



CITY OF LEBANON
DEPARTMENT OF PUBLIC WORKS
193 Dartmouth College Highway
Lebanon, NH 03766

March 5, 2019

Solid Waste Management Bureau
New Hampshire Department of Environmental Services
P.O. Box 95, 29 Hazen Drive
Concord, NH 03302-0095

Annual Facility Report 2018
Lebanon Regional Solid Waste Facility
370 Plainfield Road
Lebanon New Hampshire
Permit No. DES-SW-SP-99-002

This document includes brief descriptions/narrative requested in the 2018 Annual Facility Report. Sections include:

- Inspections
- Facility Operators' Information
- Summary of Environmental Monitoring
- Public Benefit Discussion

Section 5.
Inspections

Facility inspections take place at the Lebanon Solid Waste Facility on regular intervals. Daily Facility Checks are performed by staff. Items checked include: leachate flows, gas flare station, gas well condition, presence of odor, condition of structures, litter and any impacts from wildlife. Equipment operators perform a daily walk around and fluid checks on equipment to ensure safe use.

Weekly "Facility Walk Around" is performed by the facility manager. During the walk around, items inspected include: storm water controls, vegetation growth, litter, cover application, equipment maintenance, fill sequencing, access road conditions and LF gas collection system.

Lebanon Regional Solid Waste Landfill
Annual Facility Report Narrative 2018

All facility components are thoroughly inspected monthly, including:

1. roads;
2. berms;
3. pipes;
4. vaults;
5. valves;
6. tanks;
7. drainage benches and swales;
8. landfill surface;
9. sedimentation ponds;
10. equipment;
11. groundwater monitoring wells; and
12. gas management devices.

Facility Maintenance

Along with regular inspections, staff completes regular maintenance on the landfill and structures. Maintenance includes:

- Mowing the lined and unlined landfills as needed (twice annually at a minimum);
- Jetting leachate collection lines annually;
- Monthly gas well tuning;
- Equipment maintenance;
- Removal of vegetation;
- Litter collection as needed;
- Cleaning out storm water structures; and
- Maintaining all buildings and structures on site as needed.

Repairs are done as needed. Inspections identify areas of concern and repairs are scheduled using either in-house staff or contracted out.

Section 6.

Facility Operator Information

Name	Certificate Number	Expiration Date	Still Working at the Facility as of 12-31-18
Marc Morgan	001521	03/11/19	Yes
Ray Becker	030803	05/12/19	Yes
Lawrence Carpenter	003539	11/01/19	Yes
Ed Denike III	001019	04/17/19	Yes
Bram Litvinoff	003687	04/13/19	No
Shawn Labelle	00455	08/21/19	Yes
Keith Pero	003696	04/13/19	Yes
Josh Stevens	003272	08/20/19	Yes

Section 12.

Summary and Assessment of Environmental Monitoring

Field sampling and services is performed by Eastern Analytical, Inc (EAI). EAI collects samples for monthly BOD, as well quarterly testing for the facility's industrial discharge permit, groundwater permit and for the solid waste permit. This information is used to complete reports, listed below to be submitted to the NHDES.

Sanborn Head and Associates reviews field landfill gas monitoring that is performed by Lebanon Solid Waste staff. This information is used to submit reports to the Air Resources Division of the NHDES.

Monitoring reports submitted in 2018 include:

- Groundwater Monitoring Data Transmittal – April 2018
- Groundwater Monitoring Data Transmittal – July 2018
- Groundwater Monitoring Data Transmittal – November 2018
- Annual Water Quality Summary Report – September 2018
- Landfill Gas Sampling Results Report – July 2018
- Greenhouse Gas Report (submitted to EPA) – March 2018

Section 13.

Public Benefit Discussion

This facility is operated with a limited service area. Participating communities include: 11 towns from New Hampshire (Lyme, Lebanon, Hanover, Enfield, Canaan, Grafton, Orange, Plainfield, Newbury, Orford, and Sutton; and 12 communities in Vermont (Bridgewater, Hartford, Hartland, Norwich, Pomfret, Fairlee, Sharon, Strafford, Thetford, Vershire, West Fairlee, and Woodstock). Written agreements exist for all authorized towns to deliver waste to the Lebanon landfill.

To increase access to recycling options, the City of Lebanon amended their Recycling Facility permit to allow any community to deliver recyclables to the Center. Several residents from participating communities regularly use the Lebanon Recycling Center. Annual communications with participating communities encourage cooperation associated with waste reduction.

Other efforts include participating in regional meetings and training events with the Upper Valley Lake Sunapee Regional Planning Commission. During the fall of 2017, Solid Waste Division staff organized and participated in a regional discussion about the impacts of the global recycling markets on local programs.

To maximize diversion, several Lebanon's participating towns utilize curbside collection of recyclables as well as transfer stations. Efforts to offer food waste composting to the facility customers will continue in 2019. Recently, a local entrepreneur started a food waste collection service.

Staff training continues. Utilizing online courses has increased staffs' access to relevant and timely training. Training such as airspace utilization, LFG management, and fire response have been vital.

If additional information is needed, please contact me at marc.morgan@lebanonnh.gov or by telephone at (603) 298-6486 ex3.

Respectfully submitted,

Marc Morgan
Solid Waste Manager
City of Lebanon

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

Name	Certificate Number	Expiration Date	Still Working at Facility as of December 31?
1. See attached		/ /	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.		/ /	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.		/ /	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.		/ /	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.		/ /	<input type="checkbox"/> Yes <input type="checkbox"/> 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))

Type of Waste

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

<input checked="" type="checkbox"/>	Ash	<input type="checkbox"/>	Electronic Waste	<input type="checkbox"/>	Scrap Metal
<input type="checkbox"/>	Asbestos	<input type="checkbox"/>	Food Waste	<input type="checkbox"/>	White Goods
<input checked="" type="checkbox"/>	Bulky Waste	<input type="checkbox"/>	Infectious Waste	<input type="checkbox"/>	Other: Demo Chips for Cover
<input checked="" type="checkbox"/>	C&D Debris	<input checked="" type="checkbox"/>	Municipal Solid Waste	<input type="checkbox"/>	Other:
<input checked="" type="checkbox"/>	Contaminated Soil	<input type="checkbox"/>	Recyclable Materials	<input type="checkbox"/>	Other:

Quantity of Waste

Quantity of Waste Received		Quantity of Waste Shipped	
Non-Recyclable Waste Received:		Non-Recyclable Waste Shipped:	
From NH Sources	28394 tons	To NH Destinations	tons
From Out-of-State Sources	11625 tons	To Out-of-State Destinations	tons
Total Received	40,019 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

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

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	50 tons	White Goods	tons
Contaminated Soil	0 tons	Other: Demo Chips for Cover	80 tons
Electronic Waste	tons	Other:	
Food Waste	591 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	3,210,580 gallons	3,210,580 gallons	gallons

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

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

<input type="checkbox"/> Burn Pile	<input type="checkbox"/> Refrigerant Removal	<input type="checkbox"/> Swap Shop
<input checked="" type="checkbox"/> Food Waste Composting	<input checked="" type="checkbox"/> Leaf & Yard Waste Composting	<input type="checkbox"/> Other:
<input type="checkbox"/> Used Oil Collection	<input type="checkbox"/> Sharps Collection	<input type="checkbox"/> Other:
<input type="checkbox"/> Used Oil Burner: EPA ID No. NHD		
Universal Waste Collection		
<input type="checkbox"/> Antifreeze	<input type="checkbox"/> Batteries (Rechargeable)	<input type="checkbox"/> Fluorescent Lamps
<input type="checkbox"/> Batteries (Automotive)	<input type="checkbox"/> Cathode Ray Tubes (CRTs)	<input type="checkbox"/> 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

See attached

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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The facility's current operating plan;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All terms and conditions of the facility's permit;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Env-Sw 900 for asbestos, ash, contaminated soils, infectious waste, and/or tires;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Env-Hw 1100 for the management of Universal Wastes;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Env-Hw 807 for the management of Used Oil; and
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.

Signature of the Permittee or Duly Authorized Representative

Date

Marc Morgan

Printed Name

Solid Waste Mgr

Title

This report contains 9 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.

OPTIONAL SURVEY
ANNUAL FACILITY REPORT ACTIVE SOLID WASTE FACILITIES
 Reporting Year 2018

Facility Name: _____

1. Recycling

If you manage recyclable materials at your facility, which recycling system is employed?	<input type="checkbox"/> Single Stream <input type="checkbox"/> Source-Separation Other:
If you manage recyclable materials at your facility, have you recently changed or discontinued any recycling programs because of market conditions?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please explain changes to your program:	

2. Electronic Waste

If you separately manage electronic waste at your facility, how many pounds did you generate in 2018?	_____ lbs.
How much do you pay your vendor (per pound) to recycle electronic waste?	\$_____ per lb.
If you do not manage electronic waste separately at your facility, what are your reasons for not doing so? Please explain:	

3. Paint

Do you separately manage paint at your facility (including stains, varnish)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, how much paint (in gallons or pounds) did you generate in 2018?	_____ gallons or _____ lbs.
How much of the paint generated in 2018 was oil-based?	_____ gallons or _____ lbs.
Do you encourage users of your facility to dry or add bulking agents to latex paint and dispose in MSW?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If you use a vendor to recycle paint, how much did you pay (per gallon or per pound) in 2018?	\$_____ per gallon or \$_____ per lb.
If you do not separately manage paint at your facility, does your community participate in a regional collection event?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, who organizes the collection event?	