019	**2.8 J**	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
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	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (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	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																			
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																			
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																			
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																			
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																			
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020																			
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020																			
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020																			
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020																			
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020																			
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020																			
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	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)																	
			Xylenes	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
Non-residential Drinking Water Criteria (II)			280 (E)	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
Non-residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
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
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																			
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																			
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																			
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																			
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																			
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020																			
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020																			
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020																			
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020																			
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020																			
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020																			
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	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.

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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		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	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
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	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
GSI Final Acute Value (FAV)			220	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
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	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	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	NS
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
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**49 J**	NS	NS
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
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
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
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019							**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**330**	NS	NS
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	**9.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**79**	NS	NS
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**60 J**	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020							**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	**8.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	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
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			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	**0.71 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019	**0.76 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	**0.67 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019	**11**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	**0.31 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019	**590**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	**530**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019	**0.42 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019	**3.6**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019	**8.2**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	<2.5	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**0.60 J**	<1.0	<5.0	<1.0	**3.2 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1	W-R2330026-052720-KRM-035	5/27/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<1.0	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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<3.0	<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**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<3.0	<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
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<3.0	<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
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<3.0	<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
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<3.0	<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
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<3.0	<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
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<3.0	<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
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-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1	W-R2330026-052720-KRM-035	5/27/2020	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	<3.0	<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
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<3.0	<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**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<3.0	<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
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<3.0	<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
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<3.0	<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
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	<10	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	<3.0	<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
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<3.0	<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

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<1.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013	
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<1.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013	
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<1.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014	
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<1.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014	
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<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	<1.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015	
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<1.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015	
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019	
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020	
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020	
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<1.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<1.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013	
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<1.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013	
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<1.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014	
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<1.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014	
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<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-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		**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		**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		**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		**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		**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		**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-1[A]	W-R2330025-102919-KRM-014	10/29/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS	**180**
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**200**
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020						19	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	NS	**200**
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**200**
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020						**17**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	NS	**230**
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	<8	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**230**
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**

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-1[A]	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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
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-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																			
MW-3	W-R2330026-052120-KRM-027	5/21/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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
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-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																			
MW-3	W-R2330026-052120-KRM-027	5/21/2020	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	<3.0	<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
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<3.0	<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
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<3.0	<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
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<3.0	<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
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<3.0	<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
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<3.0	<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
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<3.0	<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
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<3.0	<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
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

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	
MW-3	W-R2330022-042817-AFB-029	4/28/2017	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
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019	
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020	
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<1.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<1.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<1.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013	
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<1.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013	
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<1.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<1.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<1.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<1.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015	
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	
MW-4	W-R2330024-102618-SSR-029	10/26/2018	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-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**
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-3[A]	W-R2330025-103119-SCD-032	10/31/2019						**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**220**
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**230**
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS	NS	**290**
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**290**
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**

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-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**
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-3[A]	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																			
MW-4	W-R2330026-052120-KRM-023	5/21/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020																			
MW-5	W-R2330026-052220-KRM-032	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			

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)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																			
MW-4	W-R2330026-052120-KRM-023	5/21/2020	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	<3.0	<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
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<3.0	<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
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<3.0	<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
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<3.0	<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
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<3.0	<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
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<3.0	<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
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<3.0	<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
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-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020																			
MW-5	W-R2330026-052220-KRM-032	5/22/2020	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	<3.0	<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
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<3.0	<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**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<3.0	<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
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<3.0	<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
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<3.0	<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
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020	
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<1.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<1.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013	
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<1.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<1.0
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<1.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<1.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<1.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015	
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	
MW-5	W-R2330021-110216-AEM-013	11/2/2016	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
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019	
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020	
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<1.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014	
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014	

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-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-4[A]	W-R2330025-102919-SCD-017	10/29/2019						**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**740**
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**730**
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020						**47**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**540**
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS	**540**
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**
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-5[A]	W-R2330025-102919-KRM-012	10/29/2019						**100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**77**
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**76**
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**99**
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	NS	**100**
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**

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-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-4[A]	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	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
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-5[A]	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-052220-KRM-032	5/22/2020	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**

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	**1.3 J**	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	**0.58 J**	<1.0	<5.0	<1.0	<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																			
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-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020																			
MW-6	W-R2330026-052220-KRM-030	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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																			

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<3.0	<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
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<3.0	<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
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																			
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-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020																			
MW-6	W-R2330026-052220-KRM-030	5/22/2020	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	<3.0	<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
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<3.0	<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
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<3.0	<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
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<3.0	<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
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<3.0	<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
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<3.0	<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
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																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<1.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015	
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<1.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015	
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	
MW-6	W-R2330022-102817-AFB-035	10/28/2017	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
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	
MW-6	W-R2330024-102418-SSR-015	10/24/2018	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
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019	
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020	
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<1.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013	
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<1.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013	
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<1.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014	
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<1.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<1.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<1.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018	

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-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**
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-6[A]	W-R2330025-102919-SCD-013	10/29/2019						**8.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,500**	NS	NS	**380**
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**380**
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020						**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**840**	NS	NS	**1,500**
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**1,500**
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**

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-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
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-6[A]	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020																			
MW-7	W-R2330026-051920-KRM-008	5/19/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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
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-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020																			
MW-7	W-R2330026-051920-KRM-008	5/19/2020	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	<3.0	<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**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<3.0	<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
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<3.0	<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
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<3.0	<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
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<3.0	<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
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
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-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	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	<3.0	<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**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<3.0	<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
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<3.0	<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
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<3.0	<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
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<3.0	<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
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<3.0	<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
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

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019	
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020	
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019	
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<1.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013	
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<1.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013	
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<1.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014	
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<1.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014	
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<1.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015	
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<1.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016	
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	
MW-9	W-R2330022-042617-DMS-015	4/26/2017	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-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-7[A]	W-R2330025-102919-KRM-007	10/29/2019						**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**1,100**
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS	**1,000**
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**790**
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**820**
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**
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	**8.8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,400**			**440**
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019						**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,700**	NS	NS	**330**
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**330**
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	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	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**

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-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-7[A]	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	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
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-8[A]	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	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**

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020																			
MW-9	W-R2330026-052220-KRM-034	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**23**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	**16 J**	**12**	<1.0	<5.0	**35**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**27**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	<0.47	<0.12	**0.36 J**	<0.52	**2.6 J**	**4.9**	<0.22	<0.39	**31**	<0.68	<0.68	<0.46	<0.18	<0.20	<.30	<0.29	**0.30 J**	<0.090	<0.32
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	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.52	<0.32	<0.35	<0.52	<6.2	4.3	<0.49	<0.49	**31**	<0.68	**1.5**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45

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)																		
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020																			
MW-9	W-R2330026-052220-KRM-034	5/22/2020	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	<3.0	<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**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<3.0	<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
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<3.0	<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
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<3.0	<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
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<3.0	<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
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<3.0	<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
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<3.0	<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
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<3.0	<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
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<3.0	<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
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<3.0	<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
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<.74	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	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.81	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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019	
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020	
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<1.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013	
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<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	<1.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013	
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<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	<1.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014	
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<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	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<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	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018	
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019	
MW-10	W-R2330025-102919-KRM-018	10/29/2019	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-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-9[A]	W-R2330025-102919-KRM-009	10/29/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**230**
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**240**
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**260**
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**250**
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**
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-10[A]	W-R2330025-102919-KRM-018	10/29/2019						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**520**
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**520**

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-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-9[A]	W-R2330025-102919-KRM-009	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	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**
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-10[A]	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020																			
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.7**	<0.49	<0.49	**25**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020																			
MW-11	W-R2330026-052120-KRM-028	5/21/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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																			

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020																			
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.81	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	<3.0	**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**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<3.0	<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
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<3.0	<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
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<3.0	<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
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	<10	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	<3.0	<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
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<3.0	<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
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-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020																			
MW-11	W-R2330026-052120-KRM-028	5/21/2020	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	<3.0	<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**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<3.0	<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
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<3.0	<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
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<3.0	<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
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<3.0	<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
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<3.0	<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
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																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020	
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014	
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014	
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015	
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015	
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201	
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020	
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<1.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013	
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<1.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013	
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<1.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014	
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<1.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<1.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<1.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015	

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-10[A]	W-R2330026-052720-KRM-039	5/27/2020						**27**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**520**
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**530**
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-11[A]	W-R2330025-110119-SCD-041	11/1/2019						**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1200**	NS	NS	**200**
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS	**160**
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020						**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS	**140**
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**57**
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**
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

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-10[A]	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	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-11[A]	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	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**
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**

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020																			
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																			
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																			
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020																			
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																		
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020																			
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																			
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																			
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020																			
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	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	<3.0	<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
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	<10	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	NS	<10	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	<3.0	<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
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<3.0	<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
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

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	
MW-12	W-R2330022-102417-DMS-010	10/24/2017	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
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019	
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020	
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020	
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020	
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<1.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014	
MW-17	W-R2330012-091514-ACN-004	9/15/2014	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
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014	
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<1.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015	
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<1.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	
MW-17	W-R2330017-111715-AFB-009	11/17/2015	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-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-12[A]	W-R2330025-102919-SCD-015	10/29/2019						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**290**
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019						**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**300**
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**290**
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020						**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**450**
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**490**
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019						**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**360**
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**280**
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019						**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**720**
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**720**
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**760**
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**720**
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**660**
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**720**
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**530**
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**520**
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**860**
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**860**
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019						**63**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**460**
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**460**
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

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	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-12[A]	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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																			
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-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020																			
MW-17	W-R2330026-051920-KRM-010	5/19/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.47 J**
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-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020																			
MW-18	W-R2330026-052220-SSR-031	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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																			
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-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020																			
MW-17	W-R2330026-051920-KRM-010	5/19/2020	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	<3.0	<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
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<3.0	<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
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<3.0	<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
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-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020																			
MW-18	W-R2330026-052220-SSR-031	5/22/2020	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	<3.0	<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
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<3.0	<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
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019	
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020	
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020	
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	

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-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**
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-17[A]	W-R2330025-103019-KRM-022	10/30/2019						**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**370**
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**360**
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020						**33.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**350**
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**350**
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	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	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	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	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	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	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-18[A]	W-R2330025-103019-KRM-023	10/30/2019						**540**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**240**
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**180**
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020						**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**670**
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**250**
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**

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[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
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-17[A]	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	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-18[A]	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020																			
MW-19	W-R2330026-052020-SSR-033	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<3.0	<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**
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-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020																			
MW-19	W-R2330026-052020-SSR-033	5/22/2020	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	<3.0	<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
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<3.0	<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
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<3.0	<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
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<3.0	<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
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

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS
MW-19[A]	DUP 1	4/19/2016	
MW-19	DUP 1	4/19/2016	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020	
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<1.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<1.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015	
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<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	<1.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015	
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	
MW-20	W-R2330022-042517-DMS-010	4/25/2017	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
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	
MW-20	W-R2330025-043019-SSR-009	4/30/2019	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-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**
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019						**690**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**510**
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**500**
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020						**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**530**
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	**94**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**390**
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**

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-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
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS
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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020																			
MW-20	W-R2330026-051920-JPM-013	5/19/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020																			
MW-21	W-R2330026-052020-SSR-017	5/20/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			

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)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020																			
MW-20	W-R2330026-051920-JPM-013	5/19/2020	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	<3.0	<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**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<3.0	<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
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<3.0	<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
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-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020																			
MW-21	W-R2330026-052020-SSR-017	5/20/2020	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	<3.0	<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**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<3.0	<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
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<3.0	<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
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<3.0	<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
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-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019	
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020	
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS
MW-21[A] (DUP)	DUP 1	11/18/2015	
MW-21 (DUP)	DUP 1	11/18/2015	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020	
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<1.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<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	<1.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015	
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<1.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015	
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018	
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019	

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 ($GW_{VI\text{-}res}$) (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-20[A]	W-R2330025-103019-KRM-026	10/30/2019						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**210**
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**210**
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020						**650**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**240**
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	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	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	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	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-21[A]	W-R2330025-110119-SCD-039	11/1/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93**	NS	NS	**160**
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52**	NS	NS	**110**
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020						**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**170**
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**70**	NS	NS	**94**
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**
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-22[A]	W-R2330025-110119-KRM-036	11/1/2019						**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**67**

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-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	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-21[A]	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	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**
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-22[A]	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS

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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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020																			
MW-22	W-R2330026-052020-SSR-019	5/20/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	**0.60 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.52	<0.32	<0.32	<0.52	<6.2	**2.1**	<0.49	<0.49	**58**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020																			
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**0.5 J**	<0.49	<0.49	**20**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.52	<0.32	<0.35	<0.52	**9.8 J**	<0.46	<0.49	<0.49	<0.40	<0.68	**0.94 J**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45

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)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020																			
MW-22	W-R2330026-052020-SSR-019	5/20/2020	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	<3.0	<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**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<3.0	<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**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<3.0	<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
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<3.0	<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
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020																			
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.81	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	<3.0	<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
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<3.0	<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
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<3.0	<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
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	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	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.81	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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019	
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020	
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<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	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014	
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019	
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020	
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<1.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<1.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<1.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019	
MW-24	W-R2330025-110119-SCD-035	11/1/2019	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-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	8,600	NS	NS	76
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019						21	NS	NS	NS	NS	NS	NS	NS	NS	NS	10,000	NS	NS	75
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	8,500	NS	NS	82
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020						340	NS	NS	NS	NS	NS	NS	NS	NS	NS	14,000	NS	NS	130
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,900	NS	NS	87
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-23[A]	W-R2330025-110119-SCD-037	11/1/2019						13	NS	NS	NS	NS	NS	NS	NS	NS	NS	11,000	NS	NS	77
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	10,000	NS	NS	77
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020						170	NS	NS	NS	NS	NS	NS	NS	NS	NS	12,000	NS	NS	100
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	10,000	NS	NS	91
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	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-24[A]	W-R2330025-110119-SCD-035	11/1/2019						10	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,000	NS	NS	760
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,100	NS	NS	770

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-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	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-23[A]	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	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
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-24[A]	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020																			
MW-25	W-R2330026-052220-SSR-035	5/22/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020																			
MW-26	W-R2330026-052020-SSR-015	5/20/2020	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	NS	<5.0	<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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																			

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanilline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<3.0	<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**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<3.0	<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
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<3.0	<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
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-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020																			
MW-25	W-R2330026-052220-SSR-035	5/22/2020	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	<3.0	<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
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<3.0	<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
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<3.0	<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
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-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020																			
MW-26	W-R2330026-052020-SSR-015	5/20/2020	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	<10	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	<3.0	<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
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<1.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<1.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019	
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020	
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<1.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018	
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019	
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020	
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015	

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-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-25[A]	W-R2330025-110119-KRM-034	11/1/2019						**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**3,300**
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**210**
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020						**1,500**	NS	NS	NS	NS	NS	NS	NS	NS		**3,500**	NS	NS	**2,600**
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS		<50	NS	NS	**170**
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-26[A]	W-R2330025-110119-KRM-040	11/1/2019						**440**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**650**	NS	NS	**26**
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**22**
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020						**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**23**
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**21**
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**

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-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-25[A]	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	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-26[A]	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	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**

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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																			
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-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020																			
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020																			
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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

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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<3.0	<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
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																			
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-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020																			
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020																			
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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	<3.0	<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
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<3.0	<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
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<3.0	<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
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

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	
MW-27	W-R2330021-110416-JPM-033	11/4/2016	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
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019	
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020	
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020	
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<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	<1.1
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015	
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<1.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015	
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	
MW-29	W-R2330025-043019-SSR-005	4/30/2019	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-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
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-27[A]	W-R2330025-102919-SCD-019	10/29/2019						**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**780**
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**780**
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**89**
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**84**
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS	**400**
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS	**400**
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020						**48.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS	**480**
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS	**490**
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**

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-R2330017-031915-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**
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-27[A]	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020																			
MW-29	W-R2330026-051920-JPM-007	5/19/2020	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	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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
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-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020																			
MW-30	W-R2330026-051920-JPM-009	5/19/2020	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																			

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)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020																			
MW-29	W-R2330026-051920-JPM-007	5/19/2020	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	<3.0	<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
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<3.0	<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
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
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-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020																			
MW-30	W-R2330026-051920-JPM-009	5/19/2020	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																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020	
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<1.1
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015	
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<1.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015	
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS
MW-30[A]	DUP 2	4/22/2016	
MW-30	DUP 2	4/22/2016	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	
MW-30	W-R2330025-043019-SSR-006	4/30/2019	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
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019	
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020	
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS
MW-31[A]	W-R2330025-050319-SSR-027	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 ($GW_{VI\text{-}res}$) (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-29[A]	W-R2330025-103119-SCD-029	10/31/2019						**40**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**170**
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**170**
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020						**260**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**120**
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**130**
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**
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017						**35 J**	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		**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		**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		**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		**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		**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-30[A]	W-R2330025-103119-KRM-030	10/31/2019						**310**	NS	NS	NS	NS	NS	NS	NS	NS		**1,100**	NS	NS	**64**
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**630**	NS	NS	**59**
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020						**86**	NS	NS	NS	NS	NS	NS	NS	NS		**230**	NS	NS	**49**
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**71 J**	NS	NS	**34**
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**

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-29[A]	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	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**
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-30[A]	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020																			
MW-31	W-R2330026-051820-KRM-001	5/18/2020	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																			
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-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020																			
MW-32	W-R2330026-051820-KRM-003	5/18/2020	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-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020																			
MW-33	W-R2330026-051820-KRM-005	5/18/2020	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)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020																			
MW-31	W-R2330026-051820-KRM-001	5/18/2020	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																			
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-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020																			
MW-32	W-R2330026-051820-KRM-003	5/18/2020	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-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020																			
MW-33	W-R2330026-051820-KRM-005	5/18/2020	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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020	
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017	
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020	
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020	
MW-33	W-R2330026-051820-KRM-005	5/18/2020	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-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-31[A]	W-R2330025-102819-KRM-003	10/28/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**610**
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**590**
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020						**8,400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**40,000**	NS	NS	**1,200**
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS	**500**
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**	NS	NS	**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**	NS	NS	**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-32[A]	W-R2330025-102819-SCD-004	10/28/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	NS	**88**
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**91**
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020						**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**18**
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,200**	NS	NS	**17**
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-33[A]	W-R2330025-102819-KRM-005	10/28/2019						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**69**
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**70**
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020						**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**72**
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**71**

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-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	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
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	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-33[A]	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020																			
MW-34	W-R2330026-051920-JPM-011	5/19/2020	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
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-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020																			
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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																			

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)																		
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroanitline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<3.0	<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
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-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020																			
MW-34	W-R2330026-051920-JPM-011	5/19/2020	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
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-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020																			
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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																			

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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<1.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015	
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019	
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020	
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018	
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019	
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020	
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018	

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-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-34[A]	W-R2330025-103119-KRM-031	10/31/2019						**450**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**270**
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**240**
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020						**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**250**
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**240**
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	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**
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-35[A]	W-R2330025-102819-KRM-001	10/28/2019						**8.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**4.1 J**
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**2.6 J**
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020						**3,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**940**
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	59 J	NS	NS	**<2.5**
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**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**580**	NS	NS	**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-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-34[A]	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	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
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-35[A]	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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

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	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
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)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (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	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
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	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																			
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																			
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**
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	NS	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<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				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	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
Residential Drinking Water Criteria (II)			280 (E)	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
Residential Health-Based Drinking Water Value (E)			10,000	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)			41	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
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	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
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	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
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
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
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																			
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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	<3.0	<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
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
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																			
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	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	<3.0	<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**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<3.0	<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**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<3.0	<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**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	**4.2**	<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
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<3.0	<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**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<3.0	<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
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			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020	
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	**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
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020	
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<1.0
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<1.0
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	
SB-21	W-R2330009-120513-RD-001	12/5/2013	<1.0
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	
SB-22	W-R2330009-120513-RD-002	12/5/2013	<1.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	
SB-23	W-R2330009-120513-RD-003	12/5/2013	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	

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																						
																			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-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**
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019						**9.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**130**
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**120**
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020						**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS	**320**
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS	**240**
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**
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**280**	NS	NS	**65**
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**56**
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020						**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**84**
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**37**
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_{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-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
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	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

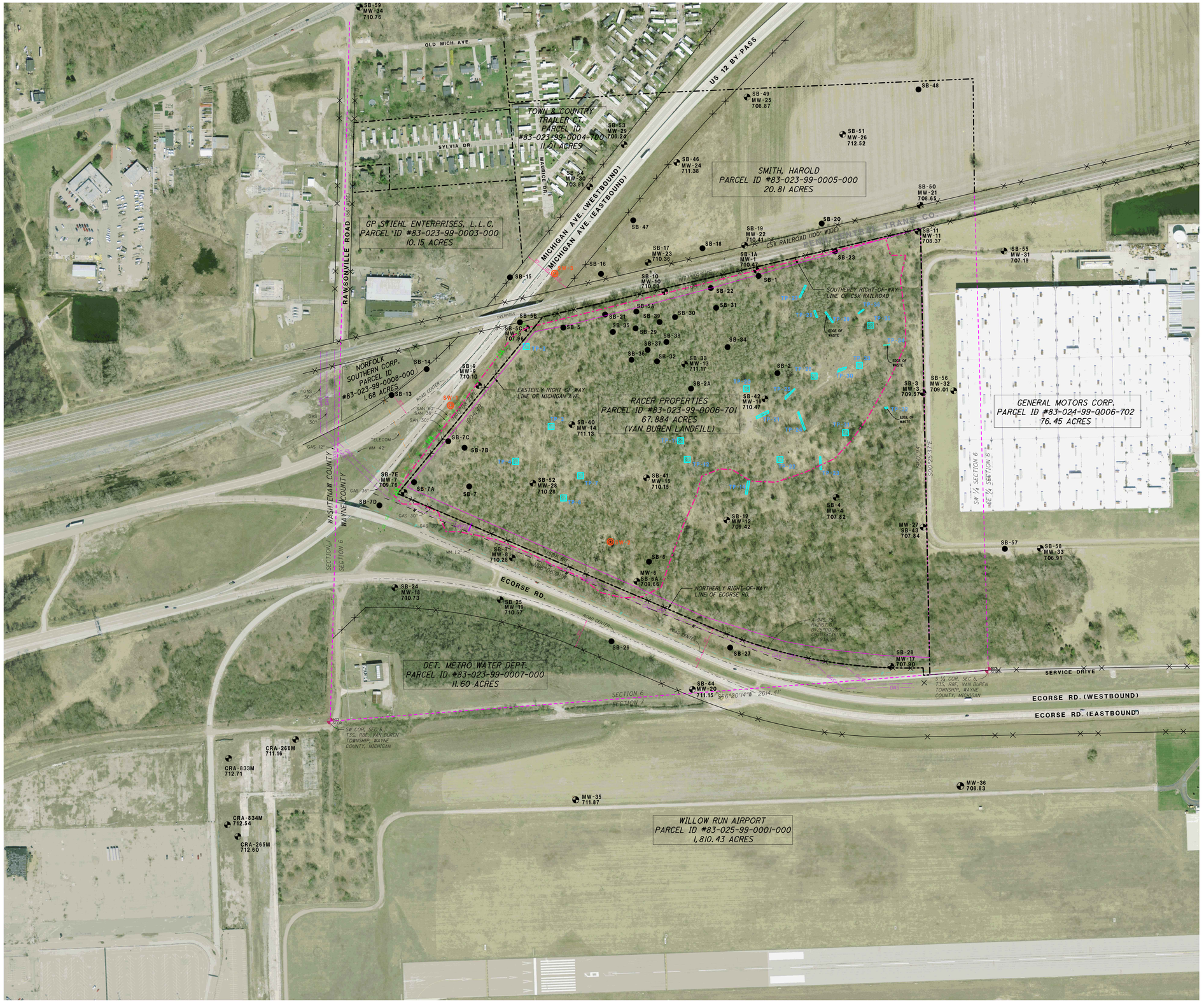
Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

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	13.07	1.73
MW-4	21.60	21.58	0.02
MW-5	30.02	29.7	0.32
MW-6	16.38	15.72	0.66
MW-7	8.81	8.85	-0.04
MW-8	7.78	ND	ND
MW-9	14.81	14.7	0.11
MW-10	23.45	23.4	0.05
MW-11	18.12	18.17	-0.05
MW-12	18.66	17.6	1.06
MW-13	25.94	24.5	1.44
MW-14	17.70	17.63	0.07
MW-15	15.72	16.40	-0.68
MW-16	16.28	16.66	-0.38
MW-17	17.84	17.79	0.05
MW-18	16.66	15.64	1.02
MW-19	14.63	14.42	0.21
MW-20	15.47	14.91	0.56
MW-21	15.36	14.23	1.13
MW-22	15.42	14.93	0.49
MW-23	15.74	15.08	0.66
MW-24	16.19	ND	ND
MW-25	16.52	16.1	0.42
MW-26	17.19	16.4	0.79
MW-27	13.97	13.82	0.15
MW-28	21.70	22.89	-1.19
MW-29	12.22	11.71	0.51
MW-30	12.36	12.20	0.16
MW-31	8.99	8.95	0.04
MW-32	9.5	8.1	1.4
MW-33	18.59	18.12	0.47
MW-34	18.89	13.18	5.71
MW-35	10.48	9.95	0.53
MW-36	10.29	10	0.29
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





GRAPHIC SCALE

0' 200' 400'

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.

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

Mannik Smith Group
TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

Revitalizing Auto Communities Environmental Response Trust

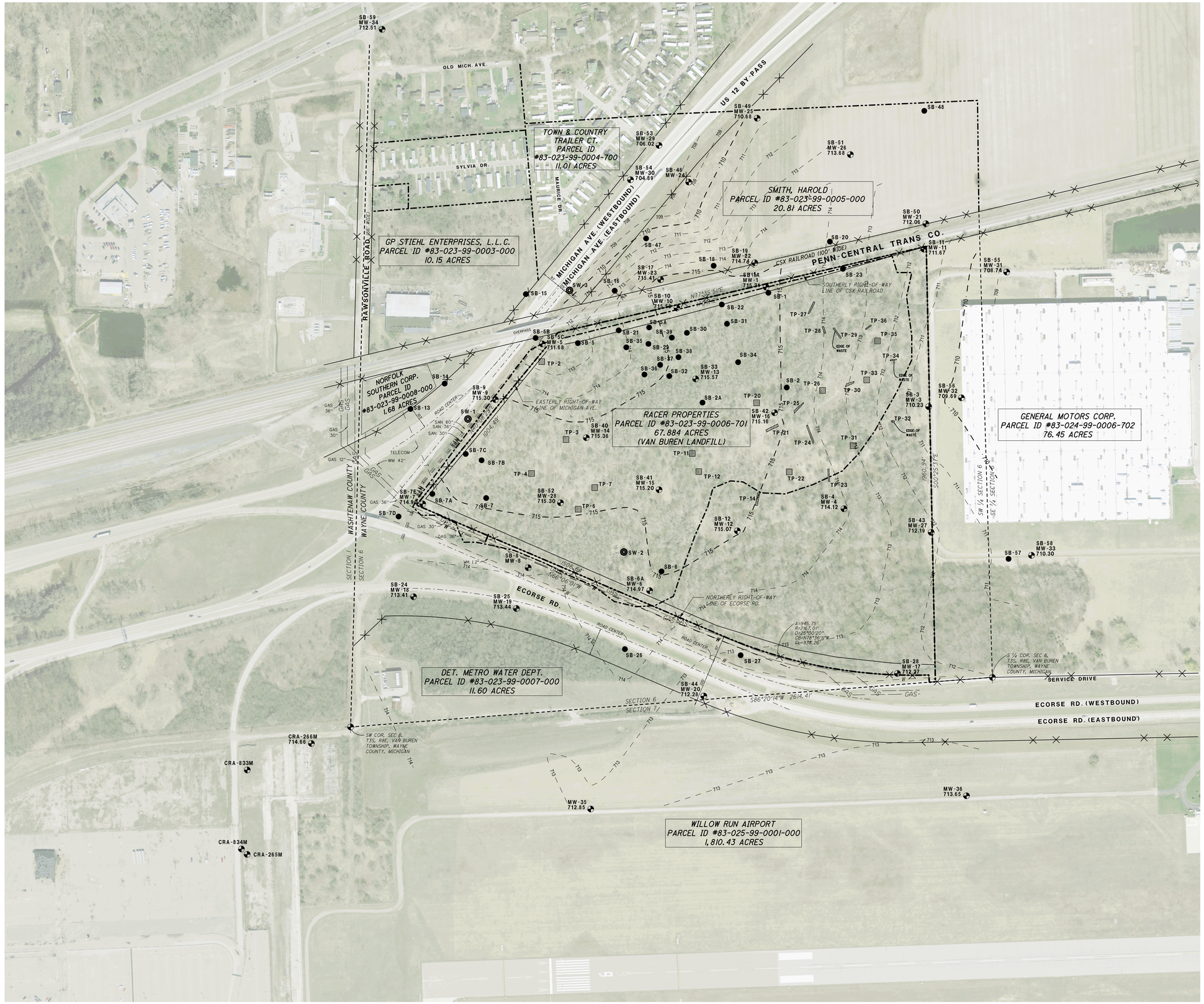
RACER

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

FIGURE 2
SITE MAP

8/28/2019

W:\Projects\Projects P-TX\R2330025\CAD\BASE\R2330025_Fig2_SITE _MAP.dgn



MSG

GRAPHIC SCALE

0' 200' 400'

LEGEND

- PROPERTY LINE
- R/W LINE
- FENCE
- EXTENT OF EARTH DISTRUBANCE BASED ON APRIL 26, 1970 AERIAL PHOTO
- EXISTING GAS MAIN
- F 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-8, MW-24, CRA 265M, CRA 833M, CRA 834M, & 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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VAN BUREN LANDFILL SITE (11070)
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TWP., WAYNE CO. MICHIGAN

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP (APRIL 2020)

7/7/2020

W:\Projects\Projects P-T\R2330026\CAD\SURVEY\R2330026.GW_Fig2_GW_Flow_Apr-20.dgn



MSG

GRAPHIC SCALE

0' 200' 400'

MDEQ Part 201 Non-Residential Health Based Clean Up Criteria

Al = 4,100 ug/l
Fe = 5,600 ug/l
Mn = 2,500 ug/l

MDEQ Part 201 Residential Health Based Clean Up Criteria

Al = 300 ug/l
Fe = 2,000 ug/l
Mn = 860 ug/l

CHEMICAL ABBREVIATIONS

B = Benzene
Ba = Barium
As = Dissolved Arsenic
Fe = Dissolved Iron
Mn = Manganese
BC = Below Applicable Criteria

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
- EXISTING STORM
- ST (3) THREE EX. PARALLEL STORM SEWERS
- SURFACE WATER SAMPLE LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- TEST PIT LOCATION
- TP-32

GENERAL NOTES:

1. AERIAL PHOTO FROM SEMCOG DATED 2010.
2. UTILITY LOCATIONS BASED ON INFORMATION FROM SAP/QAPP AND MISS DIG UTILITY MARKINGS.
3. OFF-SITE LOCATIONS COMPARED TO RESIDENTIAL CRITERIA. ON-SITE LOCATIONS COMPARED TO NON-RESIDENTIAL CRITERIA.
4. ALL RESULTS EXPRESSED IN MICROGRAMS PER LITER.
5. ONLY EXCEEDENCES OF NON-RESIDENTIAL HEALTH-BASED DRINKING WATER CRITERIA AND RESIDENTIAL HEALTH-BASED DRINKING WATER CRITERIA ARE SHOWN.
6. ONLY EXCEEDENCES OF DISSOLVED METALS ARE SHOWN. THERE ARE EXCEEDENCES OF TOTAL METALS NOT DISPLAYED IN THE FIGURE (REFER TO TABLE).

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

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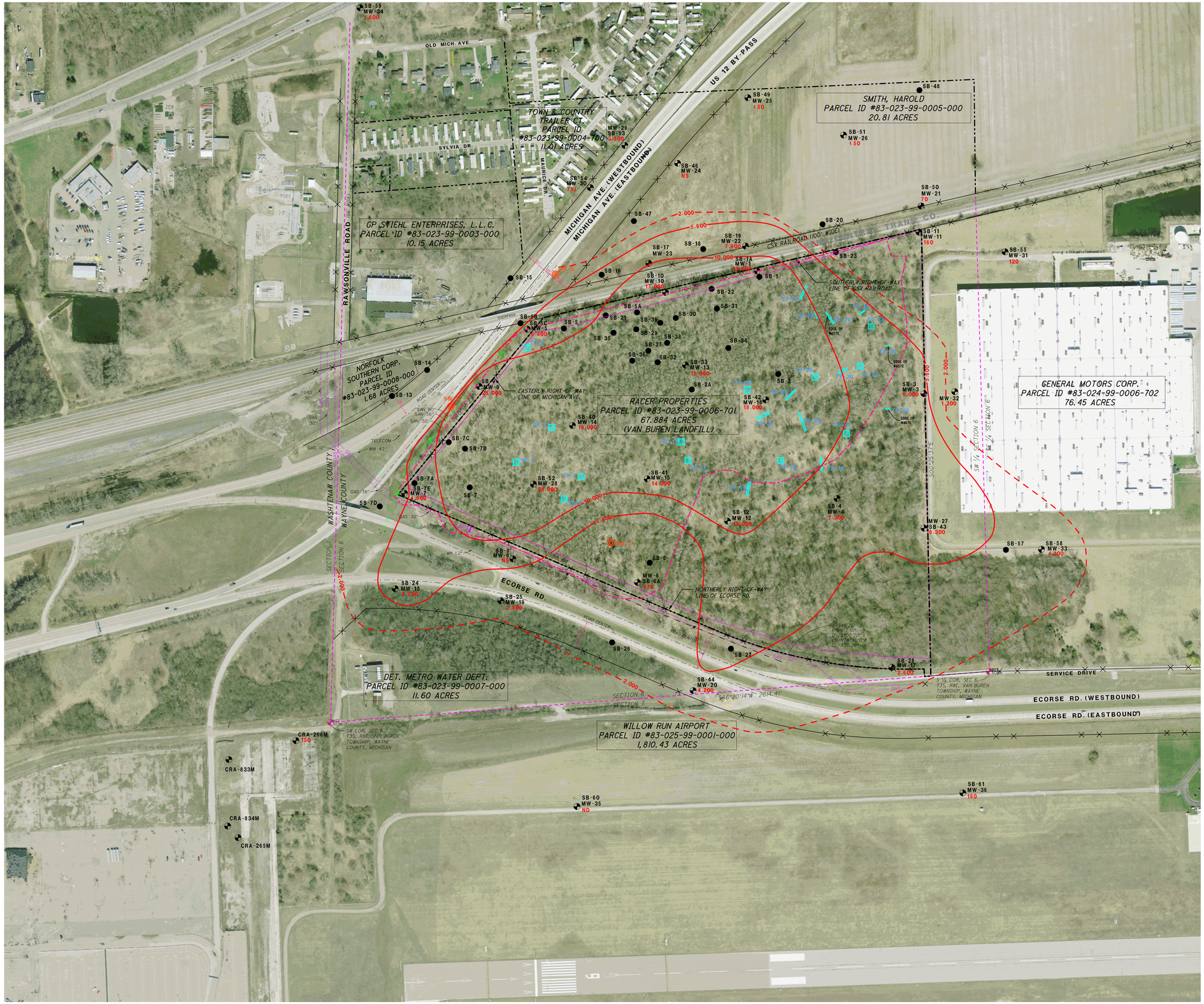
PACER

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

FIGURE 3
MONITORING WELL ANALYTICAL SUMMARY THROUGH MAY 2020
SEMI-ANNUAL GROUNDWATER MONITORING (EXCEEDENCES ONLY)

6/25/2020

W:\Projects\Projects P-T\R2330026\CAD\BASE\R2330026.MW_Analytical_Summary FIG_3-May_2020.dgn



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
- EXISTING STORM
- ST (3) THREE EX. PARALLEL STORM SEWERS
- SURFACE WATER SAMPLE LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- TEST PIT LOCATION
- TP-32
- 4.400 DISSOLVED IRON CONCENTRATION AT WELL LOCATION
- NS NOT SAMPLED
- 5.600 NON-RESIDENTIALHEALTH BASED DRINKING WATER VALVE (DISSOLVED IRON ISOCONTOUR (ug/L))
- 2.000 RESIDENTIAL HEALTH BASED DRINKING WATER VALVE (ug/L)

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.
8. ND = NOT DETECTED ABOVE LABORATORY DETECTION LIMIT

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 2020)

7/27/2020

W:\Projects\Projects P-T\R2330026\CAD\BASE\R2330026_Dissolved_Iron_Isoconcentration_Map FIG_4_May-2020.dgn

ATTACHMENT 1

LOW FLOW GROUND WATER FIELD SAMPLING FORMS

LOW FLOW GROUND WATER SAMPLING FORM

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SAMPLE LOCATION: MW-31

DATE: 5/18/20

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

PERSONNEL: KRM

SITE CONDITIONS: overcast / rain

OBSERVERS: _____

DEPTH OF WELL: 2.95'

DEPTH TO WATER LEVEL: 0.75

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%			
9:55	0.5	57.6	0.630	3.81	9.02	271	0.0	0.10		
1000	0.5	56.7	0.641	3.94	8.48	276	0.0	0.20		
1005	0.5	56.6	0.654	4.64	8.17	267	0.0	0.30		
1010	0.6	57.1	0.674	4.94	7.99	270	10m+	0.40		
1015	0.6	57.1	0.676	5.67	7.97	282	7.31	0.48		
1020	0.65	56.4	0.687	5.67	7.86	295	0.0	0.60		
1025	0.65	56.6	0.694	5.47	7.77	307	0.0	0.65		
1040	0.65	57.5	0.716	5.50	7.82	316	0.0	0.7		
1045	0.80	57.0	0.712	5.60	7.65	311	0.0	0.75		

reset

SAMPLE ID: W-RZ330026-051820-KRM-001

SAMPLE DATE: 5/18/20

SAMPLE TIME: 1050

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: 5/18/2020

SAMPLE LOCATION: MW-35

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

PERSONNEL: JPM.

OBSERVERS: _____

SITE CONDITIONS: windy, cloudy, rain 57°F

DEPTH OF WELL: 9.95

DEPTH TO WATER LEVEL: 3.40

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%			
1133	4.39	57.6	0.060	11.69	9.00	244	490	.1		
1138	4.34	58.3	0.302	6.72	8.73	265	0	.2		
1143	4.38	57.3	.360	6.76	8.90	244	0	.3		
1148	4.38	57.9	.315	6.47	8.79	270	519	.4		
1153	4.37	58.1	.314	6.53	8.69	100	500	.6		
1158	4.38	58.1	.298	6.43	8.74	109	491	.7		
1203	4.38	57.9	.295	6.33	8.70	99	501	.9		

SAMPLE ID: MW-R2330026-051820-JPM-002

SAMPLE DATE: 5/18/20

SAMPLE TIME: 1205

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: 5/18/20

SAMPLE LOCATION: MW-32

PERSONNEL: KRM

OBSERVERS: _____

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: rain

DEPTH OF WELL: 8.1

DEPTH TO WATER LEVEL: 2.6

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
1130	2.7	55.6	0.800	6.98	7.70	339	844	0.15		
1135	2.7	55.0	0.671	6.95	7.72	336	120	0.35		
1140	2.71	54.4	0.693	6.77	7.61	337	13.1	0.75		
1145	2.71	54.2	0.763	6.54	7.54	334	3.5	1.15		
1150	2.71	54.2	0.783	6.50	7.53	330	5.9	1.50		
1155	2.71	54.2	0.806	6.47	7.51	325	5.9	2.25		
1200	2.71	54.2	0.819	6.42	7.52	320	4.8	2.75		
1205	2.71	54.2	0.833	6.46	7.51	313	0.7	3.50		
1210	2.71	54.1	0.847	6.30	7.51	310	0.8	4.25		

SAMPLE ID: W-R2330026-051820-KRM-003

SAMPLE DATE: 5/18/20

SAMPLE TIME: 1215

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: 5/19/20

SAMPLE LOCATION: MW-36

PERSONNEL: JPM

OBSERVERS: Sue Wurst

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: windy cloudy Sprinkle 57°F

DEPTH OF WELL: 10.00

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 1.60

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%			
1219	1.61	58.6	1.12	8.41	8.79	290	556	.2		
1224	1.59	58.6	1.12	3.84	8.11	103	961	.4		
1229	1.59	58.5	1.13	3.00	7.97	83	398	.6		
1234	1.59	58.3	1.13	2.66	7.92	76	349	.8		
1239	1.59	58.2	1.13	2.43	7.89	68	316	1		
1244	1.59	58.2	1.13	2.30	7.87	64	277	1.2		
1249	1.59	58.2	1.12	2.30	7.86	60	273	1.4		
1254	1.59	58.2	1.13	2.28	7.84	58	269	1.6		

SAMPLE ID: MW-R2330026 - 051820 - JPM - 004

SAMPLE DATE: 5/18/20

SAMPLE TIME: 1306

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-33

DATE: 5/18/20

PROJECT #: R2330026

PERSONNEL: KRM

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

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

SITE CONDITIONS: Overcast

DEPTH OF WELL: 18.12

DEPTH TO WATER LEVEL: 1.61

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
1250	1.78	54.8	1.80	2.37	8.00	300	1000+	0.0		
1255	1.98	52.6	1.85	1.33	7.76	296	4.17	0.50		
1300	2.05	52.6	1.87	1.12	7.71	278	1.29	0.85		
1305	2.05	52.4	1.89	1.07	7.69	254	25.1	1.35		
1310	2.05	52.4	1.90	1.03	7.69	239	16.9	2.00		
1315	2.05	52.4	1.91	1.02	7.69	229	3.4	2.80		
1320	2.05	53.0	1.91	0.99	7.69	213	0.0	3.50		
1325	2.05	53.4	1.92	1.01	7.68	203	4.9	4.25		
1330	2.05	53.5	1.92	1.01	7.69	203	5.0	4.80		

SAMPLE ID: MW-R2330026-051820-KRM-005

SAMPLE DATE: 5/18/20

SAMPLE TIME: 1335

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: 5/19/20

PERSONNEL: JPM

OBSERVERS: _____

SAMPLE LOCATION: MW-29

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: 60°F cloudy Rainy

DEPTH OF WELL: 11.71

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 4.43

WELL DIAMETER: _____

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
1000	4.42	56.8	.841	3.22	8.07	0	149	.3		
1005	4.41	54.9	.932	2.44	8.02	-41	80	.5		
1010	4.41	54.4	.980	2.24	7.96	-49	73	.8		
1015	4.41	54.3	.982	2.23	7.96	-52	65	1.1		
1020	4.41	54.0	.999	2.11	7.94	-51	70	1.3		
1025	4.41	53.9	1.02	2.02	7.91	-53	63	1.5		
1030	4.41	53.9	1.02	1.99	7.90	-63	64	1.8		
1035	4.41	53.7	1.03	1.97	7.89	-65	60	2		

SAMPLE ID: W-R2330026-051920-3PM-007

SAMPLE DATE: 5/19/20

SAMPLE TIME: 1038

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: 5/19/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 8.85

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-7

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: overcast

DEPTH TO WATER LEVEL: 1.95

WELL DIAMETER: _____

CASING TYPE: _____

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
11:10	2.83	53.4	0.591	7.86	8.91	307	155	.15		
11:15	3.05	52.4	0.731	4.15	8.31	281	30.6	.50		
11:20	3.05	51.9	0.967	2.61	7.90	227	2.9	1.25		
11:25	3.03	51.7	1.25	2.52	7.76	194	0.0	2.00		
11:30	3.05	51.6	1.36	1.94	7.70	178	0.0	2.75		
11:35	3.05	51.6	1.53	1.77	7.67	166	0.0	3.50		
11:40	3.05	51.5	1.63	1.66	7.62	156	0.0	3.85		
11:45	3.06	51.5	1.73	1.51	7.58	143	0.0	4.00		
11:50	3.06	51.5	1.81	1.46	7.58	136	0.0	4.50		
11:55	3.06	51.4	1.85	1.41	7.56	127	0.0	4.90		
12:00	3.06	51.4	1.87	1.38	7.56	126	0.0	5.25		

SAMPLE ID: MW-R2330026-051920-KRM-008

SAMPLE DATE: 5/19/20

SAMPLE TIME: 1205

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: 5/19/20

SAMPLE LOCATION: MW-30

PERSONNEL: JPM

OBSERVERS:

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS:

DEPTH OF WELL: 12.20

DEPTH TO WATER LEVEL: 3.65

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
1105	6.58	54.9	.487	3.59	8.07	191	57.7	1.2		
1110	5.97	54.9	.482	2.93	8.04	188	59.4	1.4		
1115	6.56	55.1	.483	2.60	8.07	186	63.9	1.7		
1120	6.98	55.2	.483	2.49	8.03	184	65.4	1		
1125	7.65	55.2	.480	2.44	8.07	185	60.9	1.2		
1130	7.68	55.3	.478	2.34	8.06	186	56.9	1.4		
1135	7.80	55.3	.485	2.27	8.06	184	52.5	1.7		
1140	7.81	55.3	.487	2.06	8.06	181	49.1	2		
1145	7.82	55.4	.491	1.96	8.06	176	46.3	2.2		

SAMPLE ID: W-R2330026-051920-JPM-009

SAMPLE DATE: 5/19/20

SAMPLE TIME: 1150

Notes: Began purging @ 1105

[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: 5/19/20

PERSONNEL: ICRM

OBSERVERS: _____

DEPTH OF WELL: 17.79

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-17

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: overcast, Light rain

DEPTH TO WATER LEVEL: 4.81

WELL DIAMETER: _____

CASING TYPE: _____

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
1255	4.92	52.7	2.37	14.91	7.91	268	0.0	.25		
1300	4.89	50.4	1.92	2.90	7.91	247	103	.85		
1305	4.90	50.4	1.76	1.94	7.83	224	30.6	1.60		
1310	4.90	50.3	1.70	1.67	7.78	204	15.1	2.40		
1315	4.90	49.7	1.71	1.53	7.74	184	8.3	3.25		
1320	4.90	49.5	1.70	1.40	7.71	162	4.8	3.80		
1325	4.90	49.5	1.70	1.36	7.69	158	0.0	21.50		
1330	4.90	49.8	1.68	1.28	7.68	136	0.0	5.25		
1335	4.90	49.7	1.68	1.26	7.68	129	0.0	5.75		
1340	4.90	49.7	1.68	1.26	7.66	126	0.0	6.25		

SAMPLE ID: W-R2330026-051920-ICRM-010

SAMPLE DATE: 5/19/20

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

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DATE: 5/19/20

SAMPLE LOCATION: MW-34

PROJECT #: R2330026

PERSONNEL: JPM

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

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

SITE CONDITIONS: windy rainy

DEPTH OF WELL: 13.18

DEPTH TO WATER LEVEL: 2.67

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%			
1227	2.75	51.1	1.60	9.32	7.81	202	113	.1		
1232	2.77	50.5	1.56	2.29	7.78	91	85.3	.4		
1237	2.78	50.5	1.46	1.92	7.79	21	65.9	.8		
1242	2.79	50.4	1.42	1.74	7.79	-21	56	1.1		
1247	2.80	50.4	1.40	1.65	7.79	-42	50.7	1.4		
1252	2.77	50.6	1.40	1.59	7.79	-53	47.6	1.7		
1257	2.77	50.6	1.39	1.66	7.79	-59	46.5	2		
1302	2.77	50.7	1.39	1.55	7.80	-63	64.3	2.3		
1307	2.78	50.6	1.39	1.52	7.80	-66	46.4	2.6		

SAMPLE ID: W-R2330026-051920-JPM-011

SAMPLE DATE: 5/19/20

SAMPLE TIME: 1310

Notes: Start purging @ 1220

[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: 5/19/2020

PERSONNEL: JPM

OBSERVERS: _____

SAMPLE LOCATION: MW-20

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Windy Cloudy 69°F

DEPTH OF WELL: 14.91

DEPTH TO WATER LEVEL: 4.23

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

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

mS

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%			
1355	4.24	52.4	2.341	2.98	7.61	-10	1000	.2		
1400	4.26	52.0	2.33	2.08	7.62	-49	801	.5		
1405	4.24	51.9	2.34	1.84	7.60	-60	612	.75		
1410	4.26	51.9	2.34	1.75	7.60	-64	555	.95		
1415	4.25	52.2	2.34	1.67	7.59	-68	443	1.15		
1420	4.26	52.4	2.34	1.63	7.59	-70	387	1.3		
1425	4.25	52.4	2.35	1.62	7.59	-72	344	1.7		
1430	4.25	52.5	2.35	1.59	7.59	-73	318	2		
1435	4.25	52.4	2.35	1.58	7.59	-74	304	2.3		
1440	4.25	52.4	2.36	1.57	7.59	-75	288	2.6		

SAMPLE ID: W-R2330026-051920-JPM-013

SAMPLE DATE: 5/19/20

SAMPLE TIME: 1445

Notes: Start purge @ 1345

[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: 5/20/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 12.05

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: CRA-266M

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH TO WATER LEVEL: 2.31

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%			
835	2.35	62.0	0.569	14.37	9.93	273	0.0	0.10		
840	2.34	61.1	0.624	3.16	8.60	326	0.0	0.25		
845	2.34	60.0	0.648	2.46	8.12	340	0.0	0.40		
850	2.36	58.6	0.693	2.02	7.75	354	0.0	0.70		
855	2.35	58.1	0.713	1.85	7.64	359	0.0	1.10		
900	2.35	57.3	0.734	1.76	7.57	363	0.0	1.40		
905	2.35	57.1	0.749	1.64	7.51	367	0.0	1.85		
910	2.35	56.4	0.756	1.59	7.50	369	0.0	2.25		
~~915~~										

SAMPLE ID: W-R2330026-052020-KRM-014

SAMPLE DATE: 5/20/20

SAMPLE TIME: 915

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: 5/20/20

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: MW-26

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny, 70°F, slight breeze

DEPTH OF WELL: 16.40

DEPTH TO WATER LEVEL: 6.15

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%			
1128										
1148	6.25	55.5	0.417	6.37	8.24	298	103	0.3		
1153	6.25	54.3	0.420	6.36	8.24	301	72.7	0.5		
1158	6.25	54.0	0.420	6.42	8.24	305	62.8	0.6		
1203	6.25	54.0	0.417	6.47	8.24	306	63.2	0.7		

SAMPLE ID: R2330026 - 052020 - SSR - 1015

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1205

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: 5/20/20

SAMPLE LOCATION: MW-28

PERSONNEL: KRM

OBSERVERS: _____

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH OF WELL: 22.89

DEPTH TO WATER LEVEL: 9.24

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
1035	9.33	57.6	2.48	1.18	7.37	300	590	0.5		
1040	9.38	57.3	2.49	1.08	7.36	187	33.1	1.00		
1045	9.35	57.3	2.50	1.05	7.36	123	17.8	1.75		
1050	9.35	57.2	2.49	1.02	7.36	76	50.9	2.50		
1055	9.35	57.2	2.49	1.01	7.37	37	28.3	3.25		
1100	9.35	57.2	2.48	0.99	7.38	12	18.9	3.85		
1105	9.35	57.2	2.48	0.98	7.37	-15	12.9	4.50		
1110	9.35	57.2	2.47	0.97	7.37	-34	9.8	5.25		
1115	9.35	57.2	2.47	0.97	7.37	-44	6.2	6.00		
1120	9.35	57.2	2.46	0.96	7.38	-59	4.6	6.75		
1125	9.35	57.2	2.46	0.95	7.39	-68	2.8	7.50		
1130	9.35	57.2	2.46	0.94	7.38	-76	6.6	8.25		
1135	9.35	57.2	2.45	0.94	7.39	-81	0.8	9.00		

SAMPLE ID: W-R2330026-052020-KRM-016

SAMPLE DATE: 5/20/20

SAMPLE TIME: 11:40

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: 5/20/20

SAMPLE LOCATION: MW-21

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

PERSONNEL: _____

OBSERVERS: _____

SITE CONDITIONS: _____

DEPTH OF WELL: 14.23

DEPTH TO WATER LEVEL: 5.53

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
1235										
1245	5.58	52.6	0.004	9.44	8.48	194	424	0.1		
1250	5.58	55.8	0.000	8.91	8.31	209	421	0.1		
1255	5.58	56.5	0.000	8.27	8.16	233	427	0.1		
1300	5.58	55.7	0.000	8.92	8.14	238	416	0.1		
1305	5.58	55.9	0.000	8.71	8.22	243	420	0.2		
1310	5.58	56.3	0.000	8.69	8.23	238	433	0.2		

SAMPLE ID: R2330026-052020-SSR-017

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1310

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: 5/20/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 17.63

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-14

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH TO WATER LEVEL: 11.78

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%			
1215	12.05	59.5	2.35	2.01	8.03	177	286	.15		
1220	12.03	58.6	2.28	1.46	7.70	135	62.8	.75		
1225	12.03	58.7	2.26	1.32	7.51	92	20.9	1.50		
1230	12.04	58.7	2.26	1.46	7.45	69	13.2	2.25		
1235	12.04	58.5	2.24	1.62	7.42	55	8.7	2.75		
1240	12.04	58.7	2.25	1.72	7.40	45	3.9	3.25		
1245	12.04	58.6	2.25	1.80	7.39	40	3.5	3.80		
1250	12.04	58.7	2.25	1.76	7.39	35	0.6	4.25		

SAMPLE ID: W-R2330026-052020-KRM 018

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1255

Notes: Dup-1 taken here @ 1255 ID W-R2330026-052020-KRM 020

[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: 5/20/20

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: MW-22

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny, 70°F, breezy

DEPTH OF WELL: 14.93

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 4.10

WELL DIAMETER: _____

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
1345										
1355	4.06	65.5	0.001	9.34	8.36	109	449	1.5		
1400	4.06	65.9	0.000	9.42	8.33	122	449	1.7		
1405	4.06	66.0	0.000	8.75	8.31	157	362	2		
1410	4.06	66.2	0.435	5.90	8.08	187	370	2.2		
1415	4.06	66.1	0.440	5.32	7.98	196	370	2.5		
1420	4.06	65.4	0.451	5.20	7.95	200	370	2.6		

SAMPLE ID: R2330026-052020-SSR-019

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1420

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-23

DATE: 5/20/20

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Sunny, 70°F Breezy

DEPTH OF WELL: 15.08

DEPTH TO WATER LEVEL: 5.605

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
1445										
1455	5.52	51.1	1.75	9.05	7.92	31	134	2		
1500	5.51	51.2	1.81	9.09	7.92	32	131	2.2		
1505	5.51	51.3	1.87	9.68	8.02	33	126	2.5		

SAMPLE ID: R2330026-052020-SSR-021

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1508

Notes: * VOA

[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: 5/20/20

SAMPLE LOCATION: MW-15

PERSONNEL: KCM

OBSERVERS: _____

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH OF WELL: 16.40

DEPTH TO WATER LEVEL: 11.18

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
1330	11.18	66.0	2.42	2.65	7.64	193	10.1	0.50		
1335	11.14	65.2	2.40	1.26	7.56	135	17.4	1.75		
1340	11.15	64.9	2.36	1.01	7.51	69	0.0	2.50		
1345	11.15	60.4	2.52	1.07	7.54	37	0.0	3.00		
1350	11.15	60.6	2.50	1.00	7.56	-1	0.0	3.50		
1355	11.15	60.9	2.49	0.96	7.60	-15	0.0	4.00		
1400	11.15	60.9	2.48	0.93	7.66	-28	0.0	4.50		
1405	11.15	61.1	2.47	0.90	7.71	-40	0.0	5.00		
1410	11.15	61.1	2.47	0.89	7.74	-46	0.0	5.50		
1415	11.15	61.1	2.47	0.87	7.76	-50	0.0	6.00		

SAMPLE ID: W-R2330026-052020-KCM-022

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1420

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: 5/21/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 21.58

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-4

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH TO WATER LEVEL: 9.60

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%			
805	9.80	57.0	1.93	26.50	9.25	292	62.5	0.0		
810	9.85	50.4	2.24	5.65	8.34	310	17.1	0.30		
815	9.84	49.8	2.30	3.61	7.78	301	9.6	1.00		
820	9.84	49.6	2.35	2.90	7.53	283	6.0	1.75		
825	9.84	49.6	2.36	2.78	7.47	274	8.9	2.35		
830	9.84	49.6	2.34	3.33	7.40	262	7.3	3.00		
835	9.84	49.5	2.39	2.50	7.33	244	3.4	3.75		
840	9.84	49.5	2.40	2.31	7.32	237	3.4	4.00		
845	9.84	49.5	2.40	2.25	7.32	234	3.2	4.75		
8										

SAMPLE ID: MW-R2330026-052120-KRM-073

SAMPLE DATE: 5/21/20

SAMPLE TIME: 850

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-12

DATE: 5/20/20

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: KRM

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

OBSERVERS: _____

SITE CONDITIONS: Sunny

DEPTH OF WELL: 17.60

DEPTH TO WATER LEVEL: 6.96

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
1445	6.88	62.8	0.955	6.07	8.15	181	0.0	0.15		
1450	6.93	61.9	1.13	1.42	7.63	145	1000+	0.50		
1455	6.93	60.5	1.28	1.15	7.43	116	604	1.25		
1500	6.94	52.0	1.57	1.25	7.35	76	297	2.00		
1505	6.94	51.8	1.67	1.13	7.32	33	108	2.75		
1510	6.94	51.8	1.69	1.09	7.32	18	56.9	3.25		
1515	6.94	51.9	1.73	1.04	7.32	-17	14.3	3.80		
1520	6.94	51.8	1.73	1.02	7.32	-22	10.3	4.25		
1525	6.94	51.8	1.74	0.99	7.34	-33	5.0	5.00		
1530	6.94	52.0	1.74	0.98	7.35	-39	4.1	5.50		
1535	6.94	51.8	1.75	0.97	7.37	-43	1.2	6.00		

SAMPLE ID: MW-R2330026-052020-KRM-024

SAMPLE DATE: 5/20/20

SAMPLE TIME: 1540

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: 5/21/20

PERSONNEL: KRM

OBSERVERS: _____

SAMPLE LOCATION: MW27

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH OF WELL: 13.82

DEPTH TO WATER LEVEL: 2.70

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
915	2.75	50.1	1.89	1.21	7.63	272	68.1	0.0		
920	2.75	49.4	1.78	1.78	7.51	240	33.5	1.50		
925	2.75	49.4	1.67	1.52	7.47	212	19.6	2.30		
930	2.75	49.4	1.58	1.40	7.46	196	13.5	2.85		
935	2.75	49.4	1.53	1.32	7.45	183	9.3	3.50		
940	2.75	49.5	1.51	1.31	7.45	175	8.0	4.00		
945	2.75	49.4	1.49	1.28	7.44	163	4.7	4.75		
950	2.75	49.5	1.49	1.26	7.45	156	3.7	5.25		
955	2.75	49.5	1.47	1.24	7.55	136	2.0	5.75		
1000	2.75	49.5	1.47	1.22	7.57	129	0.9	6.25		
1005	2.75	49.5	1.46	1.19	7.59	126	0.5	7.00		

SAMPLE ID: R2330026-052120-KRM-075

SAMPLE DATE: 5/21/20

SAMPLE TIME: 1010

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: 5/21/20

SAMPLE LOCATION: MW-3

PERSONNEL: KRM

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

OBSERVERS: _____

SITE CONDITIONS: Sunny

DEPTH OF WELL: 13.07

DEPTH TO WATER LEVEL: 4.05

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%			
1045	4.15	56.2	2.90	1.81	7.63	287	0.0	0.25		
1050	4.15	57.1	2.06	1.03	7.59	222	48.6	1.50		
1055	4.15	57.9	1.86	0.90	7.54	161	10.2	2.00		
1100	4.15	57.8	1.84	0.89	7.54	149	7.4	2.50		
1105	4.15	58.2	1.83	0.86	7.55	137	4.9	3.00		
1110	4.15	58.4	1.81	0.87	7.66	103	1.0	3.75		
1115	4.15	58.6	1.79	0.86	7.81	79	0.0	4.25		
1120	4.15	58.6	1.78	0.85	7.87	63	0.0	5.00		
11:25	4.15	58.6	1.75	0.84	7.79	55	0.0	5.75		
11:30	4.15	59.2	1.73	0.83	7.76	45	0.0	6.50		
11:35	4.15	59.3	1.72	0.82	7.74	35	0.0	7.25		
11:40	4.15	59.2	1.71	0.82	7.72	35	0.0	7.75		

SAMPLE ID: 6-R2330026-052120-KRM-027

SAMPLE DATE: 5/21/20

SAMPLE TIME: 11:45

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: 5/21/20

PERSONNEL: ICRM

OBSERVERS: _____

SAMPLE LOCATION: MW-11

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Sunny

DEPTH OF WELL: 18.17

DEPTH TO WATER LEVEL: 6.65

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
~~1235~~										
1240	6.75	53.5	0.665	4.03	8.49	247	331	1.00		
1245	6.72	52.9	0.757	2.63	7.78	275	139	1.50		
1250	6.73	52.1	0.816	2.38	7.57	285	53.1	2.25		
1255	6.73	51.9	0.850	2.34	7.48	288	21.2	3.00		
1300	6.73	52.0	0.855	2.33	7.46	289	14.1	3.75		
1305	6.73	51.8	0.871	2.27	7.44	292	8.8	4.5		
1310	6.73	51.6	0.874	2.28	7.43	294	7.5	5.00		
1315	6.73	51.2	0.891	2.42	7.41	297	7.8	5.75		
~~1320~~										
~~1325~~										

SAMPLE ID: MW2330026-052120-ICRM-020

SAMPLE DATE: 5/21/20

SAMPLE TIME: 1320

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.

DATE: 5/22/20

SAMPLE LOCATION: MW-6

PERSONNEL: KRM

OBSERVERS: _____

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: rain

DEPTH OF WELL: 15.22

DEPTH TO WATER LEVEL: 3.5

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%			
810	3.75	53.6	1.07	4.82	8.66	332	64.7	.75		
815	3.74	53.1	1.10	2.47	7.99	334	0.5	2.00		
820	3.74	53.0	1.11	2.00	7.72	339	0.0	2.75		
825	3.75	52.8	1.11	1.74	7.60	336	0.0	3.65		
830	3.75	52.6	1.12	1.60	7.56	332	0.0	4.50		
835	3.75	52.5	1.12	1.50	7.53	327	0.0	5.50		

SAMPLE ID: WR2330026-052220-KRM-030

SAMPLE DATE: 5/22/20

SAMPLE TIME: 840

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. PASSION. TEAMWORK. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-18

DATE: 5/22/19

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Rainy, Overcast, 59°F

DEPTH OF WELL: 15.64

DEPTH TO WATER LEVEL: 1.46

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%			
900										
910	2.80	51.7	0.043	11.63	7.23	60.8	4.18	1.5		
915	2.80	51.7	0.043	11.22	7.26	64.2	1.19	3.0		
920	2.80	51.7	0.043	11.22	7.29	64.9	1.19	4.5		

SAMPLE ID: R2330026-052220-SSR-01

SAMPLE DATE: 5/22/20

SAMPLE TIME: 925

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. EXCEPTIONAL SERVICE. — www.MannikSmithGroup.com

DATE: 5/22/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 29.70

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-5

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: overcast light rain

DEPTH TO WATER LEVEL: 2.94

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%			
940	8.15	58.9	2.69	4.21	7.27	368	639	.25		
945	8.14	59.1	2.70	2.58	7.41	322	501	.75		
950	8.15	59.4	2.68	1.72	7.60	253	280	1.50		
955	8.16	59.6	2.65	1.44	7.67	170	94	2.25		
1000	8.16	59.7	2.66	1.34	7.63	138	81.0	2.75		
1005	8.16	59.8	2.69	1.38	7.65	95	56.7	3.50		
1010	8.16	59.8	2.53	1.79	7.65	64	31.0	4.25		
1015	8.16	60.0	2.47	1.75	7.66	45	20.0	5.00		
1020	8.16	60.1	2.45	1.85	7.66	29	15.0	5.50		
1025	8.16	60.2	2.44	2.08	7.66	19	13.3	6.25		
1030	8.16	60.2	2.45	2.19	7.66	8	9.6	6.75		
1035	8.16	60.2	2.49	1.95	7.66	1	6.9	7.50		
10:40	8.16	60.2	2.48	2.12	7.67	-4	7.7	8.00		

SAMPLE ID: W-R2330026-052220-KRM-032

SAMPLE DATE: 5/22/20

SAMPLE TIME: 1045

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. INTEGRITY. RESULTS. — www.MannikSmithGroup.com

DATE: 5/22/20

SAMPLE LOCATION: MW-19

PERSONNEL: SSP

OBSERVERS: _____

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Rain - Overcast

DEPTH OF WELL: 14.42

DEPTH TO WATER LEVEL: 1.92

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%			
945										
955	2.08	51.3	5.52	11.01	8.12	100	0.0	0.2		
1000	2.08	50.3	5.59	11.81	8.17	98	0.0	0.4		
1005	2.08	50.2	5.49	11.73	8.18	178	0.0	0.6		
1010	2.08	50.2	5.49	11.71	8.18	80	0.0	0.9		

SAMPLE ID: R2330026-052220-MW-19R3

SAMPLE DATE: 5/22/20

SAMPLE TIME: 1010

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.

DATE: 5/22/20

SAMPLE LOCATION: MW-9

PERSONNEL: KBM

PROJECT #: R2330026

OBSERVERS: _____

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: light rain

DEPTH OF WELL: 14.70

DEPTH TO WATER LEVEL: 5.87

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
1120	5.86	56.1	2.38	17.07	8.30	707	179	0.15		
1125	6.35	53.1	2.46	2.38	7.93	159	29.0	0.50		
1130	6.05	54.3	2.63	1.51	7.63	93	24.3	1.25		
1135	6.53	~~54~~ 53.1	2.50	1.33	7.55	44	29.8	2.00		
1140	6.53	53.1	2.51	1.22	7.53	3	18.5	2.75		
1145	6.57	53.0	2.51	1.16	7.52	-26	13.7	3.50		
1150	6.56	53.0	2.52	1.09	7.51	-43	9.9	4.25		
1155	6.56	53.0	2.52	1.07	7.51	-52	10.7	5.00		
1200	6.56	53.0	2.52	1.04	7.51	-60	7.2	5.75		
1205	6.56	53.0	2.52	1.02	7.50	-66	7.4	6.50		
1210	6.56	53.0	2.52	1.00	7.50	-70	6.6	7.25		

SAMPLE ID: MW2330026-052220-KBM-034

SAMPLE DATE: 5/22/20

SAMPLE TIME: 1215

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. — www.MannikSmithGroup.com

DATE: 5/22/20

PERSONNEL: SSP

OBSERVERS: _____

DEPTH OF WELL: 16.10

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-25

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Rainy, Overcast, 59°F

DEPTH TO WATER LEVEL: 6.50

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%			
1045										
1055	6.70	59.1	0.791	9.18	7.80	239	0.0	0.0		
1100	6.70	58.0	0.621	10.55	8.00	[illegible]	[illegible]	[illegible]		
1105	6.70	57.6	[illegible]	10.91	8.10	[illegible]	0.0	[illegible]		
1110	6.70	57.1	0.810	10.89	[illegible]	[illegible]	777	0.5		
1115	6.70	57.1	0.830	10.15	[illegible]	[illegible]	565	0.6		
1120	6.70	57.6	0.820	9.72	9.12	[illegible]	[illegible]	0.7		
1125	6.70	58.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.8		
1130	6.70	57.9	0.822	9.00	7.97	[illegible]	[illegible]	0.9		

SAMPLE ID: R2330026-052220-SSP-035

SAMPLE DATE: 5/22/20

SAMPLE TIME: 1130

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: 5/27/19

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 21.30

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-1

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Partly cloudy

DEPTH TO WATER LEVEL: 8.52

WELL DIAMETER: _____

CASING TYPE: _____

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
845	8.50	78.2	0.002	11.20	9.13	321	262	0.0		
850	8.60	60.4	2.31	3.83	8.77	342	19.0	0.25		
855	8.60	56.2	2.54	2.08	8.22	291	17.8	0.60		
900	8.60	54.6	2.63	1.91	7.74	246	14.5	1.00		
905	8.60	54.2	2.66	1.70	7.57	212	9.2	1.50		
910	8.60	54.1	2.68	1.53	7.50	175	5.5	2.00		
915	8.60	54.1	2.69	1.44	7.47	142	4.1	2.75		
920	8.60	54.0	2.70	1.36	7.46	111	0.7	3.50		
925	8.61	53.9	2.70	1.30	7.45	83	0.0	4.00		
930	8.61	53.9	2.70	1.25	7.44	53	0.0	4.50		
935	8.61	53.9	2.70	1.22	7.44	39	0.0	5.00		
940	8.61	53.8	2.70	1.20	7.45	22	0.0	5.50		

SAMPLE ID: W-R2330026-052720-KRM-037

SAMPLE DATE: 5/27/20

SAMPLE TIME: 9:40

Notes: Dup taken Here (MW-1) W-R2330026-052720-KRM-038 @945

* ORP Didn't equalize.

[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: 5/27/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 23.4

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

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

SAMPLE LOCATION: MW-10

PROJECT #: R2330026

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: Cloudy

DEPTH TO WATER LEVEL: 12.29

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%			
1035	12.31	67.5	0.822	7.54	6.48	220	1000	0.0		
1040	12.31	54.8	3.13	1.83	7.81	219	123	0.25		
1045	12.31	54.6	3.13	1.55	7.58	164	23.9	1.25		
1050	12.32	54.2	3.13	1.40	7.56	130	4.5	2.00		
1055	12.32	54.7	3.12	1.28	7.54	91	2.00	2.50		
1100	12.32	54.2	3.11	1.28	7.53	53	7.7	3.00		
1105	12.32	53.6	3.12	1.20	7.53	23	3.6	3.50		
1110	12.31	53.9	3.17	1.13	7.53	3	0.0	4.00		
1115	12.32	54.3	3.12	1.07	7.52	-16	0.0	4.50		
1120	12.32	54.4	3.12	1.01	7.51	-29	1.3	5.00		
1125	12.32	53.7	3.13	1.07	7.51	-34	1.8	5.50		
1130	12.32	54.2	3.12	1.02	7.51	-39	1.9	6.00		
~~1135~~										

SAMPLE ID: W-R2330026-052720-KRM-039

SAMPLE DATE: 5/27/20

SAMPLE TIME: 11:35

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

ATTACHMENT 2

LABORATORY ANALYTICAL DATA REPORTS

09-Jun-2020

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

Re: **RACER - Van Buren Landfill** Work Order: **20052072**

Dear Jason,

ALS Environmental received 41 samples on 29-May-2020 07:00 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 69.

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

Certificate No: MN 026-999-449

ALS Group, USA

Date: 09-Jun-20

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: **20052072**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
20052072-01	W-R2330026-051820-KRM-001	Water		5/18/2020 10:50	5/29/2020 07:00	☐
20052072-02	W-R2330026-051820-JPM-002	Water		5/18/2020 12:05	5/29/2020 07:00	☐
20052072-03	W-R2330026-051820-KRM-003	Water		5/18/2020 12:15	5/29/2020 07:00	☐
20052072-04	W-R2330026-051820-JPM-004	Water		5/18/2020 13:00	5/29/2020 07:00	☐
20052072-05	W-R2330026-051820-KRM-005	Water		5/18/2020 13:35	5/29/2020 07:00	☐
20052072-06	W-R2330026-051820-KRM-006	Water		5/18/2020 14:00	5/29/2020 07:00	☐
20052072-07	W-R2330026-051920-JPM-007	Water		5/19/2020 10:38	5/29/2020 07:00	☐
20052072-08	W-R2330026-051920-KRM-008	Water		5/19/2020 12:05	5/29/2020 07:00	☐
20052072-09	W-R2330026-051920-JPM-009	Water		5/19/2020 11:50	5/29/2020 07:00	☐
20052072-10	W-R2330026-051920-KRM-010	Water		5/19/2020 13:45	5/29/2020 07:00	☐
20052072-11	W-R2330026-051920-JPM-011	Water		5/19/2020 13:10	5/29/2020 07:00	☐
20052072-12	W-R2330026-051920-KRM-012	Water		5/19/2020 15:00	5/29/2020 07:00	☐
20052072-13	W-R2330026-051920-KRM-013	Water		5/19/2020 14:45	5/29/2020 07:00	☐
20052072-14	W-R2330026-052020-KRM-014	Water		5/20/2020 09:15	5/29/2020 07:00	☐
20052072-15	W-R2330026-052020-SRR-015	Water		5/20/2020 12:05	5/29/2020 07:00	☐
20052072-16	W-R2330026-052020-KRM-016	Water		5/20/2020 11:40	5/29/2020 07:00	☐
20052072-17	W-R2330026-052020-KRM-017	Water		5/20/2020 13:10	5/29/2020 07:00	☐
20052072-18	W-R2330026-052020-KRM-018	Water		5/20/2020 12:55	5/29/2020 07:00	☐
20052072-19	W-R2330026-052020-SSR-019	Water		5/20/2020 14:20	5/29/2020 07:00	☐
20052072-20	W-R2330026-052020-KRM-020	Water		5/20/2020 12:55	5/29/2020 07:00	☐
20052072-21	W-R2330026-052020-SSR-021	Water		5/20/2020 15:05	5/29/2020 07:00	☐
20052072-22	W-R2330026-052020-KRM-022	Water		5/20/2020 14:20	5/29/2020 07:00	☐
20052072-23	W-R2330026-052120-KRM-023	Water		5/21/2020 08:50	5/29/2020 07:00	☐
20052072-24	W-R2330026-052020-KRM-024	Water		5/20/2020 15:40	5/29/2020 07:00	☐
20052072-25	W-R2330026-052120-KRM-025	Water		5/21/2020 10:10	5/29/2020 07:00	☐
20052072-26	W-R2330026-052020-KRM-026	Water		5/20/2020 16:50	5/29/2020 07:00	☐
20052072-27	W-R2330026-052120-KRM-027	Water		5/21/2020 11:45	5/29/2020 07:00	☐
20052072-28	W-R2330026-052120-KRM-028	Water		5/21/2020 13:20	5/29/2020 07:00	☐
20052072-29	W-R2330026-052120-KRM-029	Water		5/21/2020 15:30	5/29/2020 07:00	☐
20052072-30	W-R2330026-052220-KRM-030	Water		5/22/2020 08:40	5/29/2020 07:00	☐
20052072-31	W-R2330026-052220-SSR-031	Water		5/22/2020 09:25	5/29/2020 07:00	☐
20052072-32	W-R2330026-052220-KRM-032	Water		5/22/2020 10:45	5/29/2020 07:00	☐
20052072-33	W-R2330026-052220-SSR-033	Water		5/22/2020 10:10	5/29/2020 07:00	☐
20052072-34	W-R2330026-052220-KRM-034	Water		5/22/2020 12:15	5/29/2020 07:00	☐
20052072-35	W-R2330076-052220-SSR-035	Water		5/22/2020 11:30	5/29/2020 07:00	☐
20052072-36	W-R2330076-052220-KRM-036	Water		5/22/2020 12:35	5/29/2020 07:00	☐
20052072-37	W-R2330076-052720-KRM-037	Water		5/27/2020 09:40	5/29/2020 07:00	☐
20052072-38	W-R2330076-052720-KRM-038	Water		5/27/2020 09:45	5/29/2020 07:00	☐
20052072-39	W-R2330076-052720-KRM-039	Water		5/27/2020 11:35	5/29/2020 07:00	☐

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: **20052072**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
20052072-40	W-R2330076-052720-KRM-040	Water		5/27/2020 12:00	5/29/2020 07:00	☐
20052072-41	Trip Blank	Water		5/27/2020	5/29/2020 07:00	☐

ALS Group, USA

Date: 09-Jun-20

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
WorkOrder: **20052072**

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

Client:	The Mannik & Smith Group, Inc.
Project:	RACER - Van Buren Landfill
Work Order:	20052072

Case Narrative

Samples for the above noted Work Order were received on 5/29/2020. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
No other deviations or anomalies were noted.

Metals:
Batch 156770, Method ICP_6020_W, Sample 20052072-01A: The concentration in the Method Blank was greater than the quantitation limit. The sample result was greater than 10x the concentration in the Method Blank; therefore, no qualification is necessary for this analyte: Al

Batch 156770, Method ICP_6020_W, Sample 20052072-02A: The concentration in the Method Blank was greater than the quantitation limit. The sample result was greater than 10x the concentration in the Method Blank; therefore, no qualification is necessary for this analyte: Al

Batch 156770, Method ICP_6020_W, Sample MBLK-156770: The concentration in the Method Blank was greater than the quantitation limit. Positive results in the batch may be biased high for this analyte: Al

Batch 156845, Method ICP_6020_W, Sample 20052072-30AMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mn

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-051820-KRM-001
Collection Date: 5/18/2020 10:50 AM

Work Order: 20052072
Lab ID: 20052072-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Iron	**40**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:04
Manganese	**1.2**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 17:04
BatchID: 156770							
Aluminum	**8.4**	B	**0.080**	**0.10**	**mg/L**	10	6/3/2020 12:13
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.039**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:14
Iron	**0.12**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:06
Manganese	**0.50**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 17:06

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-R2330026-051820-JPM-002
Collection Date: 5/18/2020 12:05 PM

Work Order: 20052072
Lab ID: 20052072-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Iron	**17**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:07
Manganese	**0.94**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 17:07
BatchID: 156770							
Aluminum	**3.5**	B	**0.080**	**0.10**	**mg/L**	10	6/3/2020 12:16
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	**0.0099**	J	**0.0080**	**0.010**	**mg/L**	1	6/3/2020 12:18
Iron	**0.059**	J	**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:09
Manganese	U		0.0025	0.0050	mg/L	1	6/2/2020 17:09

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-R2330026-051820-KRM-003
Collection Date: 5/18/2020 12:15 PM

Work Order: 20052072
Lab ID: 20052072-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.32**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:15
Iron	**1.5**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:10
Manganese	**0.018**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 17:10
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	**0.0083**	J	**0.0080**	**0.010**	**mg/L**	1	6/2/2020 17:12
Iron	**1.2**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:12
Manganese	**0.017**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 17:12

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-R2330026-051820-JPM-004
Collection Date: 5/18/2020 01:00 PM

Work Order: 20052072
Lab ID: 20052072-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.24**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:17
Iron	**0.70**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:17
Manganese	**0.32**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:25
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.11**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:22
Iron	**0.56**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:19
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:26

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-R2330026-051820-KRM-005
Collection Date: 5/18/2020 01:35 PM

Work Order: 20052072
Lab ID: 20052072-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.17**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:24
Iron	**4.7**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:20
Manganese	**0.072**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:28
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 17:22
Iron	**4.1**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:22
Manganese	**0.071**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:29

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: W-R2330026-051820-KRM-006
Collection Date: 5/18/2020 02:00 PM

Work Order: 20052072
Lab ID: 20052072-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 17:24
Iron	U		0.050	0.080	mg/L	1	6/2/2020 17:24
Manganese	U		0.0025	0.0050	mg/L	1	6/2/2020 17:24
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.016**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:25
Iron	**0.060**	J	**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:25
Manganese	U		0.0025	0.0050	mg/L	1	6/2/2020 17:25

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-R2330026-051920-JPM-007
Collection Date: 5/19/2020 10:38 AM

Work Order: 20052072
Lab ID: 20052072-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.026**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:27
Iron	**4.1**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:27
Manganese	**0.12**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:33
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 17:29
Iron	**3.5**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:29
Manganese	**0.13**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:34

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-R2330026-051920-KRM-008
Collection Date: 5/19/2020 12:05 PM

Work Order: 20052072
Lab ID: 20052072-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.016**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:29
Iron	**4.7**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:30
Manganese	**0.79**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:36
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 17:32
Iron	**4.9**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 17:32
Manganese	**0.82**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 12:38

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-R2330026-051920-JPM-009
Collection Date: 5/19/2020 11:50 AM

Work Order: 20052072
Lab ID: 20052072-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/4/20		Analyst: **STP**
BatchID: 156910							
Aluminum	**0.086**		**0.0080**	**0.010**	**mg/L**	1	6/4/2020 18:30
Iron	**0.23**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 12:39
Manganese	**0.049**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:05
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156770							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 18:07
Iron	**0.071**	J	**0.050**	**0.080**	**mg/L**	1	6/3/2020 12:47
Manganese	**0.034**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:07

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-R2330026-051920-KRM-010
Collection Date: 5/19/2020 01:45 PM

Work Order: 20052072
Lab ID: 20052072-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.033**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:20
Iron	**3.2**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:20
Manganese	**0.35**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:20
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 18:28
Iron	**2.6**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:28
Manganese	**0.35**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:28

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-R2330026-051920-JPM-011
Collection Date: 5/19/2020 01:10 PM

Work Order: 20052072
Lab ID: 20052072-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.041**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:30
Iron	**1.6**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:30
Manganese	**0.25**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:30
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.023**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:31
Iron	**1.4**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:31
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:31

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-R2330026-051920-KRM-012
Collection Date: 5/19/2020 03:00 PM

Work Order: 20052072
Lab ID: 20052072-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.026**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:33
Iron	U		0.050	0.080	mg/L	1	6/2/2020 18:33
Manganese	U		0.0025	0.0050	mg/L	1	6/2/2020 18:33
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.019**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:34
Iron	U		0.050	0.080	mg/L	1	6/2/2020 18:34
Manganese	U		0.0025	0.0050	mg/L	1	6/2/2020 18:34

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-R2330026-051920-KRM-013
Collection Date: 5/19/2020 02:45 PM

Work Order: 20052072
Lab ID: 20052072-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.65**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:36
Iron	**6.0**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:36
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:36
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 18:38
Iron	**4.2**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:38
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:38

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-R2330026-052020-KRM-014
Collection Date: 5/20/2020 09:15 AM

Work Order: 20052072
Lab ID: 20052072-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.014**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:39
Iron	**0.20**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 12:55
Manganese	**0.084**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:39
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.025**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:41
Iron	U		0.050	0.080	mg/L	1	6/2/2020 18:41
Manganese	**0.037**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:41

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-R2330026-052020-SRR-015
Collection Date: 5/20/2020 12:05 PM

Work Order: 20052072
Lab ID: 20052072-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.13**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:43
Iron	**0.20**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 12:57
Manganese	**0.023**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:43
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 18:48
Iron	U		0.050	0.080	mg/L	1	6/2/2020 18:48
Manganese	**0.021**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:48

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-R2330026-052020-KRM-016
Collection Date: 5/20/2020 11:40 AM

Work Order: 20052072
Lab ID: 20052072-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.048**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:49
Iron	**28**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:49
Manganese	**0.48**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:49
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 18:51
Iron	**28**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:51
Manganese	**0.49**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:51

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-R2330026-052020-KRM-017
Collection Date: 5/20/2020 01:10 PM

Work Order: 20052072
Lab ID: 20052072-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.13**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:53
Iron	**0.19**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 12:59
Manganese	**0.17**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:53
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.013**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:54
Iron	**0.070**	J	**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:54
Manganese	**0.094**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:54

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-R2330026-052020-KRM-018
Collection Date: 5/20/2020 12:55 PM

Work Order: 20052072
Lab ID: 20052072-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	**0.25**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 18:56
Iron	**21**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:56
Manganese	**0.66**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:56
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156769							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 18:58
Iron	**19**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 18:58
Manganese	**0.72**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 18:58

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-R2330026-052020-SSR-019
Collection Date: 5/20/2020 02:20 PM

Work Order: 20052072
Lab ID: 20052072-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.34**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:28
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:28
Manganese	**0.13**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:28
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 19:30
Iron	**7.9**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:30
Manganese	**0.087**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:30

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-R2330026-052020-KRM-020
Collection Date: 5/20/2020 12:55 PM

Work Order: 20052072
Lab ID: 20052072-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.028**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:31
Iron	**19**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:31
Manganese	**0.76**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:31
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.0087**	J	**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:33
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:33
Manganese	**0.72**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:33

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-R2330026-052020-SSR-021
Collection Date: 5/20/2020 03:05 PM

Work Order: 20052072
Lab ID: 20052072-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.17**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:35
Iron	**12**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:35
Manganese	**0.10**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:35
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 19:37
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:37
Manganese	**0.091**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:37
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **MF**
BatchID: R289834							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	6/2/2020 23:31
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	6/2/2020 23:31
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	6/2/2020 23:31
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	6/2/2020 23:31
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	6/2/2020 23:31
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	6/2/2020 23:31
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	6/2/2020 23:31
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	6/2/2020 23:31
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	6/2/2020 23:31
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	6/2/2020 23:31
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	6/2/2020 23:31
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	6/2/2020 23:31
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	6/2/2020 23:31
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	6/2/2020 23:31
2-Butanone	U		0.52	25	µg/L	1	6/2/2020 23:31
2-Hexanone	U		0.59	50	µg/L	1	6/2/2020 23:31
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	6/2/2020 23:31
Acetone	U		6.2	50	µg/L	1	6/2/2020 23:31
Benzene	**0.50**	J	**0.46**	**1.0**	**µg/L**	1	6/2/2020 23:31
Bromodichloromethane	U		0.49	1.0	µg/L	1	6/2/2020 23:31
Bromoform	U		0.56	1.0	µg/L	1	6/2/2020 23:31
Bromomethane	U		0.90	5.0	µg/L	1	6/2/2020 23:31
Carbon disulfide	U		0.49	5.0	µg/L	1	6/2/2020 23:31
Carbon tetrachloride	U		0.40	1.0	µg/L	1	6/2/2020 23:31
Chlorobenzene	**20**		**0.40**	**1.0**	**µg/L**	1	6/2/2020 23:31
Chloroethane	U		0.68	5.0	µg/L	1	6/2/2020 23:31

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-R2330026-052020-SSR-021
Collection Date: 5/20/2020 03:05 PM

Work Order: 20052072
Lab ID: 20052072-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	6/2/2020 23:31
Chloromethane	U		0.83	5.0	µg/L	1	6/2/2020 23:31
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	6/2/2020 23:31
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	6/2/2020 23:31
Cyclohexane	U		0.63	1.0	µg/L	1	6/2/2020 23:31
Dibromochloromethane	U		0.40	5.0	µg/L	1	6/2/2020 23:31
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	6/2/2020 23:31
Ethylbenzene	U		0.34	1.0	µg/L	1	6/2/2020 23:31
Isopropylbenzene	U		0.35	5.0	µg/L	1	6/2/2020 23:31
Methyl acetate	U		0.59	10	µg/L	1	6/2/2020 23:31
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	6/2/2020 23:31
Methylcyclohexane	U		0.35	1.0	µg/L	1	6/2/2020 23:31
Methylene chloride	U		0.86	5.0	µg/L	1	6/2/2020 23:31
Styrene	U		0.33	1.0	µg/L	1	6/2/2020 23:31
Tetrachloroethene	U		0.39	1.0	µg/L	1	6/2/2020 23:31
Toluene	U		0.45	1.0	µg/L	1	6/2/2020 23:31
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	6/2/2020 23:31
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	6/2/2020 23:31
Trichloroethene	U		0.43	1.0	µg/L	1	6/2/2020 23:31
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	6/2/2020 23:31
Vinyl chloride	U		0.53	1.0	µg/L	1	6/2/2020 23:31
Xylenes, Total	U		0.81	3.0	µg/L	1	6/2/2020 23:31
Surr: 1,2-Dichloroethane-d4	*107*			*75-120*	*%REC*	1	6/2/2020 23:31
Surr: 4-Bromofluorobenzene	*94.2*			*80-110*	*%REC*	1	6/2/2020 23:31
Surr: Dibromofluoromethane	*104*			*85-115*	*%REC*	1	6/2/2020 23:31
Surr: Toluene-d8	*102*			*85-110*	*%REC*	1	6/2/2020 23:31

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

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-052020-KRM-022
Collection Date: 5/20/2020 02:20 PM

Work Order: 20052072
Lab ID: 20052072-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 19:38
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:38
Manganese	**0.86**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:38
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 19:40
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:40
Manganese	**0.86**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:40

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-R2330026-052120-KRM-023
Collection Date: 5/21/2020 08:50 AM

Work Order: 20052072
Lab ID: 20052072-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.047**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:42
Iron	**7.9**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:42
Manganese	**0.54**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:42
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.0088**	J	**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:44
Iron	**7.2**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:44
Manganese	**0.54**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:44

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-R2330026-052020-KRM-024
Collection Date: 5/20/2020 03:40 PM

Work Order: 20052072
Lab ID: 20052072-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	**0.038**		**0.0080**	**0.010**	**mg/L**	1	6/2/2020 19:49
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:49
Manganese	**0.45**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:49
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/2/20		Analyst: **STP**
BatchID: 156768							
Aluminum	U		0.0080	0.010	mg/L	1	6/2/2020 19:50
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	6/2/2020 19:50
Manganese	**0.49**		**0.0025**	**0.0050**	**mg/L**	1	6/2/2020 19:50

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-R2330026-052120-KRM-025
Collection Date: 5/21/2020 10:10 AM

Work Order: 20052072
Lab ID: 20052072-25
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.033**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 15:42
Iron	**4.1**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 15:42
Manganese	**0.089**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:42
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 15:44
Iron	**6.3**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 15:44
Manganese	**0.084**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:44

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-R2330026-052020-KRM-026
Collection Date: 5/20/2020 04:50 PM

Work Order: 20052072
Lab ID: 20052072-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 15:45
Iron	U		0.050	0.080	mg/L	1	6/3/2020 15:45
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 15:45
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 15:47
Iron	U		0.050	0.080	mg/L	1	6/3/2020 15:47
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 15:47

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-R2330026-052120-KRM-027
Collection Date: 5/21/2020 11:45 AM

Work Order: 20052072
Lab ID: 20052072-27
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 15:52
Iron	**5.8**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 15:52
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:52
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.013**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 15:53
Iron	**6.0**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 15:53
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:53

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

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-052120-KRM-028
Collection Date: 5/21/2020 01:20 PM

Work Order: 20052072
Lab ID: 20052072-28
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.060**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 15:55
Iron	**0.50**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 15:55
Manganese	**0.14**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:55
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 15:57
Iron	**0.16**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 15:57
Manganese	**0.057**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:57

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-R2330026-052120-KRM-029
Collection Date: 5/21/2020 03:30 PM

Work Order: 20052072
Lab ID: 20052072-29
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 15:58
Iron	U		0.050	0.080	mg/L	1	6/3/2020 15:58
Manganese	**0.0030**	J	**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 15:58
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.0085**	J	**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:00
Iron	U		0.050	0.080	mg/L	1	6/3/2020 16:00
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 16:00

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-R2330026-052220-KRM-030
Collection Date: 5/22/2020 08:40 AM

Work Order: 20052072
Lab ID: 20052072-30
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.054**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:01
Iron	**0.84**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:01
Manganese	**1.5**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:01
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:07
Iron	**0.67**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:07
Manganese	**1.5**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:07

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-R2330026-052220-SSR-031
Collection Date: 5/22/2020 09:25 AM

Work Order: 20052072
Lab ID: 20052072-31
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Iron	**16**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:11
Manganese	**0.67**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:11
BatchID: 156845							
Aluminum	**2.7**		**0.080**	**0.10**	**mg/L**	10	6/3/2020 18:39
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.058**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:13
Iron	**6.7**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:13
Manganese	**0.25**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:13

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

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-052220-KRM-032
Collection Date: 5/22/2020 10:45 AM

Work Order: 20052072
Lab ID: 20052072-32
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.15**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:15
Iron	**5.3**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:15
Manganese	**0.099**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:15
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:16
Iron	**5.4**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:16
Manganese	**0.10**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:16

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-R2330026-052220-SSR-033
Collection Date: 5/22/2020 10:10 AM

Work Order: 20052072
Lab ID: 20052072-33
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:18
Manganese	**0.53**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:18
BatchID: 156845							
Aluminum	**2.7**		**0.080**	**0.10**	**mg/L**	10	6/3/2020 18:41
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	**0.094**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:20
Iron	**2.8**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:20
Manganese	**0.39**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:20

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-R2330026-052220-KRM-034
Collection Date: 5/22/2020 12:15 PM

Work Order: 20052072
Lab ID: 20052072-34
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156845							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:22
Iron	**26**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:22
Manganese	**0.26**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:22
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:31
Iron	**25**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:31
Manganese	**0.25**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:31

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-R2330076-052220-SSR-035
Collection Date: 5/22/2020 11:30 AM

Work Order: 20052072
Lab ID: 20052072-35
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	**1.5**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:33
Iron	**3.5**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:33
BatchID: 156846							
Manganese	**2.6**		**0.025**	**0.050**	**mg/L**	10	6/3/2020 18:42
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:35
Iron	U		0.050	0.080	mg/L	1	6/3/2020 16:35
Manganese	**0.17**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:35

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-R2330076-052220-KRM-036
Collection Date: 5/22/2020 12:35 PM

Work Order: 20052072
Lab ID: 20052072-36
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:36
Iron	U		0.050	0.080	mg/L	1	6/3/2020 16:36
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 16:36
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:38
Iron	U		0.050	0.080	mg/L	1	6/3/2020 16:38
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 16:38

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-R2330076-052720-KRM-037
Collection Date: 5/27/2020 09:40 AM

Work Order: 20052072
Lab ID: 20052072-37
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	**0.017**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:40
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:40
Manganese	**0.23**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:40
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:45
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:45
Manganese	**0.23**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:45

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

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330076-052720-KRM-038
Collection Date: 5/27/2020 09:45 AM

Work Order: 20052072
Lab ID: 20052072-38
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	**0.019**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:47
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:47
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:47
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:52
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:52
Manganese	**0.22**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:52

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

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330076-052720-KRM-039
Collection Date: 5/27/2020 11:35 AM

Work Order: 20052072
Lab ID: 20052072-39
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	**0.027**		**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:53
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:53
Manganese	**0.52**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:53
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	**0.0091**	J	**0.0080**	**0.010**	**mg/L**	1	6/3/2020 16:55
Iron	**17**		**0.050**	**0.080**	**mg/L**	1	6/3/2020 16:55
Manganese	**0.53**		**0.0025**	**0.0050**	**mg/L**	1	6/3/2020 16:55
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **MF**
BatchID: R289834							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	6/2/2020 23:15
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	6/2/2020 23:15
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	6/2/2020 23:15
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	6/2/2020 23:15
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	6/2/2020 23:15
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	6/2/2020 23:15
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	6/2/2020 23:15
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	6/2/2020 23:15
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	6/2/2020 23:15
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	6/2/2020 23:15
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	6/2/2020 23:15
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	6/2/2020 23:15
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	6/2/2020 23:15
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	6/2/2020 23:15
2-Butanone	U		0.52	25	µg/L	1	6/2/2020 23:15
2-Hexanone	U		0.59	50	µg/L	1	6/2/2020 23:15
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	6/2/2020 23:15
Acetone	U		6.2	50	µg/L	1	6/2/2020 23:15
Benzene	**2.7**		**0.46**	**1.0**	**µg/L**	1	6/2/2020 23:15
Bromodichloromethane	U		0.49	1.0	µg/L	1	6/2/2020 23:15
Bromoform	U		0.56	1.0	µg/L	1	6/2/2020 23:15
Bromomethane	U		0.90	5.0	µg/L	1	6/2/2020 23:15
Carbon disulfide	U		0.49	5.0	µg/L	1	6/2/2020 23:15
Carbon tetrachloride	U		0.40	1.0	µg/L	1	6/2/2020 23:15
Chlorobenzene	**25**		**0.40**	**1.0**	**µg/L**	1	6/2/2020 23:15
Chloroethane	U		0.68	5.0	µg/L	1	6/2/2020 23:15

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-R2330076-052720-KRM-039
Collection Date: 5/27/2020 11:35 AM

Work Order: 20052072
Lab ID: 20052072-39
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	6/2/2020 23:15
Chloromethane	U		0.83	5.0	µg/L	1	6/2/2020 23:15
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	6/2/2020 23:15
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	6/2/2020 23:15
Cyclohexane	U		0.63	1.0	µg/L	1	6/2/2020 23:15
Dibromochloromethane	U		0.40	5.0	µg/L	1	6/2/2020 23:15
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	6/2/2020 23:15
Ethylbenzene	U		0.34	1.0	µg/L	1	6/2/2020 23:15
Isopropylbenzene	U		0.35	5.0	µg/L	1	6/2/2020 23:15
Methyl acetate	U		0.59	10	µg/L	1	6/2/2020 23:15
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	6/2/2020 23:15
Methylcyclohexane	U		0.35	1.0	µg/L	1	6/2/2020 23:15
Methylene chloride	U		0.86	5.0	µg/L	1	6/2/2020 23:15
Styrene	U		0.33	1.0	µg/L	1	6/2/2020 23:15
Tetrachloroethene	U		0.39	1.0	µg/L	1	6/2/2020 23:15
Toluene	U		0.45	1.0	µg/L	1	6/2/2020 23:15
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	6/2/2020 23:15
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	6/2/2020 23:15
Trichloroethene	U		0.43	1.0	µg/L	1	6/2/2020 23:15
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	6/2/2020 23:15
Vinyl chloride	U		0.53	1.0	µg/L	1	6/2/2020 23:15
Xylenes, Total	U		0.81	3.0	µg/L	1	6/2/2020 23:15
Surr: 1,2-Dichloroethane-d4	*106*			*75-120*	*%REC*	1	6/2/2020 23:15
Surr: 4-Bromofluorobenzene	*92.1*			*80-110*	*%REC*	1	6/2/2020 23:15
Surr: Dibromofluoromethane	*103*			*85-115*	*%REC*	1	6/2/2020 23:15
Surr: Toluene-d8	*102*			*85-110*	*%REC*	1	6/2/2020 23:15

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-R2330076-052720-KRM-040
Collection Date: 5/27/2020 12:00 PM

Work Order: 20052072
Lab ID: 20052072-40
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:57
Iron	U		0.050	0.080	mg/L	1	6/3/2020 16:57
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 16:57
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 6/3/20		Analyst: **STP**
BatchID: 156846							
Aluminum	U		0.0080	0.010	mg/L	1	6/3/2020 16:58
Iron	U		0.050	0.080	mg/L	1	6/3/2020 16:58
Manganese	U		0.0025	0.0050	mg/L	1	6/3/2020 16:58

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

ALS Group, USA

Date: *09-Jun-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: Trip Blank
Collection Date: 5/27/2020

Work Order: 20052072
Lab ID: 20052072-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **MF**
BatchID: R289834							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	6/2/2020 22:09
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	6/2/2020 22:09
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	6/2/2020 22:09
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	6/2/2020 22:09
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	6/2/2020 22:09
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	6/2/2020 22:09
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	6/2/2020 22:09
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	6/2/2020 22:09
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	6/2/2020 22:09
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	6/2/2020 22:09
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	6/2/2020 22:09
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	6/2/2020 22:09
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	6/2/2020 22:09
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	6/2/2020 22:09
2-Butanone	U		0.52	25	µg/L	1	6/2/2020 22:09
2-Hexanone	U		0.59	50	µg/L	1	6/2/2020 22:09
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	6/2/2020 22:09
Acetone	U		6.2	50	µg/L	1	6/2/2020 22:09
Benzene	U		0.46	1.0	µg/L	1	6/2/2020 22:09
Bromodichloromethane	U		0.49	1.0	µg/L	1	6/2/2020 22:09
Bromoform	U		0.56	1.0	µg/L	1	6/2/2020 22:09
Bromomethane	U		0.90	5.0	µg/L	1	6/2/2020 22:09
Carbon disulfide	U		0.49	5.0	µg/L	1	6/2/2020 22:09
Carbon tetrachloride	U		0.40	1.0	µg/L	1	6/2/2020 22:09
Chlorobenzene	U		0.40	1.0	µg/L	1	6/2/2020 22:09
Chloroethane	U		0.68	5.0	µg/L	1	6/2/2020 22:09
Chloroform	U		0.46	1.0	µg/L	1	6/2/2020 22:09
Chloromethane	U		0.83	5.0	µg/L	1	6/2/2020 22:09
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	6/2/2020 22:09
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	6/2/2020 22:09
Cyclohexane	U		0.63	1.0	µg/L	1	6/2/2020 22:09
Dibromochloromethane	U		0.40	5.0	µg/L	1	6/2/2020 22:09
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	6/2/2020 22:09
Ethylbenzene	U		0.34	1.0	µg/L	1	6/2/2020 22:09
Isopropylbenzene	U		0.35	5.0	µg/L	1	6/2/2020 22:09
Methyl acetate	U		0.59	10	µg/L	1	6/2/2020 22:09
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	6/2/2020 22:09

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: 5/27/2020

Work Order: 20052072
Lab ID: 20052072-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.35	1.0	µg/L	1	6/2/2020 22:09
Methylene chloride	U		0.86	5.0	µg/L	1	6/2/2020 22:09
Styrene	U		0.33	1.0	µg/L	1	6/2/2020 22:09
Tetrachloroethene	U		0.39	1.0	µg/L	1	6/2/2020 22:09
Toluene	U		0.45	1.0	µg/L	1	6/2/2020 22:09
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	6/2/2020 22:09
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	6/2/2020 22:09
Trichloroethene	U		0.43	1.0	µg/L	1	6/2/2020 22:09
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	6/2/2020 22:09
Vinyl chloride	U		0.53	1.0	µg/L	1	6/2/2020 22:09
Xylenes, Total	U		0.81	3.0	µg/L	1	6/2/2020 22:09
Surr: 1,2-Dichloroethane-d4	*105*			*75-120*	*%REC*	1	6/2/2020 22:09
Surr: 4-Bromofluorobenzene	*92.4*			*80-110*	*%REC*	1	6/2/2020 22:09
Surr: Dibromofluoromethane	*102*			*85-115*	*%REC*	1	6/2/2020 22:09
Surr: Toluene-d8	*99.2*			*85-110*	*%REC*	1	6/2/2020 22:09

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

QC BATCH REPORT

Batch ID: **156768** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-156768-156768** Units: **mg/L** Analysis Date: **6/2/2020 07:01 PM**

Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454593** Prep Date: **6/2/2020** 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-156768-156768** Units: **mg/L** Analysis Date: **6/2/2020 07:03 PM**

Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454594** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1065	0.010	0.1	0	106	80-120	0			
Iron	10.86	0.080	10	0	109	80-120	0			
Manganese	0.1098	0.0050	0.1	0	110	80-120	0			

MS Sample ID: **20051876-01EMS** Units: **mg/L** Analysis Date: **6/2/2020 07:09 PM**

Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454598** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1481	0.010	0.1	0.09556	52.5	75-125	0			S
Iron	11.03	0.080	10	0.1926	108	75-125	0			
Manganese	0.1225	0.0050	0.1	0.01139	111	75-125	0			

MSD Sample ID: **20051876-01EMSD** Units: **mg/L** Analysis Date: **6/2/2020 07:11 PM**

Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454599** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1422	0.010	0.1	0.09556	46.7	75-125	0.1481	4.02	20	S
Iron	10.99	0.080	10	0.1926	108	75-125	11.03	0.414	20	
Manganese	0.1231	0.0050	0.1	0.01139	112	75-125	0.1225	0.496	20	

The following samples were analyzed in this batch:

20052072-19A	20052072-19B	20052072-20A
20052072-20B	20052072-21A	20052072-21B
20052072-22A	20052072-22B	20052072-23A
20052072-23B	20052072-24A	20052072-24B

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **156769** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-156769-156769** Units: **mg/L** Analysis Date: **6/2/2020 06:10 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454562** Prep Date: **6/2/2020** 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-156769-156769** Units: **mg/L** Analysis Date: **6/2/2020 06:11 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454563** Prep Date: **6/2/2020** 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	102	80-120	0			
Iron	10.39	0.080	10	0	104	80-120	0			
Manganese	0.104	0.0050	0.1	0	104	80-120	0			

MS Sample ID: **20052030-08DMS** Units: **mg/L** Analysis Date: **6/2/2020 06:15 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454565** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.159	0.010	0.1	0.04538	114	75-125	0			
Iron	11.4	0.080	10	1.157	102	75-125	0			
Manganese	0.1282	0.0050	0.1	0.02633	102	75-125	0			

MSD Sample ID: **20052030-08DMSD** Units: **mg/L** Analysis Date: **6/2/2020 06:16 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454566** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1607	0.010	0.1	0.04538	115	75-125	0.159	1.11	20	
Iron	11.31	0.080	10	1.157	102	75-125	11.4	0.801	20	
Manganese	0.1283	0.0050	0.1	0.02633	102	75-125	0.1282	0.0678	20	

The following samples were analyzed in this batch:

20052072-10A	20052072-10B	20052072-11A
20052072-11B	20052072-12A	20052072-12B
20052072-13A	20052072-13B	20052072-14A
20052072-14B	20052072-15A	20052072-15B
20052072-16A	20052072-16B	20052072-17A
20052072-17B	20052072-18A	20052072-18B

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **156770** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-156770-156770** Units: **mg/L** Analysis Date: **6/2/2020 04:51 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454514** Prep Date: **6/2/2020** DF: **1**

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

MBLK Sample ID: **MBLK-156770-156770** Units: **mg/L** Analysis Date: **6/3/2020 12:07 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6455902** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.02791	0.010								

LCS Sample ID: **LCS-156770-156770** Units: **mg/L** Analysis Date: **6/2/2020 04:52 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454515** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.65	0.080	10	0	106	80-120	0			
Manganese	0.1095	0.0050	0.1	0	110	80-120	0			

LCS Sample ID: **LCS-156770-156770** Units: **mg/L** Analysis Date: **6/3/2020 12:08 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6455903** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09973	0.010	0.1	0	99.7	80-120	0			B

MS Sample ID: **20052030-10DMS** Units: **mg/L** Analysis Date: **6/2/2020 04:59 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454519** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	13.55	0.080	10	3.011	105	75-125	0			
Manganese	1.312	0.0050	0.1	1.228	83.6	75-125	0			O

MS Sample ID: **20052030-10DMS** Units: **mg/L** Analysis Date: **6/3/2020 12:10 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6455904** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1426	0.010	0.1	0.03055	112	75-125	0			B

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

QC BATCH REPORT

Batch ID: **156770** Instrument ID **ICPMS3** Method: **SW6020B**

MSD Sample ID: **20052030-10DMSD** Units: **mg/L** Analysis Date: **6/2/2020 05:01 PM**
Client ID: Run ID: **ICPMS3_200602A** SeqNo: **6454520** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	13.75	0.080	10	3.011	107	75-125	13.55	1.46	20	
Manganese	1.32	0.0050	0.1	1.228	92.2	75-125	1.312	0.656	20	O

MSD Sample ID: **20052030-10DMSD** Units: **mg/L** Analysis Date: **6/3/2020 12:12 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6455905** Prep Date: **6/2/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1445	0.010	0.1	0.03055	114	75-125	0.1426	1.3	20	B

The following samples were analyzed in this batch:

20052072-01A	20052072-01B	20052072-02A
20052072-02B	20052072-03A	20052072-03B
20052072-04A	20052072-04B	20052072-05A
20052072-05B	20052072-06A	20052072-06B
20052072-07A	20052072-07B	20052072-08A
20052072-08B	20052072-09A	20052072-09B

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **156845** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-156845-156845** Units: **mg/L** Analysis Date: **6/3/2020 03:37 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6456331** Prep Date: **6/3/2020** 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-156845-156845** Units: **mg/L** Analysis Date: **6/3/2020 03:39 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6456332** Prep Date: **6/3/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1036	0.010	0.1	0	104	80-120	0			
Iron	10.22	0.080	10	0	102	80-120	0			
Manganese	0.1029	0.0050	0.1	0	103	80-120	0			

MS Sample ID: **20052072-30AMS** Units: **mg/L** Analysis Date: **6/3/2020 04:03 PM**
Client ID: **W-R2330026-052220-KRM-030** Run ID: **ICPMS3_200603A** SeqNo: **6456495** Prep Date: **6/3/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1533	0.010	0.1	0.05355	99.8	75-125	0			
Iron	11.13	0.080	10	0.8388	103	75-125	0			
Manganese	1.581	0.0050	0.1	1.479	102	75-125	0			O

MSD Sample ID: **20052072-30AMSD** Units: **mg/L** Analysis Date: **6/3/2020 04:05 PM**
Client ID: **W-R2330026-052220-KRM-030** Run ID: **ICPMS3_200603A** SeqNo: **6456496** Prep Date: **6/3/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1519	0.010	0.1	0.05355	98.4	75-125	0.1533	0.915	20	
Iron	10.94	0.080	10	0.8388	101	75-125	11.13	1.69	20	
Manganese	1.534	0.0050	0.1	1.479	55	75-125	1.581	3	20	SO

The following samples were analyzed in this batch:

20052072-25A	20052072-25B	20052072-26A
20052072-26B	20052072-27A	20052072-27B
20052072-28A	20052072-28B	20052072-29A
20052072-29B	20052072-30A	20052072-30B
20052072-31A	20052072-31B	20052072-32A
20052072-32B	20052072-33A	20052072-33B
20052072-34A		

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **156846** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-156846-156846** Units: **mg/L** Analysis Date: **6/3/2020 04:25 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6456508** Prep Date: **6/3/2020** 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-156846-156846** Units: **mg/L** Analysis Date: **6/3/2020 04:26 PM**
Client ID: Run ID: **ICPMS3_200603A** SeqNo: **6456509** Prep Date: **6/3/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09978	0.010	0.1	0	99.8	80-120	0			
Iron	9.9	0.080	10	0	99	80-120	0			
Manganese	0.1006	0.0050	0.1	0	101	80-120	0			

MS Sample ID: **20052072-37AMS** Units: **mg/L** Analysis Date: **6/3/2020 04:41 PM**
Client ID: **W-R2330076-052720-KRM-037** Run ID: **ICPMS3_200603A** SeqNo: **6456518** Prep Date: **6/3/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1182	0.010	0.1	0.01658	102	75-125	0			
Iron	23.87	0.080	10	14.2	96.8	75-125	0			
Manganese	0.3345	0.0050	0.1	0.2341	100	75-125	0			

MSD Sample ID: **20052072-37AMSD** Units: **mg/L** Analysis Date: **6/3/2020 04:43 PM**
Client ID: **W-R2330076-052720-KRM-037** Run ID: **ICPMS3_200603A** SeqNo: **6456519** Prep Date: **6/3/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1198	0.010	0.1	0.01658	103	75-125	0.1182	1.37	20	
Iron	23.67	0.080	10	14.2	94.8	75-125	23.87	0.83	20	
Manganese	0.3291	0.0050	0.1	0.2341	95	75-125	0.3345	1.61	20	

The following samples were analyzed in this batch:

20052072-34B	20052072-35A	20052072-35B
20052072-36A	20052072-36B	20052072-37A
20052072-37B	20052072-38A	20052072-38B
20052072-39A	20052072-39B	20052072-40A
20052072-40B		

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **156910** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-156910-156910** Units: **mg/L** Analysis Date: **6/4/2020 06:10 PM**
Client ID: Run ID: **ICPMS3_200604A** SeqNo: **6460155** Prep Date: **6/4/2020** 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-156910-156910** Units: **mg/L** Analysis Date: **6/4/2020 06:12 PM**
Client ID: Run ID: **ICPMS3_200604A** SeqNo: **6460156** Prep Date: **6/4/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.010	0.1	0	107	80-120	0			
Iron	10.59	0.080	10	0	106	80-120	0			
Manganese	0.104	0.0050	0.1	0	104	80-120	0			

MS Sample ID: **20060180-02BMS** Units: **mg/L** Analysis Date: **6/4/2020 06:36 PM**
Client ID: Run ID: **ICPMS3_200604A** SeqNo: **6460170** Prep Date: **6/4/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1122	0.010	0.1	0.008091	104	75-125	0			
Iron	13.72	0.080	10	3.44	103	75-125	0			
Manganese	0.1852	0.0050	0.1	0.08905	96.1	75-125	0			

MSD Sample ID: **20060180-02BMSD** Units: **mg/L** Analysis Date: **6/4/2020 06:38 PM**
Client ID: Run ID: **ICPMS3_200604A** SeqNo: **6460171** Prep Date: **6/4/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1165	0.010	0.1	0.008091	108	75-125	0.1122	3.79	20	
Iron	13.5	0.080	10	3.44	101	75-125	13.72	1.56	20	
Manganese	0.1884	0.0050	0.1	0.08905	99.4	75-125	0.1852	1.74	20	

The following samples were analyzed in this batch:

20052072-01B	20052072-03A	20052072-04A
20052072-04B	20052072-05A	20052072-06B
20052072-07A	20052072-08A	20052072-09A

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-200602-R289834A** Units: **µg/L** Analysis Date: **6/2/2020 09:03 PM**
Client ID: Run ID: **VMS8_200602B** SeqNo: **6455432** 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: **R289834A** Instrument ID **VMS8** 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	*20.6*	0	*20*	0	*103*	*75-120*	0
Surr: 4-Bromofluorobenzene	*18.98*	0	*20*	0	*94.9*	*80-110*	0
Surr: Dibromofluoromethane	*20.03*	0	*20*	0	*100*	*85-115*	0
Surr: Toluene-d8	*20.45*	0	*20*	0	*102*	*85-110*	0

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

LCS	Sample ID: **VLCSW2-200602-R289834A**				Units: **µg/L**			Analysis Date: **6/2/2020 08:13 PM**			
Client ID:		Run ID: **VMS8_200602B**			SeqNo: **6455431**		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	20.54	1.0	20	0	103	75-130	0			
1,1,2,2-Tetrachloroethane	21.73	1.0	20	0	109	75-130	0			
1,1,2-Trichloroethane	21.31	1.0	20	0	107	75-125	0			
1,1-Dichloroethane	21.53	1.0	20	0	108	68-142	0			
1,1-Dichloroethene	24.22	1.0	20	0	121	70-145	0			
1,2,4-Trichlorobenzene	18.16	1.0	20	0	90.8	70-135	0			
1,2-Dibromo-3-chloropropane	17.97	1.0	20	0	89.8	60-130	0			
1,2-Dibromoethane	21.26	1.0	20	0	106	67-155	0			
1,2-Dichlorobenzene	20.43	1.0	20	0	102	70-130	0			
1,2-Dichloroethane	20.66	1.0	20	0	103	78-125	0			
1,2-Dichloropropane	20.83	1.0	20	0	104	75-125	0			
1,3-Dichlorobenzene	20.11	1.0	20	0	101	75-130	0			
1,4-Dichlorobenzene	20.11	1.0	20	0	101	75-130	0			
2-Butanone	19.36	5.0	20	0	96.8	55-150	0			
2-Hexanone	20.36	5.0	20	0	102	60-135	0			
4-Methyl-2-pentanone	29.5	1.0	20	0	148	77-178	0			
Acetone	20.78	10	20	0	104	60-160	0			
Benzene	20.12	1.0	20	0	101	70-130	0			
Bromodichloromethane	21.28	1.0	20	0	106	75-125	0			
Bromoform	18.05	1.0	20	0	90.2	60-125	0			
Bromomethane	21.09	1.0	20	0	105	30-185	0			
Carbon disulfide	22.71	1.0	20	0	114	60-165	0			
Carbon tetrachloride	18.56	1.0	20	0	92.8	65-140	0			
Chlorobenzene	20.31	1.0	20	0	102	80-120	0			
Chloroethane	13.7	1.0	20	0	68.5	31-172	0			
Chloroform	22.07	1.0	20	0	110	66-135	0			
Chloromethane	18.9	1.0	20	0	94.5	46-148	0			
cis-1,2-Dichloroethene	21.57	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	19.37	1.0	20	0	96.8	70-130	0			
Dibromochloromethane	17.9	1.0	20	0	89.5	60-115	0			
Dichlorodifluoromethane	18.42	1.0	20	0	92.1	20-120	0			
Ethylbenzene	21	1.0	20	0	105	76-123	0			
Isopropylbenzene	18.84	1.0	20	0	94.2	80-127	0			
Methyl tert-butyl ether	20.31	1.0	20	0	102	68-129	0			
Methylene chloride	21.6	5.0	20	0	108	72-125	0			
Styrene	20.24	1.0	20	0	101	83-137	0			
Tetrachloroethene	20.9	1.0	20	0	104	68-166	0			
Toluene	21	1.0	20	0	105	76-125	0			
trans-1,2-Dichloroethene	23.18	1.0	20	0	116	80-140	0			
trans-1,3-Dichloropropene	20.39	1.0	20	0	102	56-132	0			
Trichloroethene	20.67	1.0	20	0	103	77-125	0			
Trichlorofluoromethane	20.85	1.0	20	0	104	60-140	0			

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

QC BATCH REPORT

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

Vinyl chloride	20.58	1.0	20	0	103	50-136	0
Xylenes, Total	64.06	3.0	60	0	107	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.72*	0	*20*	0	*98.6*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.48*	0	*20*	0	*97.4*	*80-110*	0
Surr: Dibromofluoromethane	*20.32*	0	*20*	0	*102*	*85-115*	0
Surr: Toluene-d8	*19.85*	0	*20*	0	*99.2*	*85-110*	0

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **20052113-04A MS** Units: **µg/L** Analysis Date: **6/3/2020 03:03 AM**

Client ID: Run ID: **VMS8_200602B** SeqNo: **6455439** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	388.2	20	400	0	97	75-130	0			
1,1,2,2-Tetrachloroethane	379.8	20	400	0	95	75-130	0			
1,1,2-Trichloroethane	385	20	400	37.4	86.9	75-125	0			
1,1-Dichloroethane	422.2	20	400	0	106	68-142	0			
1,1-Dichloroethene	481.8	20	400	0	120	70-145	0			
1,2,4-Trichlorobenzene	286.4	20	400	0	71.6	70-135	0			
1,2-Dibromo-3-chloropropane	304	20	400	0	76	60-130	0			
1,2-Dibromoethane	387.4	20	400	0	96.8	67-155	0			
1,2-Dichlorobenzene	374.8	20	400	0	93.7	70-130	0			
1,2-Dichloroethane	394.6	20	400	0	98.6	78-125	0			
1,2-Dichloropropane	393.8	20	400	14	95	75-125	0			
1,3-Dichlorobenzene	372.4	20	400	0	93.1	75-130	0			
1,4-Dichlorobenzene	372.4	20	400	0	93.1	75-130	0			
2-Butanone	389.4	100	400	0	97.4	55-150	0			
2-Hexanone	375.8	100	400	0	94	60-135	0			
4-Methyl-2-pentanone	549.8	20	400	0	137	77-178	0			
Acetone	421.8	200	400	45	94.2	60-160	0			
Benzene	768.6	20	400	396.2	93.1	70-130	0			
Bromodichloromethane	386.8	20	400	0	96.7	75-125	0			
Bromoform	313.4	20	400	0	78.4	60-125	0			
Bromomethane	1653	20	400	20.8	408	30-185	0			S
Carbon disulfide	416.2	20	400	0	104	60-165	0			
Carbon tetrachloride	325	20	400	41.8	70.8	65-140	0			
Chlorobenzene	373	20	400	0	93.2	80-120	0			
Chloroethane	464.6	20	400	0	116	31-172	0			
Chloroform	400.6	20	400	0	100	66-135	0			
Chloromethane	359.4	20	400	0	89.8	46-148	0			
cis-1,2-Dichloroethene	406.8	20	400	0	102	75-134	0			
cis-1,3-Dichloropropene	344.6	20	400	0	86.2	70-130	0			
Dibromochloromethane	315.4	20	400	0	78.8	60-115	0			
Dichlorodifluoromethane	353.8	20	400	0	88.4	20-120	0			
Ethylbenzene	476.4	20	400	97.4	94.8	76-123	0			
Isopropylbenzene	357.2	20	400	0	89.3	80-127	0			
Methyl tert-butyl ether	364.8	20	400	0	91.2	68-129	0			
Methylene chloride	410.2	100	400	0	103	72-125	0			
Styrene	377	20	400	0	94.2	83-137	0			
Tetrachloroethene	391.6	20	400	0	97.9	68-166	0			
Toluene	389	20	400	0	97.2	76-125	0			
trans-1,2-Dichloroethene	430.4	20	400	0	108	80-140	0			
trans-1,3-Dichloropropene	356.8	20	400	0	89.2	56-132	0			
Trichloroethene	401.6	20	400	0	100	77-125	0			
Trichlorofluoromethane	272.8	20	400	0	68.2	60-140	0			

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

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

Vinyl chloride	422.4	20	400	0	106	50-136	0
Xylenes, Total	2437	60	1200	1377	88.3	76-127	0
Surr: 1,2-Dichloroethane-d4	*414.6*	0	*400*	0	*104*	*75-120*	0
Surr: 4-Bromofluorobenzene	*402*	0	*400*	0	*100*	*80-110*	0
Surr: Dibromofluoromethane	*405.4*	0	*400*	0	*101*	*85-115*	0
Surr: Toluene-d8	*401.4*	0	*400*	0	*100*	*85-110*	0

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

MSD Sample ID: **20052113-04A MSD** Units: **µg/L** Analysis Date: **6/3/2020 03:20 AM**

Client ID: Run ID: **VMS8_200602B** SeqNo: **6455440** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	434	20	400	0	108	75-130	388.2	11.1	30	
1,1,2,2-Tetrachloroethane	419.6	20	400	0	105	75-130	379.8	9.96	30	
1,1,2-Trichloroethane	434.4	20	400	37.4	99.2	75-125	385	12.1	30	
1,1-Dichloroethane	478.4	20	400	0	120	68-142	422.2	12.5	30	
1,1-Dichloroethene	555.2	20	400	0	139	70-145	481.8	14.2	30	
1,2,4-Trichlorobenzene	314	20	400	0	78.5	70-135	286.4	9.19	30	
1,2-Dibromo-3-chloropropane	329	20	400	0	82.2	60-130	304	7.9	30	
1,2-Dibromoethane	429	20	400	0	107	67-155	387.4	10.2	30	
1,2-Dichlorobenzene	410.2	20	400	0	103	70-130	374.8	9.02	30	
1,2-Dichloroethane	441.4	20	400	0	110	78-125	394.6	11.2	30	
1,2-Dichloropropane	437.4	20	400	14	106	75-125	393.8	10.5	30	
1,3-Dichlorobenzene	410.8	20	400	0	103	75-130	372.4	9.81	30	
1,4-Dichlorobenzene	410.8	20	400	0	103	75-130	372.4	9.81	30	
2-Butanone	434.8	100	400	0	109	55-150	389.4	11	30	
2-Hexanone	411.8	100	400	0	103	60-135	375.8	9.14	30	
4-Methyl-2-pentanone	629.8	20	400	0	157	77-178	549.8	13.6	30	
Acetone	509.2	200	400	45	116	60-160	421.8	18.8	30	
Benzene	843.2	20	400	396.2	112	70-130	768.6	9.26	30	
Bromodichloromethane	428.2	20	400	0	107	75-125	386.8	10.2	30	
Bromoform	337.8	20	400	0	84.4	60-125	313.4	7.49	30	
Bromomethane	U	20	400	20.8	-5.2	30-185	1653	0	30	S
Carbon disulfide	484.8	20	400	0	121	60-165	416.2	15.2	30	
Carbon tetrachloride	383	20	400	41.8	85.3	65-140	325	16.4	30	
Chlorobenzene	407.4	20	400	0	102	80-120	373	8.82	30	
Chloroethane	554	20	400	0	138	31-172	464.6	17.6	30	
Chloroform	469.2	20	400	0	117	66-135	400.6	15.8	30	
Chloromethane	431.8	20	400	0	108	46-148	359.4	18.3	30	
cis-1,2-Dichloroethene	456.2	20	400	0	114	75-134	406.8	11.4	30	
cis-1,3-Dichloropropene	386.4	20	400	0	96.6	70-130	344.6	11.4	30	
Dibromochloromethane	352.6	20	400	0	88.2	60-115	315.4	11.1	30	
Dichlorodifluoromethane	416.8	20	400	0	104	20-120	353.8	16.4	30	
Ethylbenzene	527.6	20	400	97.4	108	76-123	476.4	10.2	30	
Isopropylbenzene	400	20	400	0	100	80-127	357.2	11.3	30	
Methyl tert-butyl ether	416	20	400	0	104	68-129	364.8	13.1	30	
Methylene chloride	469	100	400	0	117	72-125	410.2	13.4	30	
Styrene	416.8	20	400	0	104	83-137	377	10	30	
Tetrachloroethene	441.4	20	400	0	110	68-166	391.6	12	30	
Toluene	431	20	400	0	108	76-125	389	10.2	30	
trans-1,2-Dichloroethene	505.2	20	400	0	126	80-140	430.4	16	30	
trans-1,3-Dichloropropene	396.2	20	400	0	99	56-132	356.8	10.5	30	
Trichloroethene	444	20	400	0	111	77-125	401.6	10	30	
Trichlorofluoromethane	392.8	20	400	0	98.2	60-140	272.8	36.1	30	R

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

Client: The Mannik & Smith Group, Inc.
Work Order: 20052072
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R289834A** Instrument ID **VMS8** Method: **SW8260C**

Vinyl chloride	504.6	20	400	0	126	50-136	422.4	17.7	30
Xylenes, Total	2681	60	1200	1377	109	76-127	2437	9.55	30
Surr: 1,2-Dichloroethane-d4	*412.4*	0	*400*	0	*103*	*75-120*	414.6	*0.532*	*30*
Surr: 4-Bromofluorobenzene	*388*	0	*400*	0	*97*	*80-110*	402	*3.54*	*30*
Surr: Dibromofluoromethane	*402.2*	0	*400*	0	*101*	*85-115*	405.4	*0.792*	*30*
Surr: Toluene-d8	*403.8*	0	*400*	0	*101*	*85-110*	401.4	*0.596*	*30*

The following samples were analyzed in this batch: 20052072-21C 20052072-39C 20052072-41A

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

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Chain of Custody Form

Page 1 of 4

COC ID: 192497

ALS Project Manager:

ALS Work Order #: 2005 2072

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Metals (Al, Fe, Mn (Method 6020A))
Work Order		Project Number		B	Metals (Diss) (Al, Fe, Mn (Method 6020A))
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	
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-R2330026-051820-KRM-001	5/18/20	1050	Water		2	a	a									
2	W-R2330026-051820-JPM-002	5/18/20	1205														
3	W-R2330026-051820-KRM-003	5/18/20	1215														
4	W-R2330026-051820-JPM-004	5/18/20	1300														
5	W-R2330026-051820-KRM-005	5/18/20	1335														
6	W-R2330026-051820-KRM-006	5/18/20	1400														
7	W-R2330026-051920-JPM-007	5/19/20	1038														
8	W-R2330026-051920-KRM-008	5/19/20	1205														
9	W-R2330026-051920-JPM-009	5/19/20	1150														
10	W-R2330026-051920-KRM-010	5/19/20	1345														

Sampler(s) Please Print & Sign

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: Date: 5/28/20 Time: 900 Received by:

Relinquished by: Date: 5/28/20 Time: 1546 Received by (Laboratory): QS

Logged by (Laboratory): KW Date: 5/29/20 Time: 0830 Checked by (Laboratory): AC

Notes: 5/29/20 0700

Cooler ID	Cooler Temp.
SR1	3.2°C
PU20	

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

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 4

COC ID: 192498

ALS Project Manager: | ALS Work Order #: 20052072

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Metals (Al, Fe, Mn (method 6020A))
Work Order		Project Number		B	Metals (Diss) (Al, Fe, Mn (method 6020A))
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	
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-R2330026-051920-SPM-011	5/19/20	1310	water		2	x	x									
2	W-R2330026-051920-KRM-012	5/19/20	1500														
3	W-R2330026-051920-JPM-013	5/19/20	1445														
4	W-R2330026-052020-KRM-014	5/20/20	915														
5	W-R2330026-052020-SSR-015	5/20/20	1205														
6	W-R2330026-052020-KRM-016	5/20/20	1140														
7	W-R2330026-052020-SSR-017	5/20/20	1310														
8	W-R2330026-052020-KRM-018	5/20/20	1255														
9	W-R2330026-052020-SSR-019	5/20/20	1420														
10	W-R2330026-052020-KRM-020	5/20/20	1255														

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other	

Relinquished by:	Date: 5/28/20	Time: 900	Received by:	Notes: 5/29/20 0700
Relinquished by:	Date: 5/28/20	Time: 1545	Received by (Laboratory):	
Logged by (Laboratory): KRM	Date: 5/29/20	Time: 0830	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	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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Chain of Custody Form

Page 3 of 4

COC ID: 192496

ALS Project Manager: | ALS Work Order #: 20052072

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Metals (Al, Fe, Mn (Method 6020A))
Work Order		Project Number		B	Metals (Diss) (Al, Fe, Mn (Method 6020A))
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 48168	City/State/Zip	Canton, MI 48168	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-RZ330026-052020-SSR-021	5/20/20	1505	Water		5	a	a	a								
2	W-RZ330026-052020-KRM-022	5/20/20	1420	1		2	1	1									
3	W-RZ330026-052120-KRM-023	5/21/20	850														
4	W-RZ330026-052020-KRM-024	5/20/20	1540														
5	W-RZ330026-052120-KRM-025	5/21/20	1010														
6	W-RZ330026-052020-KRM-026	5/20/20	1650														
7	W-RZ330026-052120-KRM-027	5/21/20	1145														
8	W-RZ330026-052120-KRM-028	5/21/20	1320														
9	W-RZ330026-052120-KRM-029	5/21/20	1530			1											
10	W-RZ330026-052220-KRM-030	5/22/20	840	1		1	a	1									

Sampler(s) Please Print & Sign:

Shipment Method:

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

Results Due Date:

	Date:	Time:		
Relinquished by:	5/28/20	900	Received by:	
Relinquished by:	5/28/20	1545	Received by (Laboratory):	QS
Logged by (Laboratory): KRJ	5/29/20	0830	Checked by (Laboratory):	ye

Notes: 5/29/20 0700

Cooler ID	Cooler Temp.

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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Chain of Custody Form

Page 4 of 4

COC ID: 192495

ALS Project Manager: | ALS Work Order #: 20052072

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Metals (Al, Fe, Mn (Method 6020A))
Work Order		Project Number		B	Metals (Diss) (Al, Fe, Mn (Method 6020A))
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-R2330026-052220-SSR-031	5/22/20	925	water		2	X	X									
2	W-R2330026-052220-KRM-032	5/22/20	1045														
3	W-R2330026-052220-SSR-033	5/22/20	1010														
4	W-R2330026-052220-KRM-034	5/22/20	1215														
5	W-R2330026-052220-SSR-035	5/22/20	1130														
6	W-R2330026-052220-KRM-036	5/22/20	1235														
7	W-R2330026-052220-KRM-037	5/27/20	940														
8	W-R2330026-052720-KRM-038	5/27/20	945														
9	W-R2330026-052720-KRM-039	5/27/20	1135			5			X								
10	W-R2330026-052720-KRM-040	5/27/20	1200			2						-41		TRIP	BLANK		

Sampler(s) Please Print & Sign:

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 3 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 5/28/20	Time: 900	Received by:	Notes: 5/29/20 0700	
Relinquished by:	Date: 5/28/20	Time: 1545	Received by (Laboratory): QS	Cooler ID	Cooler Temp.
Logged by (Laboratory): KW	Date: 5/29/20	Time: 0830	Checked by (Laboratory):		

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

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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Sample Receipt Checklist

Client Name: **MANNIK&SMITH** Date/Time Received: **29-May-20 07:00**

Work Order: **20052072** Received by: **KRW**

Checklist completed by Keith Wierenga eSignature 29-May-20 Date Reviewed by: Bill Carey eSignature 29-May-20 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):	3.2/3.2 C	SR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/29/2020 8:51:32 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:	-		

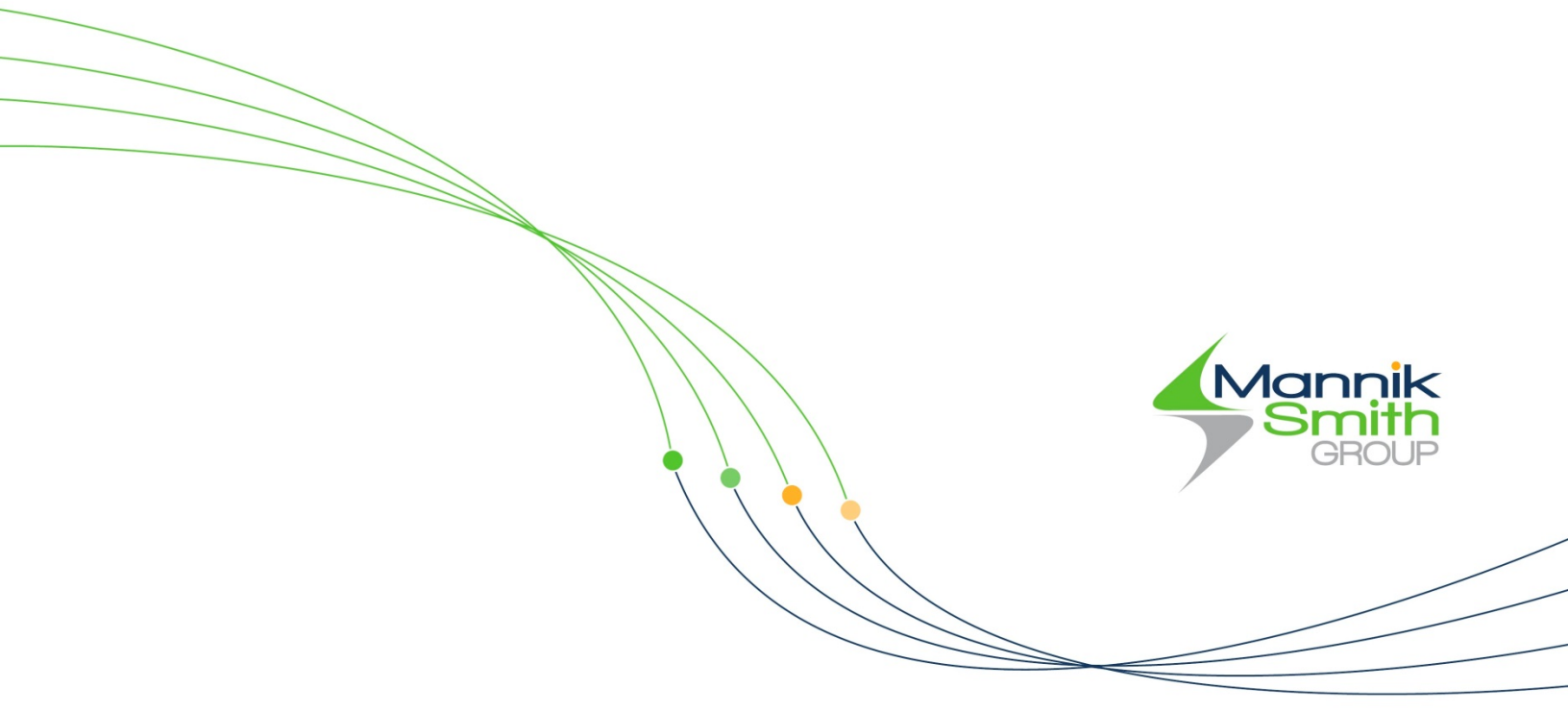
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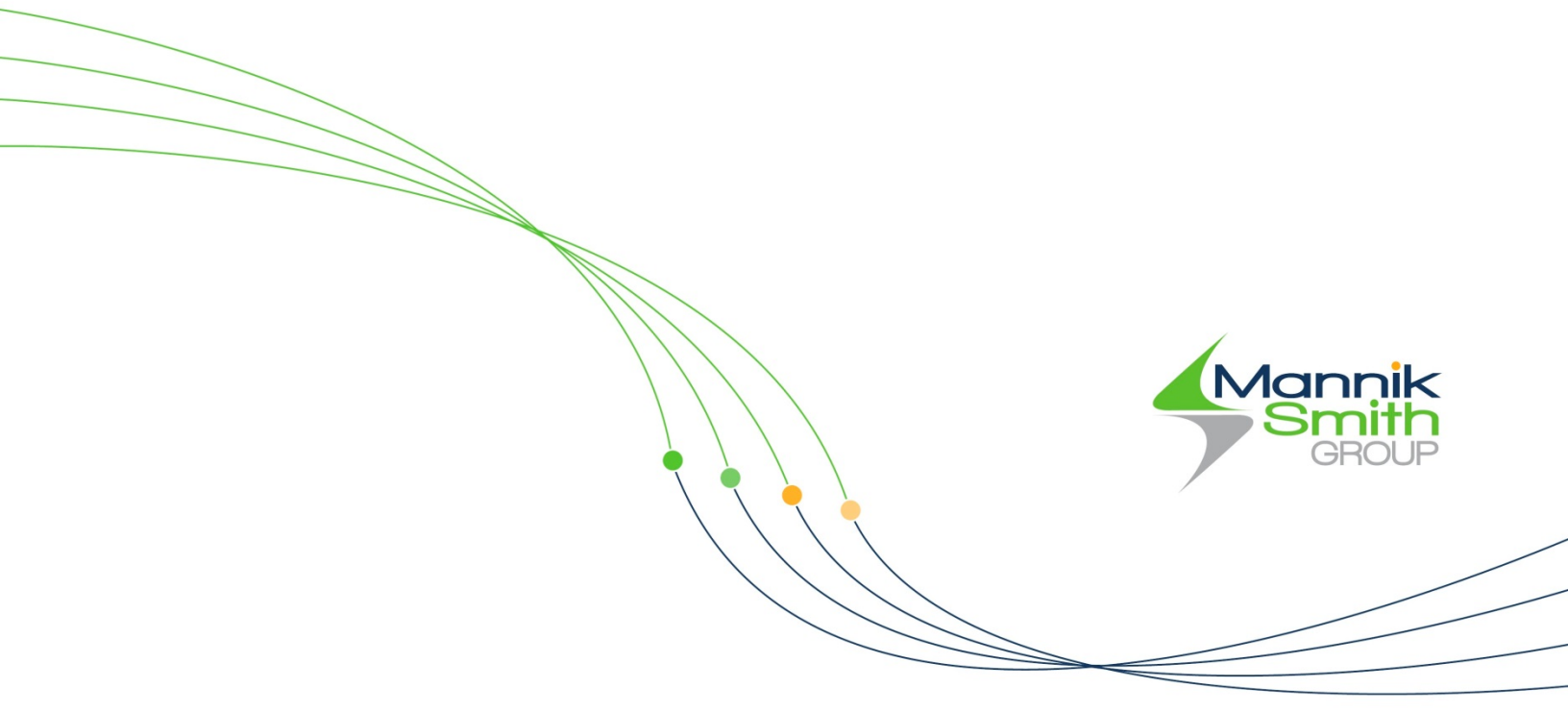
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Contacted By: Regarding:

Comments:

CorrectiveAction:


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Smith
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