NEW HAMPSHIRE DEPARTMENT OF Environmental Services

ANNUAL FACILITY REPORT
ACTIVE SOLID WASTE FACILITIES
Waste Management Division/Solid Waste Management Bureau

RSA 149-M/Env-Sw 1105.07

For Reporting Year 2018

1. Facility Identification (Env-Sw 1105.13(a))

Facility Name: AVRRDD - MT. CARBERRY LANDFILL	
Physical Street Address: BEAN BROOK ROAD	
Town/City: SUCCESS, N.H.	Permit Number: DES-SW-88-029

2. Permittee Information (Env-Sw 1105.13(b))

Name: ANDROSCOGGIN VALLEY REGIONAL REFUSE DISPOSAL DISTRICT		
Mailing Address: P.O. BOX 336		
Town/City: BERLIN	State: N.H.	Zip Code: 03570
Email Address: Sgauthier@avrrdd.org	Phone Number: (603) 752-3342	

3. Contact Person

Name: SHARON E. GAUTHIER	Job Title: EXECUTIVE DIRECTOR
Affiliation: ANDROSCOGGIN VALLEY REGIONAL REFUSE DISPOSAL DISTRICT	
Email Address: Sgauthier@avrrdd.org	Phone Number: (603) 752-3342

4. Facility Status (Env-Sw 1105.13(d))

- [X] Operated the entire calendar year.
- [ ] Did not operate in the calendar year.
- [ ] Operated part of the calendar year only.

Started operating on ___/___/2018 (Month / Day) Stopped operating on ___/___/2018 (Month / Day)

5. Facility Status – *Operating Landfills Only* (Env-Sw 1105.13(d)) SEE REPORT ATTACHED

Estimated remaining life (in years).
Estimated remaining permitted capacity (in cubic yards) as of 12/31/2018.
Attach a brief summary of facility inspection and maintenance activities in accordance with Env-Sw 806.08(j).

6. Facility Operator Information (Env-Sw 1105.13(c))

Name	Certificate Number	Expiration Date	Still Working at Facility as of December 31?
1. JAMES BAILLARGEON	2071	5/8/19	☒ Yes ☐ No
2. PAUL LABRECQUE	2930	5/8/19	☒ Yes ☐ No
3. MICHAEL HACHEZ	1823	5/8/19	☒ Yes ☐ No
4. TIMOTHY FISKE	1465	5/8/19	☒ Yes ☐ No
5. MATTHEW HENRY	2982	5/8/19	☒ Yes ☐ No

☒ Additional Facility Operator Information is attached to this Annual Facility Report.

7. Waste and Recyclables Received & Shipped (Env-Sw 1105.13(e), Env-Sw 1105.13(f))

SEE ATTACHED REPORT

Type of Waste

Note: Universal Wastes and Used Oil are included in Section 11, so do not enter them here.

☒	Ash	☐	Electronic Waste	☐	Scrap Metal
☒	Asbestos	☐	Food Waste	☐	White Goods
☒	Bulky Waste	☐	Infectious Waste	☐	Other:
☒	C&D Debris	☒	Municipal Solid Waste	☐	Other:
☒	Contaminated Soil	☐	Recyclable Materials	☐	Other:

Quantity of Waste

Quantity of Waste Received		Quantity of Waste Shipped N/A	
Non-Recyclable Waste Received:		Non-Recyclable Waste Shipped:	
From NH Sources	tons	To NH Destinations	tons
From Out-of-State Sources	tons	To Out-of-State Destinations	tons
Total Received	tons	Total Shipped	tons
Recyclables Received:		Recyclables Shipped:	
From NH Sources	tons	To NH Destinations	tons
From Out-of-State Sources	tons	To Out-of-State Destinations	tons
Total Received	tons	Total Shipped	tons

SEE REPORT ATTACHED

8. Estimated Quantity of Waste Stored at the Facility as of December 31, 2018 (Env-Sw 1105.13(i))

N/A

Type of Waste	Quantity Onsite as of Dec. 31	Type of Waste	Quantity Onsite as of Dec. 31
Ash	tons	Municipal Solid Waste	tons
Asbestos	tons	Recyclable Materials	tons
Bulky Waste	tons	Scrap Metal	tons
C&D Debris	tons	White Goods	tons
Contaminated Soil	tons	Other:	
Electronic Waste	tons	Other:	
Food Waste	tons	Other:	
Infectious Waste	tons	Other:	

9. Bypass and Residual Waste (Env-Sw 1105.13(g))

Note: Please refer to the Guidance Sheet for definitions of bypass waste and residual waste.

Waste	Total Quantity Generated	Quantity Shipped to NH Destination(s)	Quantity Shipped to Out-of-State Destination(s)
Bypass Waste	tons	tons	tons
Residual Waste	tons	tons	tons
Leachate	21,520,687 gallons	N/A gallons	N/A gallons

PIPED TO CITY OF BERLIN WASTEWATER TREATMENT PLANT

10. Facilities Producing Certified Waste-Derived Products (Env-Sw 1105.13(h)) N/A

Type of Waste-Derived Product Produced	Quantity Produced	Quantity Distributed for Use	Estimated Quantity Stored at Facility as of December 31
	tons	tons	tons
	tons	tons	tons
	tons	tons	tons
	tons	tons	tons

☐ I certify that all waste-derived products distributed by the facility for use met the applicable standards for distribution and use pursuant to Env-Sw 1500.

OR

☐ I CAN NOT certify that all waste-derived products distributed by the facility for use met the applicable standards for distribution and use pursuant to Env-Sw 1500, and have attached a detailed explanation of the situation and actions taken or being taken to remedy the problem.

11. Other Activities Taking Place at the Facility

☐	Burn Pile	☐	Refrigerant Removal	☐	Swap Shop
☐	Food Waste Composting	☒	Leaf & Yard Waste Composting 1140.01 TONS (NOT LANDFILL) ON PROPERTY	☒	Other: GLASS CRUSHED + USED AS COVER
☐	Used Oil Collection	☐	Sharps Collection	☐	Other:
☐	Used Oil Burner: EPA ID No. NHD				
Universal Waste Collection					
☐	Antifreeze	☐	Batteries (Rechargeable)	☐	Fluorescent Lamps
☐	Batteries (Automotive)	☐	Cathode Ray Tubes (CRTs)	☐	Mercury-Containing Devices

12. Summary and Assessment of Environmental Monitoring (Env-Sw 1105.13(j))

☐ None required and none undertaken.

☐ None required, but environmental monitoring was undertaken voluntarily. A summary and assessment of the environmental monitoring is attached.

☒ Environmental monitoring is required by this facility's permit and/or the Solid Waste Rules. A summary is:

- ☒ Attached to this report; or
- ☐ Provided in the following documents previously submitted to NHDES as indicated below:

Date Submitted	Title of Document	Type of Monitoring

13. Public Benefit Discussion (Env-Sw 1105.13(k))

☐ None required by the facility's permit.

☒ Public benefit discussion is required by the facility's permit. A discussion is attached to this report.

14. Compliance Certification (Env-Sw 1105.13(l) or Env-Sw 1105.13(m))

I certify that the facility is in compliance with the requirements of the following:

Yes	No	N/A	
☐	☒		The facility's current operating plan; SEE ATTACHED
☐	☒		All terms and conditions of the facility's permit; SEE ATTACHED
☒	☐	☐	Env-Sw 900 for asbestos, ash, contaminated soils, ~~infectious waste, and/or tires~~; N/A N/A
☐	☐	☒	Env-Hw 1100 for the management of Universal Wastes;
☐	☐	☒	Env-Hw 807 for the management of Used Oil; and
☐	☐	☒	Env-A 1000 for the operation of a burn pile.

If you have checked "No" above, attach an explanation and proposed schedule for achieving compliance.

15. Signature (Env-Sw 1105.13(o))

By signing below, I affirm that the material and information submitted in this report is correct and complete to the best of my knowledge and belief, and that I am the permittee or a person duly authorized to sign for the permittee.

Sharon E. Gauthier
Signature of the Permittee or Duly Authorized Representative

3/29/19
Date

SHARON E. GAUTHIER
Printed Name

EXECUTIVE DIRECTOR
Title

This report contains 13 attached pages.

Complete and return this form by *MARCH 31* to:

NHDES, Waste Management Division, Solid Waste Management Bureau
PO Box 95, 29 Hazen Drive, Concord, NH 03302-0095
FAX: (603) 271-2456 • Email: solidwasteinfo@des.nh.gov

Optional Survey Next Page

NHDES is requesting additional information via the attached survey. Responses to this survey will help us assess materials management trends in NH. Participation is voluntary, but we appreciate any information you can share.

2018 ANNUAL FACILITY REPORT		AVRRDD-MT. CARBERRY LANDFILL		
#6	FACILITY OPERATOR INFORMATION CONTINUED			
	Name	Cert. #	Expiration	Still working as of 12/31/18
6	Jean Paul Lettre	1714	5/8/2019	yes
7	Mark Nadeau	4040	3/6/2020	yes
8	Vincent Donato	4076	9/4/2019	yes
9	Joshua Perreault	4773	1/11/2019	yes
10	Bruce Hamilton	5078	4/19/2019	yes
11	Douglas Hill	5402	1/29/2020	yes

2018 ANNUAL FACILITY REPORT FOR LANDFILLS

AVRRDD-MT. CARBERRY LANDFILL

Waste Type	List of New Hampshire Towns Using Facility	Amount	List Other States Using Facility	Amount
Residential MSW	Bartlett	984.22	Maine	2,071.89
	Berlin	3,738.41	Vermont	560.84
	Colebrook	592.18		
	Columbia	155.80		
	Carroll	267.43		
	Coos Unincorporated	120.85		
	Dummer	195.92		
	Errol	135.08		
	Gorham	1,655.09		
	Jackson	402.11		
	Jefferson	208.86		
	Lancaster	513.02		
	Meredith	2,625.79		
	Milan	555.22		
	New London	2,208.35		
	North Stratford	119.86		
	Northumberland	719.71		
	Pittsburg	395.73		
	Randolph	83.80		
	Shelburne	73.00		
	Stark	78.19		
	Stewartstown	450.37		
	Washington	412.40		
	Whitefield	288.90		
Total		16,980.29		2,632.73
Commercial/Industrial MSW		62,083.27	Maine	40,336.53
			Vermont	3,206.35
			Mass	0.00
Total		62,083.27		43,542.88
Residential Construction/Demolition Debris	AVRRDD	2.20		
	Bartlett	523.24	Maine	619.49
	Berlin	0.00	Vermont	264.60
	Colebrook	205.29		
	Columbia	49.58		
	Carroll	91.93		
	Coos County Unincorporate	7.86		
	Errol	0.00		
	Gorham	31.21		
	Jackson	251.85		
	Jefferson	123.04		
	Lancaster	784.53		
	Meredith	1,608.56		
	Milan	0.00		

	North Stratford	129.14		
	Northumberland	276.01		
	Pittsburg	212.84		
	Randolph	0.00		
	Shelburne	32.98		
	Stark	52.20		
	Stewartstown	143.31		
	Washington	9.12		
	Whitefield	120.76		
Total		4,655.65		884.09

Commercial/Industrial:

Construction/Demolition Debris		53,588.14	Maine	399.58
			Vermont	2,605.06
			Massachusetts	0.00
Total		53,588.14		3,004.64

Other:
Residential

Asbestos	AVRRDD	83.51		
	Berlin	0.00		
Bulkie Waste	AVRRDD	971.85		
	Berlin	0.78		
	Bartlett	104.34		
	Gorham	283.80		
	Washington	193.81		
	Shelburne	9.24		
	Jefferson	0.00		
Ash	Berlin	0.00		
Sludge	Berlin	1,737.78		
	Gorham	256.26		
	Pittsburg	25.52		
Grit	Berlin	17.34		
Contaminated Soil	AVRRDD	2,230.18		
	Shelburne	0.00		
	Whitefield	0.00		
	Berlin	0.00		
Reusable's:				
Crushed Glass	AVRRDD	414.27		
	Bartlett	171.94		
	Jefferson	29.18		
	Coos Recycling	0.00		
			Vermont	0.00
Sand	Berlin	130.38		
Cover Soil	AVRRDD	279.67		
Ground Wood	AVRRDD	710.64		
Total		7,650.49		0.00

Other:
Commercial

Asbestos	117.32	Vt.	0.00
Ash-Coal	0.00		
Ash/Soda Ash	0.00	Maine	0.00
Bulkie Waste	93.34	Vt.	4.73
Contaminated Soil	47.61	Maine	0.00
Contaminated Wood	0.00	Massachusetts	0.00
		Rhode Island	0.00
		Vt.	0.00
Grit	0.00		
Dirt/Grvl/Snd/CrushdStn/Rec	0.00		
Other	2.92		
Sludge	0.00		
Sludge/RipRap	0.00		
Metal Dust	2.90		

Reusable's:

C&D Fines	0.00	Massachusetts	0.00
Wood Chips	0.00	Massachusetts	0.00
Ground Wood	0.00	Maine	0.00
		Massachusetts	0.00
Fluff		Massachusetts	40,139.98
Contaminated Dirt	0.00		
Total	264.09		40,144.71

Total In-State & Out of State	145,221.93	90,209.05

Mt. Carberry Pit	
Sand	26,240.50
Mill	
Sludge	9,359.01
Asbestos	0.00
Paper/Cardboard/Cores/Felts/Misc	449.82
C & D	3.99
Other	0.00
MSW	0.00
Grand Total	271,484.30

AVRRDD - MT. CARBERRY LANDFILL - 2018
GORHAM PAPER & TISSUE

QUARTER:	SLUDGE	ASBESTOS	ASH	LIME	GRIT	CONTAMINATED EXCAVATION DEBRIS	SAND/ GRAVEL	SAWDUST CONTAINING ABSRBD CHEM	PAPER/CORES FELTS/STARCH	MSW	C&D BULKY	SUB TOTAL
Jan	1,185				-				42		4	1,231
Feb	677								33			710
Mar	702								41			743
Q1-18	**2,564**	-	-	-	-	-	-	-	**116**	-	**4**	**2,684**
Apr	995								22			1,017
May	1,171								40			1,211
Jun	919								35			953
Q2-18	**3,085**	-	-	-	-	-	-	-	**96**	-	-	**3,181**
Jul	312								51			364
Aug	472								43			515
Sept	554								43			597
Q3-18	**1,339**	-	-	-	-	-	-	-	**137**	-	-	**1,476**
Oct	525								41			566
Nov	818								29			847
Dec	1,028								31			1,059
Q4-18	**2,372**	-	-	-	-	-	-	-	**100**	-	-	**2,472**
2018 TOTAL:	9,359	-	-	-	-	-	-	-	450	-	4	9,813

AVRRDD-MT CARBERRY LANDFILL - 2018
TONS DELIVERED BY CATEGORY
TOWNS & COMMERCIAL

QUARTER:	SLUDGE	MISC.	Grit	Ash	ASBESTOS	Out of State ASBESTOS	In-State MSW	Out of State MSW	In-State C&D	Out of State C&D	BULKY	Out of State Bulky	CONTAMINATED SOIL	Out of ST CONTAMINATED SOIL	SUB TOTAL
Jan	191		7				7,282	2,541	3,569	174	72				13,836
Feb	186				3		5,373	2,180	3,400	206	60		45		11,453
Mar	157	1			3		5,573	2,496	3,658	213	91		3		12,196
Q1-18	534	1	7	-	6	-	18,228	7,217	10,628	594	222	-	48	-	37,484
Apr	173						5,803	3,552	5,142	244	127				15,041
May	171	1	1		81		6,619	3,929	5,957	446	180				17,383
Jun	159				14		6,668	3,457	5,580	403	186	5			16,471
Q2-18	502	1	1	-	95	-	19,089	10,938	16,679	1,094	493	5	-	-	48,896
Jul	204	0			6		7,434	4,198	5,925	437	163		2,230		20,597
Aug	158						7,898	5,555	6,001	386	159	-			20,156
Sep	128				3		6,510	4,566	5,090	408	149				16,854
Q3-18	490	0	-	-	10	-	21,842	14,319	17,016	1,231	471	-	2,230		57,608
Oct	157	1					8,301	5,217	5,879	373	221				20,149
Nov	153		10				6,652	4,295	4,189	341	147				15,787
Dec	183	3			8		4,953	4,190	3,852	257	103				13,549
Q4-18	493	4	10	-	8	-	19,905	13,702	13,921	971	471	-	-	-	49,485
2018 TOTAL:	2,020	6	17	-	119	-	79,064	46,176	58,244	3,889	1,657	5	2,278	-	193,473

Q1-18 Misc	Capone Metal Dust
Q2-18 Misc	Capone Metal Dust
Q3-18 Misc	Capone Metal Dust
Q4-18 Misc	Loose Froozen Paper

AVRRDD-MT CARBERRY LANDFILL - 2018
TONS DELIVERED BY CATEGORY
REUSABLE

QUARTER:	C&D FINES	Out of State C&D FINES	GLASS	Out of State Glass	Out of State AUTO FLUFF	Cover Soil LF	WOOD CHIPS	Out of State WOOD CHIPS	WOOD GRINDINGS	Out of State Wood GRINDINGS	SAND/GRAVEL	SUB TOTAL	Grand Total
Jan			52		3,771	280					291	4,394	19,460
Feb			47		4,587						601	5,235	17,399
Mar			31		5,709						109	5,850	18,788
Q1-18	-	-	131	-	14,068	280	-	-	-	-	1,001	15,479	55,647
Apr			63		5,888						520	6,471	22,529
May			49		5,049				-		364	5,461	24,055
Jun			50		3,537				408		1,966	5,960	23,385
Q2-18	-	-	161	-	14,474		-	-	408	-	2,850	17,892	69,969
Jul			70		3,838						728	4,635	25,596
Aug			49		4,421						-	4,469	25,140
Sept		-	50		3,193						2,907	6,150	23,602
Q3-18	-	-	168	-	11,452		-	-	-	-	3,635	15,255	74,339
Oct			62						385		5,300	5,747	26,462
Nov			43								6,160	6,202	22,836
Dec			51	-	147						7,426	7,623	22,231
Q4-18	-		156	-	147	-	-	-	385	-	18,885	19,573	71,529
2018 TOTAL:	-	-	615	-	40,140	280	-	-	793	-	26,371	68,199	271,484

Mt. Carberry Secure Landfill

Annual Report – Addition Information

Item 5. Facility Status

Both the time and volume estimates below are based on the October 2019 annual survey and a permitted filling rate 305,500 cy/year.

Box 1 – Estimated Remaining Life (in years):

- Estimated remaining life of Stage 5&6 as of 12/31/18 = 5.72 years (6/20/2024)
- Estimated total remaining life through the end of Phase III as of 12/31/18= 30.74 years (9/19/2049)

Box 2 – Estimated remaining permitted capacity (in cubic yards) as of 12/31/18:

- Volume remaining in Stage 5&6 (Phases I&II) as of 12/31/18 = 1,673,000 cy
- Volume remaining in Phases III as of 12/31/18 = 7,718,000 cy
- Total Volume remaining in Phases I-III = 9,391,000 cy

Box 3 – Attach a brief summary of inspection and maintenance activities in accordance with Env-Sw 806.08(j):

In 2018, landfill personnel performed regular facility, infrastructure, and equipment inspections which include all items outlined in Env-Sw 806.08(c) as follows:

- Roads;
- Berms (Landfill, leachate storage pond, and stormwater detention pond);
- Active and inactive filling areas;
- Pipes;
- Vaults;
- Valves;
- Above ground storage tanks;
- Ponds;
- Equipment;
- Temporary, intermediate and final cover;
- Groundwater monitoring wells and piezometers; and
- Gas management devices.

Inspection records are kept at the facility and the District office. Operating data is provided to the NHDES in the quarterly landfill report.

Maintenance activities performed at the facility in 2018 include:

- In 2018 AVRRDD continued construction of the "2017 Leachate Sewer Improvements" project, which are long term improvements to the leachate collection system outside the landfill. The

project was substantially completed in 2018 by the leachate storage pond and is scheduled for completion by the landfill in the spring of 2019.

- Replaced piping for the 6" leachate forcemain past the leachate siphon chamber to HDPE and both of the 3" lines are scheduled to be replaced in 2019;
- Rehabilitated gravity leachate manholes from the leachate pond to the siphon chamber
- Replaced aging and undersized culverts along the landfill access road and on Cascade Alpine Brook Road, between the landfill and the alcohol sand pit;
- Swept paved roads;
- Applied water to roads as necessary to control dust;
- Regraded and back-dragged gravel roads and shoulders
- Rehabilitated/repaired paved roads;
- Exercised valves;
- Mowing grass and other vegetation maintenance;
- Applying additional intermediate soil & ADC cover to inactive exposed areas as necessary;
- Patched existing temporary HDPE geomembrane cover as necessary;
- Regular landfill equipment maintenance and service;
- Camera inspection and hydrojetting of entire leachate sewer;
- Regular leachate siphon flushing using the flushing pump;
- Litter cleanup;
- Repaired litter fence as necessary;
- Removed silt from stormwater swales, culverts, and ponds;
- Applied grass seed as necessary;
- Regraded borrow pits slopes as necessary;
- Repaired facility signage as necessary;
- Expanded landfill gas collection system into areas without collection; and
- General landfill gas system maintenance and equipment servicing.

Mt. Carberry Secure Landfill

Annual Report – Addition Information

Item 12. Summary and Assessment of Environmental Monitoring in 2018 (Env-SW 1105.13(j))

Environmental monitoring at the landfill was conducted during 2018 in accordance with the following permits:

- DES Solid Waste Landfill Permit – DES-SW-88-029;
- DES Groundwater Release Detection Permit – GWP-198706016-S-005;
- DES Title V Air Permit – TV-0057;
- EPA 2015 NPDES MSGP for Stormwater Discharges Associated with Industrial Activity – NHR053092 (Tracking Number); and
- City of Berlin Leachate Discharge Permit.

Required NHDES reporting is submitted to the NHDES per each respective permit. Records for the NPDES 2015 MSGP is maintained at the District offices and submitted electronically via USEPA's NetDMR website. The City of Berlin Leachate Discharge Reports are maintained at the District offices and on-site. In 2018, the results of monitoring have been in accordance with project requirements.

Similar to 2017, groundwater quality sampling and analysis performed in 2018 detected multiple VOCs downgradient of the leachate storage pond at elevated concentrations. Of the VOCs detected, 1,4-dioxane and tert-butyl alcohol which were detected above each compound's respective ambient groundwater quality standard. PFOA was also detected above the AGQS by itself and PFOA and PFOS were detected above their combined AGQS. Multiple inorganic compounds were measured above background concentrations and manganese was detected above it's AGQS. The corrective action plan (CAP) approved by NHDES on May 31, 2017, continues to be followed including increased groundwater quality monitoring at locations in the vicinity of the impacts, additional groundwater and infrastructure evaluations, groundwater pump-and-treat operations, and the replacement and rehabilitation of failed and aging leachate sewer infrastructure. In addition, incidents occurring on January 18, 2018, and July 13, 2018 which have been previously reported to NHDES in accordance with Env-Sw 1005.09, had the potential to impact groundwater quality.

2018 groundwater and surface water quality results, a review of incidents potentially impacting ground and surface water quality which occurred at the facility in and prior to 2018, and a summary of the CAP's implemented measures are presented in detail in the 2018 annual groundwater report dated January 31, 2019.

See attached a summary table of compliance reporting including the date submitted, title of the report, and compliance category.

Mt. Carberry Secure Landfill

Annual Report – Addition Information

Item 13. Public Benefit Discussion (Env-Sw 1105.13(k))

The District provides substantial public benefit by:

- ***Providing required capacity to the State of NH***
  Per the February 11, 2005, NHDES Type I-B permit modification approval, "the landfill must remain in operation for 18 years from issuance of this permit, which corresponds to December 31, 2022." As of December 31, 2018, the Mt. Carberry Secure Landfill has available remaining capacity to meet this permit requirement at current tonnage acceptance rates.

  In addition to the permit requirement above, the AVRRDD is a quasi-municipal RSA:53B waste management district serving its nine local community members and unincorporated places in Coos County, as listed below.

Berlin	Dummer	Errol
Gorham	Jefferson	Milan
Northumberland	Randolph	Stark
Coos County for Unincorporated Places		

  In 2018 the Mt. Carberry Landfill directly served 14 additional communities, 11 of which are considered Northern New Hampshire communities, for disposal of municipal solid waste, C&D, bulky and other wastes. These 13 communities are located in the following NH counties:

Coos County	Carroll County	Sullivan County
Belknap County	Merrimack County	

  Consistent with the original purpose of the landfill, the Mt. Carberry Landfill continues to provide dedicated disposal capacity to the Gorham Paper and Tissue mill located in Gorham, NH. The landfill also provides fuel to the mill in the form of landfill gas used in the mill's main boilers. The mill is a vital component of the local economy and these disposal and energy arrangements are key elements in its economic viability.

  The landfill also accepts various industrial generated solid wastes from the local biopower facility, Berlin Station, LLC, that cannot be recycled or reused.

  In summary, the MCSL provides local waste management services to a large portion of the northern section of the state including municipal, commercial and industrial users. The rate of utilization of the currently permitted and operating Phase I & II portions of the landfill is within permit requirements for maintaining capacity through December 21, 2022 consistent with public benefit requirements.

- ***Assist the State to implement its waste management hierarchy goals***
  The State waste management hierarchy and goals contain two principal components: the effect the facility will have on the State's ability to achieve a 40% minimum weight reduction in the solid waste stream on a per capita basis, and supporting the waste hierarchy which favors recycling and reuse over other waste disposal methods including discouraging the disposal of recyclable materials in landfills.

  The District runs an integrated waste management system which includes two primary facilities, the AVRRDD Transfer Station and Material Recycling Facility (MRF) and the Mt. Carberry Secure Landfill (MCSL).

  The District's Transfer Station and MRF provide for both residential drop-off and municipal and commercially collected recyclables and other special wastes. Recyclable fiber and containers are source separated and baled for maximum future reuse. The facility serves the ten member communities plus is open to outside communities, subject to agreements with AVRRDD, including availability to all communities served by the landfill. Each of the District communities has its own recycling collection system, which are a combination of curbside collection with direct drop-off at the MRF and local transfer stations where the recyclables are transferred to the MRF for processing.

  Residents from any of the member communities can directly drop-off recyclables or other allowed materials at the transfer station. Reused wastes included crushed glass, and chipped wood used for landfill daily cover. Various special wastes, including several universal wastes are managed to keep these materials out of the landfill waste stream. AVRRDD also holds an annual household hazardous waste day at the MRF.

  In addition to the recycling directly completed by the District, other communities which utilize the landfill provide recycling services through their municipal operations. A review was completed in 2017 of the communities that disposed of MSW at the MCSL and all communities were identified as having recycling available in their communities, primarily through recycling drop off centers.

  The MCSL provides for reuse of several materials as alternate daily cover, including auto shredder residue, chipped wood, and crushed glass, as part of its operations. The MCSL provides disposal for several wastes for which there are not good alternatives to landfilling, including asbestos, contaminated soils and several industrial wastes including wastes from the paper mill.

- ***Achieve the goals of the AVRRDD and the State solid waste management plan***
  Through operation of the AVRRDD Transfer Station and MRF and the MCSL, the District achieves the goals of its own solid waste management plan. The MCSL operation is consistent with the State's solid waste management plan.

Mt. Carberry Secure Landfill

Annual Report – Addition Information

Item 14. Compliance Certification (Env-Sw 1105.13(l) or Env-Sw 1105.13(m))

The Mt. Carberry Secure Landfill cannot certify that it is in compliance with Env-Sw 806.06(d)(1) and (2) due to the following items.

Env-Sw 806.05(b)(1) requires routine facility operations to not result in more than one foot of hydraulic head on the liner system. Hydraulic head as measured by the piezometric transducer system (Geokon) have reported head on liner above one foot in several cells at different periods in 2018. For the first and last quarter in 2018, elevated head on liner was measured at VW-8A. This item was reported in the 2018 Fourth Quarter Report. During the fourth quarter, GW-8A showed head on liner consistently the same day as storm events. It is believed that because GW-8A shows head on liner the same day as a storm event, stormwater is getting into the piezometer conduit and the piezometer is reading this as head on the liner. The location of the piezometer in the landfill cell is about 13 feet vertically lower than the accessible end of the conduit. The open air end of the conduit is not capped for the purpose of keeping the piezometer under atmospheric pressure. In addition, only the end of the conduit by the piezometer is perforated so it would take time for any water in the conduit to seep into the surrounding sand/waste. In addition to possible stormwater intrusion, VW-8A measured a maximum head on liner of 73.69". The internal berm by VW-8A is about 3' high. Leachate would need to be flooded in stages 1, 2, 3, 7, and 8 to reach a height of 73.69" at VW-8A. None of the piezometers in stages 1, 2, 3, or 7 registered any head around the same date. This condition cannot be evaluated during winter conditions. The District will be evaluating this condition and the other readings in the spring of 2019.

At this time, the episodes above 12 inches are periodic and have not caused any negative impacts to landfill operations or risk to the environment.

Env-Sw 806.06(d)(2) requires the quantity of leachate collected off the liner systems and transported off-site or treated shall be measured daily. As described previously in the incident report dated March 21, 2018, bypass leachate pumping required for the 2017 Leachate Sewer Improvements project created large amounts of foam in the flume, which ultimately submerged and damaged the flume's ultrasonic level sensor on October 30, 2017. The ultrasonic level sensor was not repaired following the initial damage since bypass pumping was ongoing. A new ultrasonic level sensor was installed on January 15, 2018. However, while responding to the January 18, 2018, leachate release, the Contractor that was assisting the District and Cianbro with leachate-impacted soil removal damaged the flow meter's electrical conduits and power and signal wiring. The District ordered a new flow meter, which was installed on June 29, 2018. Accumulation of sediment in the stilling well prevented flow measurements from December 3 – 10, 2018. As of December 10, 2018 the equipment was operating and the facility is in substantial compliance with the requirement.