



**McMahon
& Mann**
Consulting Engineers, P.C.

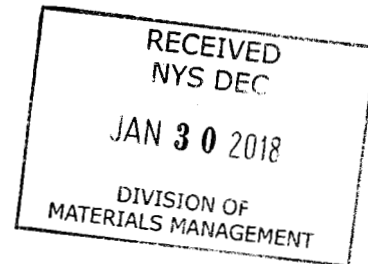
2495 Main Street, Suite 432, Buffalo, NY 14214

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Kaitlyn M. Murray, P.E.

January 24, 2018

File: 95-009

Mr. Greg MacLean
Regional Solid Waste Engineer
New York State Department of Environmental Conservation
Region 8 Office
6274 East Avon-Lima Road
Avon, New York 14414



RE: Monroe Livingston Sanitary Landfill
Facility No. 26S09
2017 Annual & 2nd Semi-Annual Report

Dear Mr. MacLean:

McMahon & Mann Consulting Engineers, P.C., on behalf of Waste Management of New York, LLC (WMNY), is pleased to submit the 2017 Annual Report and the 2nd 2017 Semi-Annual Report for the Monroe Livingston Sanitary Landfill. The following information is provided in accordance with "Final Revised Closure Report and Plans for the Monroe Livingston Sanitary Landfill," prepared by Wehran Engineering, P.C. and dated December 1988. The inspection program, maintenance program, and environmental monitoring program are discussed below.

INSPECTION PROGRAM

Site inspections were conducted monthly by on-site WMNY gas plant personnel (Mr. Ron Chraston) in coordination with WMNY's District Manager-Closed Site Management Group (Mr. Mark DeVine). Items under the closed landfill inspection include:

Access Control – Access is controlled by a 6-foot high fence across the front of the facility and related property. Access to the property is only available through the South Road entrance from 7:30 a.m. to 2:00 p.m.

Vegetation – As of October 31, 1991, the entire 55-acre landfill was capped per the New York State Department of Environmental Conservation (NYSDEC) Approved Closure Plan. Vegetation quality and density appeared to be great across the 55-acre site.

Erosion – No erosion was observed on the landfill cap.

Cracking – No cracking of the landfill cover was observed.

Seepage – No leachate seeps were observed.

Slope Stability – No slope failures were observed.

Disturbance Due to Adverse Weather Events – No unusual occurrences were observed.

Subsidence/Settlement – Little subsidence and settlement was observed on the landfill.

Groundwater Monitoring System – All wells were accessible and secure.

Run-off Control System – Sediment Ponds SP1, SP2, and SP3 appear to be in good working order.

Benchmarks – The original survey benchmarks for the site are intact.

MAINTENANCE PROGRAM

Condition of Cover – As of October 31, 1991, all closure activities at the Monroe Livingston Landfill were complete. The 55-acre landfill was capped in accordance with the NYSDEC approved Closure Plan and the NYSDEC Part 360 regulations in effect at the time. The NYSDEC Certification Approval of the Monroe Livingston Landfill's closure was received on January 21, 1994. The overall condition of the final cover system appeared to be in good condition.

Run-off Control – All surface water drainage systems have been installed in compliance with the above-mentioned closure plan. All surface water drainage controls appeared to be in good working order.

Leachate/Groundwater Collection – Leachate from the southside leachate collection system (installed in 1990) and the eastside berm collection system (installed in 1988) is collected and hauled to the Monroe County Publicly Owned Treatment Works (Monroe County POTW). Landfill gas condensate is also disposed of at the Monroe County POTW. Approximately 201,800 gallons of groundwater/leachate/condensate were disposed of during 2017 (see Table 1).

Groundwater Monitoring – Groundwater monitoring wells B-11D, B-11S, B-15D, B-15S, MW-12D, MW-17D, MW-17S, MW-19D, MW-19S, and MW-20R were observed during semi-annual sampling events. All wells were accessible and secure. The groundwater monitoring well locations are shown on Figure 1.

Surveying – The last topographic survey of the landfill was completed on October 3, 1991.

Access Control – Access to the site has been strictly limited to post-closure activities and is only available through the South Road entrance. Only WMNY personnel have keys to the facility.

ENVIRONMENTAL MONITORING PROGRAM

Groundwater monitoring locations B-11D, B-11S, B-15D, B-15S, MW-12D, MW-17D, MW-17S, MW-19D, MW-19S, and MW-20R, leachate monitoring location MLLA2/Gas Condensate



Composite, groundwater monitoring location MLLA3, and surface water monitoring location Pond 01 were sampled semi-annually. The monitoring point locations are shown on Figure 1. The samples were collected and analyzed by Test America of Buffalo.

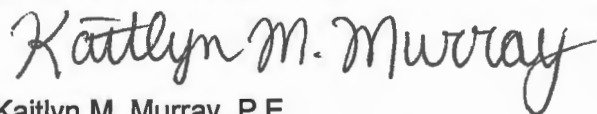
The 1st Semi-Annual 2017 analytical testing data was submitted on July 17, 2017. The 2nd Semi-Annual 2017 analytical testing data is included in Attachment 1 of this report.

WMNY measures the methane concentration at each gas probe on a quarterly basis. The gas probe locations are shown on Figure 1, and the information is provided in Table 2. WMNY continues to inspect the gas monitoring probes and adjust the well field and gas flow to the Power Production Plant in an effort to reduce methane concentrations within the gas probes.

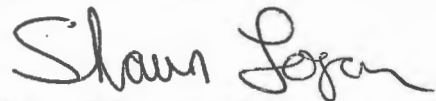
Should you have any questions or require additional information, please call.

Sincerely yours,

McMAHON & MANN CONSULTING ENGINEERS, P.C.



Kaitlyn M. Murray, P.E.



Shawn W. Logan, P.E.

Enclosures

Figure

Tables: Table 1 – Leachate/Condensate Generation Summary

Table 2 – Gas Monitoring Probe Results

Attachment 1: 2nd Semi-Annual 2017 Analytical Reports

Attachment 1a: Groundwater (10 Monitoring Wells)

Attachment 1b: Leachate (MLLA2/Gas Condensate Composite)

Attachment 1c: Groundwater (MLLA3)

Attachment 1d: Surface water (POND01)

cc: NYSDEC – Albany (w/out Attachment 1)

Mark DeVine (WMNY) (PDF via email)

Ron Chraston (WMNY) (w/out Attachment 1)

Wheatland Town Supervisor (w/out Attachment 1)

Wheatland Building Inspector (w/out Attachment 1)

Wheatland Planning Board (w/out Attachment 1)



TABLES

TABLE 1: LEACHATE/CONDENSATE GENERATION SUMMARY
TABLE 2: GAS MONITORING PROBE RESULTS

TABLE 1**MONROE LIVINGSTON LANDFILL
2017 LEACHATE/CONDENSATE GENERATION SUMMARY**

Month 2017	Condensate (Gallons)	Leachate (Gallons)	Southside (Gallons)	Monthly Totals (Gallons)
January	5,400	7,600	0	13,000
February	5,500	7,500	0	13,000
March	0	0	0	0
April	6,600	13,200	0	19,800
May	9,500	23,000	0	32,500
June	6,000	20,000	0	26,000
July	0	13,000	0	13,000
August	5,600	13,900	0	19,500
September	5,700	13,800	0	19,500
October	5,500	7,500	0	13,000
November	0	6,500	0	6,500
December	7,800	18,200	0	26,000
2017 Totals	57,600	144,200	0	201,800

Table Notes: 1. Condensate and leachate volumes based on measurements provided by WMNY.

TABLE 2

**MONROE LIVINGSTON LANDFILL
2017 GAS MONITORING PROBE RESULTS**

Gas Probe	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
	2/28/2017	5/24/2017	8/11/2017	10/2/2017
	(% Methane)	(% Methane)	(% Methane)	(% Methane)
GP-1	0.00	0.00	0.00	0.00
GP-2	0.00	0.00	0.00	0.00
GP-3	0.00	0.00	0.00	0.00
GP-4	49.50	0.00	1.70	53.10
GP-5	11.50	0.00	29.30	0.30
GP-6	0.00	0.00	0.00	0.00
GP-7	0.00	0.00	0.00	0.00
GP-8	0.00	0.00	0.00	0.00
GP-9	0.30	0.20	0.00	0.00
GP-10	0.00	0.00	0.00	0.00
GP-11	0.00	0.00	0.00	0.00
GP-12	0.00	0.00	0.00	0.00
GP-13	0.00	0.00	0.00	0.00
GP-14	0.00	0.00	0.00	0.00
GP-15	0.00	0.00	0.00	0.00
GP-16	0.00	0.00	0.00	0.00
GP-17	0.00	0.00	0.00	0.00
GP-18	0.00	0.00	0.00	0.00
GP-20	0.00	0.00	0.00	0.00
GP-21	0.00	0.00	0.00	0.00
GP-22	0.00	0.00	0.00	0.00
Pipeline E	0.00	0.00	0.00	0.00
Pipeline W	0.00	0.00	0.00	0.00
Pipeline S	0.00	0.00	0.00	0.00
Pipeline N	0.00	0.00	0.00	0.00

Table Notes: 1. Methane concentrations based on measurements provided by WMNY.



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January 16, 2018
File: 95-009

Mr. Greg MacLean
Regional Solid Waste Engineer
New York State Department of Environmental Conservation
Region 8 Office
6274 East Avon-Lima Road
Avon, New York 14414

RE: Monroe Livingston Power Production Plant
Permit No. NYSDEC #8-2656-00008/00001-0 (SWMF28E01)
2017 Annual Report

Dear Mr. MacLean:

McMahon & Mann Consulting Engineers, P.C., on behalf of Waste Management of New York, LLC (WMNY), is pleased to submit the 2017 Annual Report for the Monroe Livingston Power Production Plant. The following information is provided to document the operation of the Monroe Livingston Power Production Plant in conformance to the New York State Department of Environmental Conservation (NYSDEC) requirements.

The location of the power production plant is shown on Figure 1, as are the monitoring points and other site features.

A. Summary of Noise Monitoring Data:

Noise level measurements were performed around the perimeter of the property on a semi-annual basis during 2017 and indicated an average ambient noise level range between 43.7 and 46.1 dBA.

B. Quantity of Landfill Gas Recovered (2017):

190,604,000 standard cubic feet

**MONROE LIVINGSTON LANDFILL
2017 GAS MONITORING PROBE RESULTS**

Gas Probe	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
	2/23/2017	5/24/2017	8/11/2017	10/2/2017
	(% Methane)	(% Methane)	(% Methane)	(% Methane)
GP01	0.00	0.00	0.00	0.00
GP02	0.00	0.00	0.00	0.00
GP03	0.00	0.00	0.00	0.00
GP04	49.50	0.00	1.70	53.10
GP05	11.50	0.00	29.30	0.30
GP06	0.00	0.00	0.00	0.00
GP07	0.00	0.00	0.00	0.00
GP08	0.00	0.00	0.00	0.00
GP09	0.30	0.20	0.00	0.00
GP10	0.00	0.00	0.00	0.00
GP11	0.00	0.00	0.00	0.00
GP12	0.00	0.00	0.00	0.00
GP13	0.00	0.00	0.00	0.00
GP14	0.00	0.00	0.00	0.00
GP15	0.00	0.00	0.00	0.00
GP16	0.00	0.00	0.00	0.00
GP17	0.00	0.00	0.00	0.00
GP18	0.00	0.00	0.00	0.00
GP20	0.00	0.00	0.00	0.00
GP21	0.00	0.00	0.00	0.00
GP22	0.00	0.00	0.00	0.00
Pipeline E	0.00	0.00	0.00	0.00
Pipeline W	0.00	0.00	0.00	0.00
Pipeline S	0.00	0.00	0.00	0.00
Pipeline N	0.00	0.00	0.00	0.00

Table Note: 1. Methane concentrations based on measurements provided by WMNY.

ATTACHMENT 4

NYSDEC LANDFILL GAS RECOVERY FACILITIES ANNUAL REPORT FORM

LANDFILL GAS RECOVERY FACILITY

New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials
Albany, New York 12233-7258

LANDFILL GAS RECOVERY FACILITY

Annual/Quarterly Report

For use of this form as an Annual Report, complete line A and complete all Sections. The Annual Report form is to be used to meet annual reporting requirements (excluding results from annual sampling events which require the use of the Quarterly Report form as noted in the following paragraph). Submit the Annual Report no later than 60 calendar days after the first day of January following each year of operation.

For use of this form as a Quarterly Report, complete line B and complete Sections 1 and 4 through 7. The Quarterly Report form is to be used for reporting of quarterly or annual results from each sampling event without regard for whether the sampling event is required on a quarterly or annual basis. Quarterly reporting is required for the first year of the facility's operation, with annual reporting thereafter. Submit the Quarterly Report no later than 60 days after the last day of each calendar quarter or within 90 days of the conclusion of sample collection if Site Analytical Plan requirements must be met.

For use of this form as a combined Annual Report and a Quarter 4 Report, complete both lines A and B and complete all Sections.

Reporting of the information indicated on this Landfill Gas Recovery Facility Annual/Quarterly Report form is required pursuant to 6 NYCRR 360-1.4(c); 360-2.11(d)(6); 360-2.16(e)(3), (e)(4), and (e)(6). Failure to provide the required information requested is a violation of Environmental Conservation Law. Timely submission of a properly completed form to both the office of the Department administering the Region in which the facility is located and to the Department's Central Office is required to meet the standard Annual/Quarterly Report requirements of 6 NYCRR Part 360.

Where the standard Annual/Quarterly Report requirements for a landfill gas recovery facility have been waived, Sections 1 and 6 must be completed and submitted with a copy of the Department's written notification which allows the waiver.

Where the standard Annual/Quarterly Report requirements have been modified, appropriate Sections (as necessary to reflect the modification) must be completed and submitted with a copy of the Department's written notification which allows the modification.

Entries on the report forms should be either typewritten or neatly printed in black ink. Attach additional sheets if space on the pages is insufficient or supplementary information is required or appropriate.

Please note that where reference is made to a "Quarter" such as in line B, Quarter 1 is from January 1st to March 31st, Quarter 2 is from April 1st to June 30th, Quarter 3 is from July 1st to September 30th and Quarter 4 is from October 1st to December 31st.

This form may be reproduced locally as required.

LANDFILL GAS RECOVERY FACILITY ANNUAL/QUARTERLY REPORT

New York State Department of Environmental Conservation (NYSDEC)
Division of Solid Waste

- A. Annual Report for the year of operation from January 1, 2017 to December 31, 2017.
 B. Quarterly Report for _____

SECTION 1 Owner/Facility Information

Facility Name: Monroe Livingston Power Production Plant
 NYSDEC Facility Code #: #SWMF28E01
 Town: Wheatland County: Monroe NYSDEC Region: 8
 360 Permit #: 8-2656-00008/00001-0
 NYSDEC Facility Registration: #28205
 Owner Name: Waste Management of NY, LLC Phone: (603) 929-5436
 Mailing Address: 4 Liberty Lane West, Hampton, New Hampshire, 03842
 Operator Name: Waste Management of NY, LLC Phone: (603) 929-5436
 Mailing Address: 4 Liberty Lane West, Hampton, New Hampshire, 03842

SECTION 2 Quantities

Provide the following information:

2017	Facility Operation (Hours)**	Landfill Gas Recovered (Cu. Ft.)	Condensate Generated (Gallons)	Steam* Generated (Cu. Ft.)	Electricity* Generated (K.W.H.)	Low BTU/Pipeline Quality Gas* Produced (Cu. Ft.)
Jan.	718.5	16,713,000	5,400	NA	653,049	NA
Feb.	671.7	14,927,000	5,500	NA	586,893	NA
March	739.3	15,766,000	0	NA	603,222	NA
April	674	13,750,000	6,600	NA	543,180	NA
May	743.5	15,656,000	9,500	NA	622,302	NA
June	719.8	15,623,000	6,000	NA	580,236	NA
July	743.3	16,004,000	0	NA	571,689	NA
Aug.	740.4	16,266,000	5,600	NA	651,729	NA
Sept.	715.9	16,070,000	5,700	NA	639,480	NA
Oct.	743.6	16,888,000	5,500	NA	692,229	NA
Nov.	720.3	16,043,000	0	NA	701,100	NA
Dec.	743.7	16,898,000	7,800	NA	732,099	NA
ANNUAL TOTAL	8,674	190,604,000	57,600	NA	7,577,208	NA

* Provide where applicable. ** Based on individual engine maximum run time per month.

Normal Weekdays of Operation: 7 Normal Hours of Operation: 24

Identify all full- and part-time employees, their titles and the months during which each was employed:

Ron Chraston - Plant Manager - January through December 2017

Describe the collection, storage, treatment and disposal techniques used in managing the condensate:

All condensate is collected in three (3) underground storage tanks (one 6,000 gallon and two 2,000 gallon tanks). Condensate is removed from the tanks and hauled to Monroe County POTW for disposal (Van Lare).

Provide a summary, compiled on a monthly basis, of the sampling data:

Annual condensate monitoring (through calendar year 2017).

Quarterly condensate analytical testing results for 2017 are included in Attachment 1.

List required submissions that have been attached to this form or the reasons for not attaching a required piece of information:

SECTION 3

Landfill Gas Recovery Facility/Landfill Data (To Be Optionally Provided)

Landfill Gas Recovery Facility (LGRF) Data:

Original capital cost of LGRF: \$ _____ Cost Year _____

Annual operation and maintenance cost for calendar year: \$ _____

Does the LGRF experience shut downs: _____ Yes _____ No

If yes, indicate reasons for shut downs. List required submissions that have been attached to this form or the reasons for not attaching a required piece of information:

Number of turbine driven generators: _____ Manufacturer: _____

Number of internal combustion driven generators: 2 Manufacturer: Caterpillar
Landfill Data: _____

Landfill owner: _____ Total landfill acreage: _____

Landfill acres with landfill gas recovery: _____ Number of wells: 30
Year landfill opened: _____ Anticipated landfill closure date: 10/31/91

SECTION 4
Results of Condensate Sampling

Submit (attached to this form) condensate quality monitoring results accomplished in accordance with condensate sampling. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Quarterly condensate analytical testing results are included in Attachment 1.

SECTION 5
Data Quality Assessment

Submit (attached to this form) any required data quality assessment reports. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

No NYSDEC data quality assessment requirement.

SECTION 6
Permit/Consent Order Reporting Requirements

Are there any additional permit/consent order reporting requirements not covered by the previous sections of this form? _____ Yes X No

If yes, identify the reporting requirements with their respective responses below, attaching additional sheets as necessary. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information.

SECTION 7
Signature and Date By Owner or Operator

Owner or Operator must sign, date and submit one completed form with an original signature to:

New York State Department of Environmental Conservation
 Division of Solid & Hazardous Materials
 Bureau of Municipal Waste Permitting
 50 Wolf Road
 Albany, New York 12233-4013

and one copy with an original signature to the appropriate Regional Solid Waste Engineer (RSWE). (See attached Regional Map for Regional Office Information).

I hereby swear or affirm that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief.

<u>Mark P. DeVine</u> Signature	<u>1/16/18</u> Date
<u>Mark DeVine</u> Name (Print or Type)	<u>District Manager</u> Title (Print or Type)
<u>4 Liberty Lane West</u> Address	<u>Hampton</u> City
<u>NH 03842</u> State and Zip	<u>(603) 929-5436</u> Phone Number

ATTACHMENTS: X YES NO
 (Please check appropriate line)

New York State Department of Environmental Conservation Regional Offices



Region 1 Suffolk and Nassau counties (631) 444-0204

Region 2 Manhattan, Bronx, Queens, Brooklyn and Staten Island (718) 482-4900

Region 3 Sullivan, Ulster, Orange, Dutchess, Putnam, Rockland and Westchester counties (845) 256-3000

Region 4 Montgomery, Otsego, Delaware, Schoharie, Schenectady, Albany, Greene, Rensselaer and Columbia counties (518) 357-2234

Region 5 Franklin, Clinton, Essex, Hamilton, Warren, Fulton, Saratoga and Washington counties (518) 897-1200

Region 6 Jefferson, St. Lawrence, Lewis, Oneida and Herkimer counties (315) 785-2239

Region 7 Oswego, Cayuga, Onondaga, Madison, Tompkins, Cortland, Chenango, Tioga and Broome counties (315) 426-7400

Region 8 Orleans, Monroe, Wayne, Genesee, Livingston, Ontario, Yates, Seneca, Steuben, Schuyler and Chemung counties (585) 226-2466

Region 9 Niagara, Erie, Wyoming, Chautauqua, Cattaraugus and Allegany counties (716) 851-7000