



Michigan Department of Environmental Quality
Office of Waste Management and Radiological Protection

SOLID WASTE DISPOSAL AREA CONSTRUCTION PERMIT

This construction permit is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq., to permit the construction of a solid waste disposal area (Facility) in the state of Michigan. This permit does not obviate the necessity of obtaining other authorization as may be required by state law.

FACILITY NAME: Advanced Disposal Services Arbor Hills Landfill, Inc.

PERMITTEE/FACILITY OWNER: Advanced Disposal Services Arbor Hills Landfill, Inc.

PROPERTY OWNER: Advanced Disposal Services Arbor Hills Landfill, Inc.

TYPE OF FACILITY: Municipal Solid Waste Landfill

FACILITY ID: 475946

COUNTY: Washtenaw

PERMIT NUMBER: 4133

ISSUE DATE: June 10, 2013

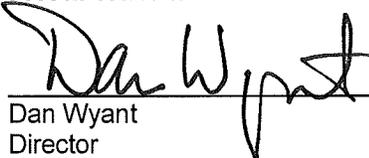
EXPIRATION DATE: One year from date of issuance unless development of the Facility begins within the year.

FACILITY DESCRIPTION: The Advanced Disposal Services Arbor Hills Landfill, Inc., a municipal solid waste landfill, consists of 337.24 acres located in Section 13, T1S, R7E, Salem Township, Washtenaw County, Michigan. The Facility is identified in Attachment A and is fully described in this permit.

RESPONSIBLE PARTY: David M. Rettell, General Manager
Advanced Disposal Services Arbor Hills Landfill, Inc.
10690 West Six Mile Road
Northville, Michigan 48168-9426
248-349-7230

This permit is subject to revocation by the Director of the Michigan Department of Environmental Quality (Director) if the Director finds that the disposal area is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. This permit shall be available through the applicant during its term and remains the property of the Director. Failure to comply with the terms and provisions of this permit may result in legal action leading to civil and/or criminal penalties as stipulated in Part 115.

THIS PERMIT IS NOT TRANSFERABLE UNLESS PRIOR AUTHORIZATION HAS BEEN OBTAINED FROM THE DIRECTOR.



Dan Wyant
Director
Michigan Department of Environmental Quality

Permittee/Facility Owner: Advanced Disposal Services Ann Arbor Hills Landfill, Inc.
Facility Name: Advanced Disposal Services Arbor Hills Landfill, Inc.
Construction Permit Number: 4133
Issue Date: June 10, 2013

The permittee shall comply with all terms of this permit and the provisions of Part 115 and its rules. This permit includes the permit application and any attachments to this permit.

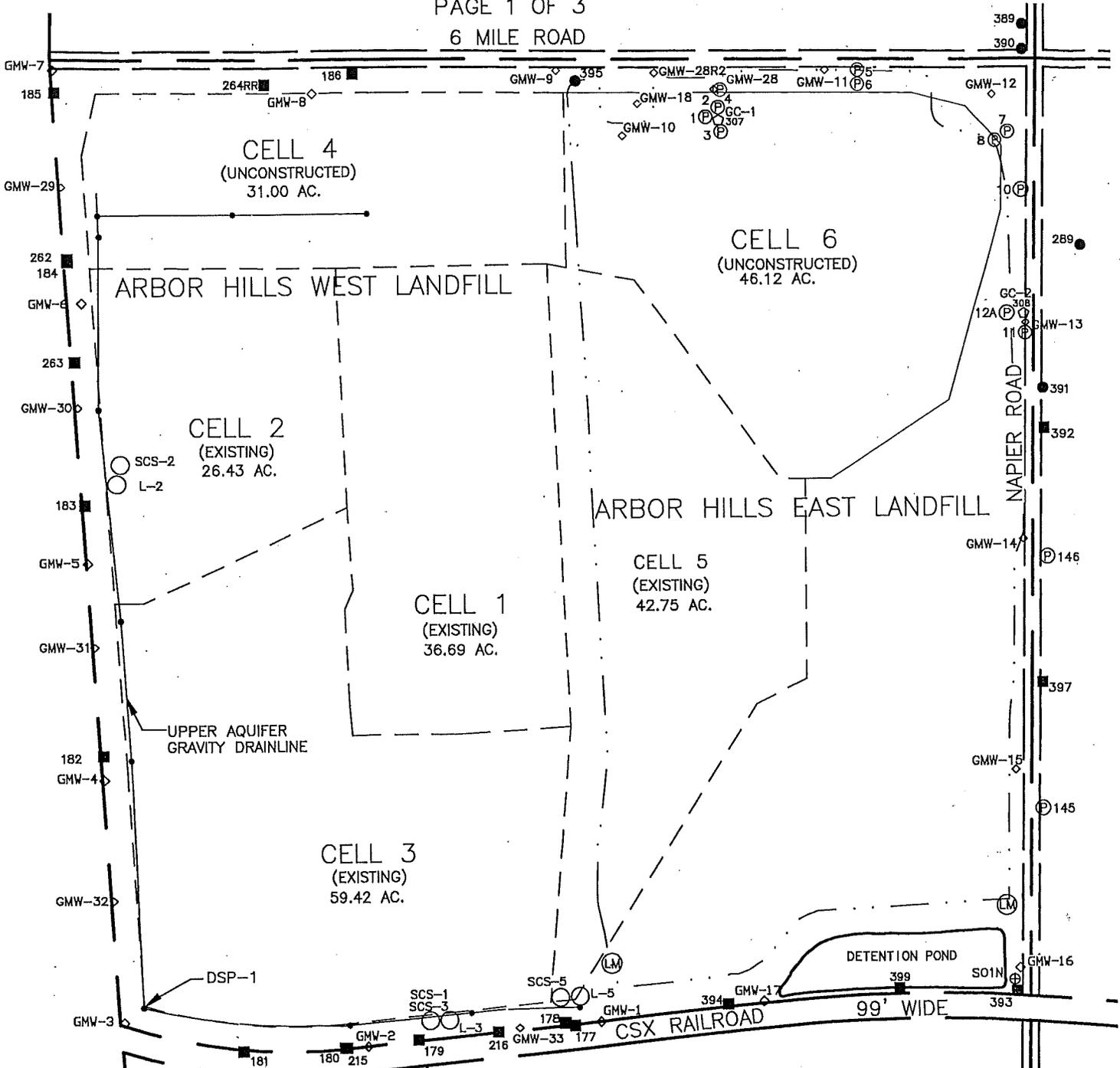
1. The permittee shall construct the Facility in a manner that will not violate any state or federal law.
2. This permit authorizes the construction of the disposal area as defined in the Application for Permit to Construct a Solid Waste Disposal Area (Application) documents dated March 5, 2013, and received by the Michigan Department of Environmental Quality (MDEQ), on March 6, 2013. The new disposal area authorized by this permit shall not be utilized for the disposal of solid waste until an operating license for the disposal area is issued by the MDEQ.
3. The attached map (Attachment A) shows the Facility, the area permitted for construction, area(s) authorized for the placement and/or acceptance of solid waste, monitoring points, leachate storage units, site roads, and related appurtenances.
4. Issuance of this permit is based on the assumption that the information submitted by the Applicant in the Application dated March 5, 2013, received by the MDEQ on March 6, 2013, and any subsequent amendments is accurate. Any inaccuracies or deviations found in this information may be grounds for the revocation or modification of this permit and/or other enforcement action. The permittee shall inform the MDEQ's Office of Waste Management and Radiological Protection (OWMRP), Jackson District Supervisor, of any known inaccuracies and/or any deviation in the information of the Application that would affect the permittee's ability to comply with the applicable rules or permit conditions. This permit is issued based on MDEQ review of the Application, EQP 5506. The Application includes the following documents or their approved revisions that are incorporated by reference and become enforceable portions of this permit:
 - a. Application Form EQP 5506.
 - b. Fee in the amount of \$250.
 - c. Executive Summary prepared by Midwestern Consulting, LLC, and dated March 4, 2013.
 - d. Revised Engineering Plan Sheets 1, 8, 9, 10, 17, 18, 19, 22, 23, and 24 entitled: Veolia ES Arbor Hills Landfill, Inc., Arbor Hills West Expanded Sanitary Landfill, Construction Permit Modification - January 2013, dated July 2, 2009, and revised March 1, 2013.
5. The sampling parameters and monitoring frequencies are outlined in the Hydrogeological Monitoring Plan. The sampling results shall be submitted to the MDEQ's OWMRP, Jackson District Office.
6. **VARIANCES:** The permittee is granted the following variance(s) from Part 115 and/or its rules: None.
7. **SPECIAL CONDITIONS:** This permit is a modification of Solid Waste Disposal Area Construction Permit Number 0376 issued to BFI Waste Systems of North America, Inc., on October 14, 1999, and Solid Waste Disposal Area Construction Permit Number 4108 issued to Veolia ES Arbor Hills Landfill, Inc., on December 11, 2009.
8. **TERM:** This construction permit shall expire one year after the date of issuance, unless development under the construction permit is initiated within that year.

END OF PERMIT

ARBOR HILLS WEST EXPANDED SANITARY LANDFILL

MONITORING LOCATIONS ATTACHMENT A

PAGE 1 OF 3
6 MILE ROAD



LEGEND	
■ 394	AHW HMP GW MONITORING WELLS
● 289	AHE GW MONITORING WELLS
◇ GC-1	GRADIENT CONTROL WELL
⊕	PIEZOMETER
⊕ LM	A.H. EAST LEACHATE MANHOLE
○ SCS	SECONDARY COLLECTION SYSTEM
○ L	LEACHATE SAMPLING POINT
⊕ SO1N	SURFACE WATER SAMPLING POINT
◇ GMW-9	GAS PROBE LOCATIONS
▷ DSP-1	DRAIN SAMPLING POINT
---	APPROXIMATE ARBOR HILLS EAST WASTE LIMITS



1" = 600'

MIDWESTERN CONSULTING
 Civil Engineers 7478 Gateway Park Drive
 Environmental Engineers Clarkston, Michigan 48346
 Planners, Surveyors 248-620-2203 Fax 248-620-2301

WASHTENAW COUNTY
WAYNE COUNTY

ARBOR HILLS WEST EXPANDED SANITARY LANDFILL FACILITY AREA SUMMARY MAP

6 MILE ROAD

6A 6D 8B 6B

CELL 4
(UNCONSTRUCTED)

AREA 4

AREA 6A

CELL 6
(UNCONSTRUCTED)

ARBOR HILLS WEST LANDFILL

AREA 2

CELL 2
(EXISTING)

(CERTIFIED FINAL COVER)
5.11 AC

(FINAL COVER)
1.46 AC

AREA 1

CELL 1
(EXISTING)

ARBOR HILLS EAST LANDFILL

CELL 5
(EXISTING)

AREA 5B

AREA 5A

NAPIER ROAD

AREA 3

CELL 3
(EXISTING)

AREA 7

DETENTION POND

CSX RAILROAD

LEGEND

- SOLID WASTE DISPOSAL AREA (ARBOR HILLS WEST EXPANDED)
- APPROXIMATE ARBOR HILLS EAST WASTE LIMITS

MIDWESTERN CONSULTING



Civil Engineers 7508 M.E. CAD Blvd, Suite B
Environmental Engineers Clarifont, Michigan 48348
Planners, Surveyors 248-425-0934 Fax 248-425-1013



1" = 600'

5/25/10

Arbor Hills Landfill Summary of Areas for Construction Permit and Facility Area Summary



Map Area #	Description	Acres	AHW Footprint	AHE Footprint (EXISTING)	AHE Footprint Removed w/ Expansion	AHE Footprint not covered by AHW	Currently Closed	FAS Line 1a	FAS Line 4	FAS Line 7	FAS Line 8	FAS Line 9	CP Application - Isolation and Ancillary Area	CP Application - Active Fill Area	CP Application - Closed Area	CP Application - Unclosed Area	CP Application - Unconstructed
Current Permit*																	
1	Cell 1	36.69	36.69					36.69		36.69			36.69	36.69		36.69	
2	Cell 2	26.43	26.43					21.32		26.43			26.43	21.32		21.32	
	Closed portion of Cell 2	5.11					5.11				5.11			5.11			
3	Cell 3	59.42	59.42					57.96		59.42			59.42	57.96		57.96	
	Closed portion of Cell 3	1.46					1.46				1.46			1.46			
4	Cell 4	31.00	31.00						31.00	31.00			31.00				
5A	Cell 5 over AHE	33.41	33.41	33.41				33.41		33.41			33.41	33.41		33.41	
5B	Cell 5 over natural soil	9.34	9.34					9.34		9.34			9.34	9.34		9.34	
6A	Cell 6 over AHE	44.72	44.72	44.72						44.72		44.72	44.72		44.72		
6B	Cell 6 over natural soil - NE corner	0.40	0.40							0.40			0.40				
6C	Cell 6 over natural soil - btw Cell 4 & 6	0.50	0.50							0.50			0.50				
6D	Cell 6 over natural soil - office area	0.50	0.50						0.50	0.50			0.50				
6 PP	Cell 6 previous permit, unconstructed	26.50															26.50
7	AHE not covered by AHW or removed	52.00		52.00		52.00	52.00			52.00		52.00	52.00		52.00		
8A	AHE area removed - east of office	0.80		0.80	0.80		0.80		0.80	0.80		0.80			0.80		
8B	AHE area removed - west of office	0.10		0.10	0.10		0.10		0.10	0.10		0.10			0.10		
Previous Permit Areas																	
	Cell 4 Previous Permit	30.60															30.60
	Cell 5 over AHE, previous permit, unconstructed*	1.71															1.71
	Cell 5 Nat Soil, previous permit, unconstructed**	0.54															0.54
	Totals		242.41	131.03	0.90	52.00	104.19	158.72	32.40	295.31	6.57	97.62	294.41	158.72	104.19	158.72	59.35

Total Solid Waste Boundary After Expansion (AHW+AHE) 294.41
 Total Property Area 337.24
 Ancillary and Isolation Area at Completion (Total-SW Units) 42.83

* See "Facility Area Summary Map" Dated 5/25/10
 ** See "Cell 5 Unconstructed Area From 1998 Permit" dated 5/26/10

41.93
Line 7

42.83