I. 2016 General Information Form

Facility Information **January 1-December 31, 2016** *Permit/Registration #* CPC-021522

County: Los Alamos County Check One: ☐ Open Facility ☑ Closed Facility

Facility Name Los Alamos County Landfill Phone (505) 662-8163

Contact Person Angelica Gurule E-Mail Address angelica.gurule@lacnm.us

Facility Mailing Address 3701 E. Jemez Road

City: Los Alamos State: NM Zip Code: 87544

Physical Location of Facility (City/County Road) 3701 E. Jemez Road, Los Alamos NM 87544

Facility Operator Los Alamos County Phone (505) 662-8163

Contact Person Angelica Gurule E-mail Address angelica.gurule@lacnm.us

Mailing Address 3701 E. Jemez Road

City Los Alamos State: NM Zip Code: 87544

Facility Owner SAME AS ABOVE Phone

Contact Person E-mail Address

Mailing Address

City State: Zip Code:

Land Owner Department of Energy Phone

Contact Person Lee Ledoux E-mail Address

Mailing Address Los Alamos Site Office/NNSA/528 35th Street

City Los Alamos State: NM Zip Code: 87544

Financial Assurance

☑ Check One Box

☑ Updated Financial Assurance Attached

☐ Financial Assurance required but not Attached (Explain on Comment Sheet)

☐ Financial Assurance not required (Explain on Comment Sheet)

Questions? Call 505-827-0129

Landfills Only

Check One: ☐ Open Landfill ☑ Closed Landfill

Capacity Information for Open Landfills ***(If not provided- explain on Comment Sheet)***

Provide Landfill Capacity **Used** during 2016 0 (Cubic Yards)

Provide **Remaining** Landfill Capacity 0 (Cubic Yards) (See *V. Capacity Worksheet*.)

Provide **Remaining** Landfill Life 0 (Years) (See *V. Capacity Worksheet*.)

Number of acres at current site, not permitted, that could be used for diposal in the future

Were there any changes in operations that reduced the active life of the landfill by 25% or more?

☐ No ☐ Yes (Attach Notification)

Monitoring Results for Open Landfills (and Closed Landfill in Post-Closure Care)

☐ **No** ☑ **Yes** Summary of Landfill Gas Monitoring Results Enclosed (if not explain on Comment Sheet)

☑ **No** ☐ **Yes** Summary of Landfill Ground Water Monitoring Results Enclosed (if not explain on Comment Sheet)

☑ **No** ☐ **Yes** Summary of Leachate Generated & Treated or Disposed Enclosed (if not explain on Comment Sheet)

Closure and Post-Closure Activity Date of Closure Dec-11

Total Acreage Used for Disposal (as of 12/31/16) 35.3 (Acres)

Intermediate Cover (Acres) Area Seeded (Acres)

Total Acreage with Final Cover Installed (per Closure Plan) 35.3 (Acres)

II. 2016 Material and Solid Waste Management Form

Facility Name: Los Alamos County Landfill		PRINT Name, Title and Telephone # of the Person Completing Form: Angelica Gurule, Environmental Services Manager, (505) 662-8163
County: Los Alamos	Permit or Registration # CPC-021522	Facility Type: ☑ Landfill ☐ Recycling ☐ Composting ☐ Transfer/Convenience Center

	Material Type (See Instructions)	Method (☒ Mark One) Weighed	Method (☒ Mark One) Estimated	Waste Origin: Amount of In-State Material Received in Tons (a)	Waste Origin: Amount Out-of-State Materials Received in Tons (b)	Managed On-Site: Landfilled or Treated (c)	Managed On-Site: Recycled, Composted or Mulched (d)	Managed On-Site: Beneficially Used (e)	Sent Off-Site to be: Treated, Disposed, Incinerated (f)	Sent Off-Site to be: Recycled, Mulched, Composted (g)	Sent Off-Site to be: Beneficially Used (h)	Sent to: Provide Facility Name, City and State (i)
1	MSW											
2	C & D											
3	Clean Fill											
Special Wastes:												
4	Industrial Waste											
5	Regulated Asbestos											
6	Infectious Waste											
7	Ash											
8	PCS											
9	Offal											
10	Bio-Solids (Treated Sewage Sludge)											
11	Other Sludges											
12	Other Special Waste											
Other Materials:												
13	Brush/Green Waste											
14	Scrap Tires											
15	Motor Oil											
16	Antifreeze											
17	Lead Acid Batteries											
18	HHW											
19	Other Wastes											
20	**TOTAL TONS**											

Questions?
Call 505-827-0129

III. 2016 Recyclable Materials Form

Facility Name: Los Alamos County Landfill			**PRINT** Name, Title & Telephone # of Person Completing Form: Angelica Gurule, Environmental Services Manager, (505) 662-8163
County: Los Alamos	Permit or Registration # CPC-021522		Facility Type: ☑ Landfill ☐ Recycling ☐ Composting ☐ Transfer/Convenience Center

	Type of Recyclable	Method ☒ Mark One: Weighed	Method ☒ Mark One: Estimated	Material Origin: Amount of In-State Materials Received in **Tons** (a)	Material Origin: Amount of Out-of-State Materials Received in **Tons** (b)	Managed On-Site: (c) Beneficially Used or Re-used	Sent Off-Site to be: (d) Recycled or Processed	Sent Off-Site to be: (e) Beneficially Used	Facility sent to: (f) Provide Facility Name and City/State
Paper:									
1	Mixed Paper								
2	Cardboard (OCC)								
3	Newspaper (ONP)								
4	Office Paper								
5	Phone Books								
6	Chip Board								
Containers:									
7	Plastics								
8	Aluminum								
9	Steel Cans								
10	Glass								
11	Mixed Containers								
Other Materials:									
12	Scrap Metals/ White Goods								
13	Carpet Padding								
14	Pallets								
15	Electronic Scrap								
16	Plastic Films								
17	Other Plastics								
18	Household Items								
19	Textiles/Clothing								
20	Other or Commingled Materials								
21	**TOTAL**								

Questions?
Call 505-827-0129

2016 Additional Comments

Name of Facility:	Los Alamos County Landfill
Name of Person completing form:	Angelica Gurule

Names of Certified Operators at Facility:
Recycling - Angelica Gurule, Leonard Martinez, Derrick Voight, Chris Ocana
Transfer Station - Joshua Levings, Chris Ocana, Leonard Martinez, Terrance Gray, Andy Broadus, Eric Lopez
Transfer Station - Derrick Voight, Angelica Gurule, Joseph Baca, Donald Baros and Anthony Sargent
Landfill - Angelica Gurule, Derrick Voight and Terrance Gray

Average *Landfill* Tipping Fees:		**Average *Transfer Station* Tipping Fees:**	
MSW:		MSW:	$64/Ton
Tires:		Tires:	$200/Ton
Special Waste:			

To Be Completed by Facilities Accepting and *Storing* Tires:			
Number of tires stored onsite at the **beginning** of calendar year *(January 1, 2016)*:		Number of tires stored onsite at the ***end*** of calendar year *(December 31, 2016)*:	
Passenger Tires:		Passenger Tires:	
Truck Tires:		Truck Tires:	
Tire Bales:		Bales:	

Financial Assurance not enclosed because:
Financial Assurance is enclosed.

General Comments:

Landfill Information Only:

Gas Monitoring Results not enclosed because:
Landfil gas is monitored on a weekly basis. Quarterly reports are submitted to NMED. Landfill methane gas levels are currently exceeding lower explosive limit and mitigation efforts are underway as reported to NMED-SWB Attached is the most recent monthly update to Mrs. Auralie Ashley Marx.

Ground Water Monitoring Results not enclosed because:
It is is not required as part of final approved closure plan.

Leachate Generation Report not enclosed because:
It is is not required as part of the final approved closure plan.

Capacity Information not provided because:
The landfill is closed and no longer accepts waste for landfill.

LOS ALAMOS

Finance

24 Jan 2017

Mrs. Auralie Ashley-Marx
Chief of the NMED Solid Waste Bureau
Harold Runnels Building
1190 St. Francis Drive
Santa Fe, NM 87502

Dear Mrs. Ashley-Marx:

This letter supports this local government's use of the local government financial test to determine financial assurance, as specified in the New Mexico Solid Waste Rules.

1. This local government is the operator of the following facility for which financial assurance for closure, post closure, and Phase I and Phase II assessment is demonstrated through the local government financial test specified in the New Mexico Solid Waste Management Regulations. The current closure, post closure, and Phase I and Phase II assessment cost estimates covered by the test for this facility are as follows:

Closure cost	$	3,090,000
Additional closure cost		1,351,521
30-year post-closure cost		276,269
Phase I and Phase II assessment cost		-
Transfer station		50,378
Life-to-date closure expenditures		(4,277,934)
Total	$	490,324

2. This local government guarantees, through the local government guarantee specified in the New Mexico Solid Waste Rules, the closure, post closure, Phase I and Phase II assessment, and/or corrective action of the following facilities operated by this local government. The current cost estimates for the closure, post closure, Phase I and Phase II assessment, and/or corrective action so guaranteed as shown for each facility:

Not Applicable

1000 Central Avenue, Suite 300
Los Alamos, NM 87544
P 505.662.8060 F 505.662.8069

losalamosnm.us

3. This local government assures, through the local government financial test for UIC facilities under 40 CFR 144.62, petroleum underground storage tank facilities under 40 CFR part 280, PCB storage facilities under 40 CFR part 761, and hazardous waste treatment, storage and disposal facilities under 40 CFR parts 264 and 265, the following facilities operated by this local government. The current cost estimates for the facility(ies) so assured are shown for each facility:

Not Applicable

4. The fiscal year of this local government ends on June 30. The figures for the following items marked with an asterisk are derived from this local government's independently audited year-end financial statements for the latest completed fiscal year ended June 30, 2015, and reflect all County operations except those of the Joint Utility System and the Pension Trust Fund.

ALTERNATIVE II

*1.	Sum of current amounts guaranteed using the financial test (total of all cost estimates shown in paragraphs 1, 2, and 3 above)	$ 490,324
*2.	Sum of current closure, post closure, Phase I and Phase II assessment, and/or corrective action (total of all cost estimates shown in paragraphs 1 and 2 above)	490,324
*3.	Sum of cash and marketable securities	80,959,349
*4.	Total expenditures	93,011,403
*5.	Total annual debt service	6,629,109
*6.	Total long-term debt issued and outstanding	52,221,530
*7.	Total capital expenditures	12,946,317
*8.	Total annual revenue	86,140,947

*9. Are the financial statements prepared in conformity with Generally Accepted Accounting Principles?

Yes __X__ No _____

10. Is line 1 less than forty-three percent (43%) of line 8?

Yes __X__ No _____

11. Is line 3 greater than or equal to 0.05 of line 4?

Yes __X__ No _____

12. Is line 5 less than or equal to 0.20 of line 4?

Yes __X__ No _____

13. Is line 6 less than or equal to 2.00 of line 7?

Yes _____ No __X__

14. Is the local government currently in default on any outstanding general obligation bonds?

Yes _____ No __X__

15. Does the local government have any outstanding general obligation bonds rated lower than Baa as issued by Moody's or BBB as issued by Standard and Poor's?

Yes _____ No __X__

16. Has the local government operated at a deficit greater than five percent (5%) of total revenue in either of the past two fiscal years?

Yes _____ No __X__

17. Has the local government received an adverse opinion, disclaimer of opinion, or other qualified opinion from the independent public accountant or appropriate State agency auditing its financial statements?

Yes _____ No __X__

I hereby certify the contents of this letter are consistent with the requirements of the New Mexico Solid Waste Rules as of June 30, 2016.

Sincerely,

Joseph A. D'Anna

Chief Financial Officer

Gurule, Angelica

From:	Pincus, Marcia <MPincus@scsengineers.com>
Sent:	Friday, January 27, 2017 10:22 AM
To:	Ashley-Marx, Auralie, NMENV (Auralie.Ashley-Marx@state.nm.us)
Cc:	Gurule, Angelica; Mezzacappa, David; Lewallen, Jason
Subject:	Jan 2017 Gas Probe and LFG Vent Readings for Los Alamos Conuty LF
Attachments:	LAC DATA SUMMARY THRU JANUARY 2017 rvs map 012717.xlsx

Hi Auralie!

A summary of the Gas Probes and LFG Vent wells readings for January 2017 for Los Alamos Landfill are as follows:

LFG Vents: All the vents increased in methane concentrations during this monitoring event. The methane concentrations ranged from 42.3 to 57.1 percent gas in air (volume).

Gas Probes: All the Gas Probes increased in methane concentrations during this monitoring event. The methane concentrations ranged from 11.1 to 44.3 percent gas in air (volume).

The Perimeter Gas Probes (MP-8R, MP-9R etc.): Of the five perimeter probes only two probes, MP-9R and MP-12R, were less than 5 percent methane, the remainder of the probes ranged in methane concentrations from 7.2 to 25.4 percent gas in air (volume).

Please contact Angelica or me, if you have any questions/comments concerning the above data.

Have a great weekend!

Marcia A. Pincus, P.E.
Project Manager
Mountain Area Manager
SCS Field Services
3351 Candelaria Road NE; Suite D
Albuquerque, New Mexico 87107

Los Alamos County
LFG Extraction System
thru January 2017

Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
Blower Inlet	12/17/14	12:54	39.2	31.6	5.9	23.3	-2.74	
Blower Inlet	12/22/14	11:34	52.4	41.0	0.6	6.0	-2.83	
Blower Inlet	12/22/14	15:21	52.2	42.5	0.3	5.0	-3.19	
Blower Inlet	1/7/15	12:33	45.1	37.5	1.9	15.5	-3.33	
Blower Inlet	1/7/15	16:36	46.3	36.8	1.4	15.5	-3.61	
Blower Inlet	1/7/15	16:38	46.3	35.2	1.4	17.1	-3.90	
Blower Inlet	1/21/15	12:11	51.2	40.2	0.6	8.0	-3.92	
Blower Inlet	2/3/15	12:22	54.0	39.2	1.2	5.6	-3.75	
Blower Inlet	2/5/15	15:01	42.3	34.8	0.6	22.3	-4.69	
Blower Inlet	3/6/15	12:22	36.9	29.5	7.1	26.5	-5.56	
Blower Inlet	3/6/15	14:12	31.8	25.9	8.7	33.6	-5.65	
Blower Inlet	3/6/15	14:33	29.9	24.0	9.3	36.8	-5.04	Lowered vacuum
Blower Inlet	4/21/15	11:37	28.1	24.0	8.8	39.1	-4.42	Lateral to MP-11 broken; repaired and LFG concentrations arose
Blower Inlet	4/21/15	14:20	47.9	39.5	0.5	12.1	-4.32	
Blower Inlet	5/29/15	10:25	44.4	40.2	0.2	15.2	-4.80	Relative pressure obtained using handheld digital manometer
Blower Inlet	6/30/15	10:54	42.2	38.2	0.7	18.9	-4.69	
Blower Inlet	6/30/15	10:56	41.8	37.7	0.9	19.6	-0.05	
Blower Inlet	6/30/15	13:32	43.8	38.7	0.6	16.9	-4.44	Increased vacuum from -4.44 inches to -5.07 inches
Blower Inlet	6/30/15	13:36	44.0	38.9	0.5	16.6	-5.07	
Blower Inlet	7/30/15	11:47	41.9	38.0	1.1	19.0	-5.59	
Blower Inlet	8/18/15	14:21	47.7	36.0	0.8	15.5	-4.92	
Blower Inlet	9/10/15	9:51	42.3	36.4	1.1	20.2	-5.26	Relocated Extraction Piping to South of Swale
Blower Inlet	9/10/15	10:28	42.5	37.0	1.2	19.3	-5.02	
Blower Inlet	10/15/15	12:53	42.9	37.5	1.5	18.1	-5.31	
Blower Inlet	10/15/15	12:57	42.8	37.6	1.4	18.2	-6.20	
Blower Inlet	11/12/15	13:33	47.8	38.8	1.2	12.2	-7.19	
Blower Inlet	12/30/15	NA	NA	NA	NA	NA	NA	No inlet port ; switched blowers tech did not have extra sample port
Blower Inlet	1/15/16	12:19	44.8	33.6	3.6	18.0	-9.19	
Blower Inlet	2/24/16	16:19	30.4	26.0	6.2	37.4	-5.90	
Blower Inlet	2/24/16	17:29	29.3	25.9	6.2	38.6	-6.07	
Blower Inlet	3/24/16	11:23	14.1	7.4	16.4	62.1	-7.24	
Blower Inlet	3/24/16	12:43	29.3	25.1	7.4	38.2	-7.27	
Blower Inlet	4/25/16	15:01	41.1	33.9	3.3	21.7	N/A	
Blower Inlet	4/25/16	16:36	42.1	34.9	3.0	20.0	-6.44	
Blower Inlet	5/25/16	9:00	35.9	31.5	3.6	29.0	N/A	
Blower Inlet	6/14/16	13:29	32.0	28.1	3.8	36.1	-5.49	
Blower Inlet	7/15/16	11:03	32.5	29.3	4.7	33.5	-4.90	
Blower Inlet	7/15/16	13:48	32.5	31.1	4.7	31.7	-5.14	
Blower Inlet	8/19/16	11:00	38.1	31.7	4.2	26.0	-5.68	
Blower Inlet	8/19/16	14:15	38.0	32.5	3.8	25.7	-5.52	
Blower Inlet	9/16/16	10:47	36.0	32.5	3.7	27.8	-7.25	
Blower Inlet	9/16/16	14:57	36.3	32.1	3.6	28.0	-6.38	
Blower Inlet	10/7/16	10:01	35.3	32.7	3.2	28.8	-7.59	
Blower Inlet	10/7/16	11:26	34.4	31.4	3.6	30.6	-7.75	
Blower Inlet	11/22/16	15:23	36.5	31.8	2.6	29.1	-7.94	
Blower Inlet	11/22/16	16:42	34.7	32.7	3.5	29.1	-10.20	
Blower Inlet	12/14/16	10:03	35.2	30.9	3.7	30.2	-8.09	
Blower Inlet	12/14/16	12:56	33.6	29.9	3.1	33.4	-8.20	
Blower Inlet	1/20/17	13:24	41.6	32.9	2.7	22.8	-10.75	

Los Alamos County
LFG Extraction System
thru January 2017

Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
LFG VENT 2	12/17/14	13:52	54.2	42.1	0.7	3.0	-1.56	
LFG VENT 2	12/22/14	14:22	56.8	43.2	0.0	0.0	-1.54	
LFG VENT 2	1/7/15	15:12	55.8	41.4	0.4	2.4	-1.69	
LFG VENT 2	1/21/15	12:36	57.1	42.6	0.0	0.3	-0.26	
LFG VENT 2	2/5/15	16:38	51.0	37.3	0.1	11.6	-0.25	
LFG VENT 2	3/6/15	13:52	53.9	40.7	1.1	4.3	-1.84	
LFG VENT 2	4/21/15	13:06	56.7	43.2	0.1	0.0	-2.99	
LFG VENT 2	5/29/15	11:42	55.7	44.3	0.0	0.0	-3.00	Relative pressure obtained using handheld digital manometer
LFG VENT 2	6/30/15	12:26	55.4	44.6	0.0	0.0	-3.55	
LFG VENT 2	7/30/15	12:33	53.5	46.5	0.0	0.0	-4.64	
LFG VENT 2	8/18/15	13:06	54.9	42.6	0.0	2.5	-3.99	
LFG VENT 2	9/10/15	9:20	55.3	42.6	0.1	2.0	-4.32	
LFG VENT 2	10/15/15	14:20	56.1	43.7	0.1	0.1	-2.22	
LFG VENT 2	11/12/15	14:47	56.4	43.6	0.0	0.0	-3.61	
LFG VENT 2	12/30/15	19:17	57.6	41.8	0.6	0.0	-0.89	Portions of LFG piping frozen
LFG VENT 2	1/15/16	12:38	50.9	36.1	2.9	10.1	-7.00	
LFG VENT 2	2/24/16	17:03	48.2	38.1	0.4	13.3	-3.43	
LFG VENT 2	3/24/16	12:20	41.1	30.9	6.1	21.9	-3.13	
LFG VENT 2	4/25/16	15:49	57.3	42.6	0.1	0.0	-3.45	
LFG VENT 2	5/25/16	9:31	57.2	42.8	0.0	0.0	-4.82	
LFG VENT 2	6/14/16	14:47	55.3	40.6	0.0	4.1	-3.86	
LFG VENT 2	7/15/16	13:09	53.6	46.4	0.0	0.0	-3.91	
LFG VENT 2	8/19/16	11:54	47.1	37.2	3.0	12.7	-4.42	
LFG VENT 2	9/16/16	10:55	55.7	43.6	0.2	0.5	-5.14	
LFG VENT 2	10/7/16	11:08	55.3	42.6	0.7	1.4	-4.94	
LFG VENT 2	11/22/16	16:30	55.5	44.2	0.0	0.3	-5.89	
LFG VENT 2	12/14/16	11:26	54.3	41.1	0.5	4.1	-5.34	
LFG VENT 2	1/20/17	14:06	57.1	36.0	2.2	4.7	-5.56	
LFG VENT 3	12/17/14	13:55	51.0	39.4	0.2	9.4	-1.90	
LFG VENT 3	12/22/14	14:19	53.3	39.5	0.6	6.6	-1.53	
LFG VENT 3	1/7/15	14:55	45.5	35.4	2.4	16.7	-1.61	
LFG VENT 3	1/21/15	13:31	50.3	39.5	0.0	10.2	-0.18	
LFG VENT 3	2/5/15	16:30	45.6	35.2	0.1	19.1	-0.22	
LFG VENT 3	3/6/15	13:44	47.5	35.9	3.2	13.4	-2.19	Decreased and opened only 1/4 turn
LFG VENT 3	3/6/15	13:47	48.6	36.8	2.7	11.9	-1.54	
LFG VENT 3	4/21/15	13:03	46.6	39.6	1.2	12.6	-1.75	Open valve for gas probe
LFG VENT 3	5/29/15	11:38	50.0	43.2	0.0	6.8	-3.40	Relative pressure obtained using handheld digital manometer
LFG VENT 3	6/30/15	12:21	49.4	44.3	0.3	6.0	-3.50	
LFG VENT 3	7/30/15	12:30	51.3	46.3	0.1	2.3	-4.70	
LFG VENT 3	8/18/15	13:09	52.0	43.1	0.1	4.8	-3.92	
LFG VENT 3	9/10/15	9:23	48.4	42.6	0.8	8.2	-4.23	
LFG VENT 3	10/15/15	14:17	51.1	43.5	0.7	4.7	-2.25	
LFG VENT 3	11/12/15	14:44	53.3	44.0	0.2	2.5	-2.70	
LFG VENT 3	12/30/15	19:13	52.5	39.3	1.7	6.5	-0.83	Portions of LFG piping frozen
LFG VENT 3	1/15/16	11:14	43.9	32.2	4.9	19.0	-6.89	
LFG VENT 3	2/24/16	17:01	45.0	36.7	0.9	17.4	-3.34	
LFG VENT 3	3/24/16	12:18	49.5	39.6	0.8	10.1	-2.92	
LFG VENT 3	4/25/16	16:21	52.7	42.1	0.2	5.0	-3.27	

Los Alamos County
LFG Extraction System
thru January 2017

Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
LFG VENT 5	12/17/14	14:01	54.4	43.7	0.0	1.9	-1.52	
LFG VENT 5	12/22/14	14:08	54.1	43.9	0.0	2.0	-1.22	
LFG VENT 5	1/7/15	14:43	53.3	42.6	0.1	4.0	-1.38	
LFG VENT 5	1/21/15	12:57	53.2	42.8	0.0	4.0	-0.02	
LFG VENT 5	2/5/15	16:21	49.8	38.9	0.1	11.2	-0.12	
LFG VENT 5	3/6/15	13:37	53.9	41.2	0.6	4.3	-0.82	
LFG VENT 5	4/21/15	12:56	53.6	43.3	0.2	2.9	-1.63	
LFG VENT 5	5/29/15	11:29	51.1	43.7	0.0	5.2	-2.60	Relative pressure obtained using handheld digital manometer
LFG VENT 5	6/30/15	12:14	48.4	42.0	0.2	9.4	-2.52	
LFG VENT 5	7/30/15	12:21	48.4	43.1	0.0	8.5	-3.45	
LFG VENT 5	8/18/15	13:16	50.6	39.0	0.2	10.2	-2.63	
LFG VENT 5	9/10/15	9:28	46.3	40.1	0.4	13.2	-3.12	
LFG VENT 5	10/15/15	13:59	47.0	40.5	0.7	11.8	-1.59	
LFG VENT 5	11/12/15	14:33	52.9	43.3	0.0	3.8	-0.13	
LFG VENT 5	12/30/15	19:25	44.2	36.0	0.2	19.6	-0.01	Portions of LFG piping frozen
LFG VENT 5	1/15/16	11:04	53.5	38.4	1.6	6.5	-2.87	
LFG VENT 5	2/24/16	16:54	45.5	38.4	0.1	16.0	-1.33	
LFG VENT 5	3/24/16	12:12	40.4	33.2	4.3	22.1	-1.66	
LFG VENT 5	4/25/16	16:15	52.5	42.0	0.0	5.5	-1.18	
LFG VENT 5	5/25/16	10:13	49.3	40.7	0.1	9.9	-2.77	
LFG VENT 5	6/14/16	14:27	43.6	36.4	0.5	19.5	-1.92	
LFG VENT 5	7/15/16	13:20	41.4	40.2	1.0	17.4	-2.56	
LFG VENT 5	8/19/16	12:02	44.3	37.5	1.6	16.6	-2.87	
LFG VENT 5	9/16/16	11:00	41.7	36.9	1.2	20.2	-3.11	
LFG VENT 5	10/7/16	11:01	28.3	25.9	7.6	38.2	-3.06	
LFG VENT 5	11/22/16	16:25	39.2	35.9	1.4	23.5	-3.15	
LFG VENT 5	12/14/16	11:07	39.7	34.1	1.7	24.5	-2.79	
LFG VENT 5	1/20/17	13:53	47.9	38.1	0.2	13.8	-2.98	
LFG VENT 6	12/17/14	14:04	52.6	41.8	0.7	4.9	-1.25	
LFG VENT 6	12/22/14	14:04	52.0	41.6	0.6	5.8	-1.04	
LFG VENT 6	1/7/15	14:39	44.9	37.4	1.4	16.3	-1.14	
LFG VENT 6	1/21/15	12:53	46.0	38.7	0.0	15.3	0.42	
LFG VENT 6	2/5/15	16:17	46.6	36.4	0.1	16.9	-0.08	
LFG VENT 6	3/6/15	13:25	51.7	39.3	0.8	8.2	-0.53	
LFG VENT 6	4/21/15	12:53	47.4	39.5	0.7	12.4	-1.04	
LFG VENT 6	5/29/15	43.4	37.8	1.0	17.8	11.7	-2.00	Relative pressure obtained using handheld digital manometer
LFG VENT 6	6/30/15	12:10	39.9	35.2	1.7	23.2	-1.90	
LFG VENT 6	7/30/15	12:19	39.5	35.6	2.5	22.4	-2.52	
LFG VENT 6	8/18/15	13:19	42.7	36.5	1.1	19.7	-1.85	
LFG VENT 6	9/10/15	9:31	37.1	33.0	2.6	27.3	-2.13	
LFG VENT 6	10/15/15	13:49	41.7	36.2	1.8	20.3	-1.13	
LFG VENT 6	11/12/15	14:21	49.7	40.4	0.3	9.6	-0.08	
LFG VENT 6	12/30/15	19:28	40.8	34.2	0.1	24.9	-0.04	Portions of LFG piping frozen
LFG VENT 6	1/15/16	11:00	51.5	36.9	1.9	9.7	-1.55	
LFG VENT 6	2/24/16	16:52	42.7	35.6	1.1	20.6	-1.20	
LFG VENT 6	3/24/16	12:08	46.8	37.4	1.2	14.6	-1.49	
LFG VENT 6	4/25/16	16:11	50.0	39.6	0.4	10.0	-0.67	
LFG VENT 6	5/25/16	10:22	45.3	37.2	0.9	16.6	-2.17	

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Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
MP-8	12/17/14	13:23	54.0	43.8	0.0	2.2	-2.66	
MP-8	12/22/14	11:37	52.5	42.0	0.0	5.5	-2.58	
MP-8	1/7/15	12:25	47.7	40.5	0.0	11.8	-0.94	
MP-8	1/21/15	12:14	51.0	41.4	0.0	7.6	-0.91	
MP-8	2/3/15	12:38	52.5	41.5	0.1	5.9	-0.02	
MP-8	2/5/15	15:29	40.6	35.5	0.2	23.7	-4.53	
MP-8	3/6/15	12:32	37.2	34.8	1.5	26.5	-2.41	
MP-8	4/21/15	11:41	42.6	37.7	0.1	19.6	-3.98	
MP-8	5/29/15	10:33	42.4	37.3	0.0	20.3	-3.80	Relative pressure obtained using handheld digital manometer
MP-8	6/30/15	11:03	42.0	38.5	0.0	19.5	-4.38	
MP-8	7/30/15	11:49	42.3	39.2	0.0	18.5	-5.28	
MP-8	8/18/15	12:57	50.4	39.0	0.2	10.4	-4.67	
MP-8	9/10/15	9:05	45.5	38.4	0.2	15.9	-5.16	
MP-8	10/15/15	13:01	47.2	40.6	0.0	12.2	-2.67	
MP-8	11/12/15	13:43	45.4	40.7	0.0	13.9	-1.40	
MP-8	12/7/15	13:30	49.4	40.8	0.0	9.8	-3.48	
MP-8	1/15/16	12:01	43.6	36.7	1.9	17.8	-5.35	
MP-8	2/24/16	17:17	37.5	35.2	0.5	26.8	-4.88	
MP-8	3/24/16	11:39	26.9	23.7	7.3	42.1	-5.80	
MP-8	4/25/16	15:34	44.2	37.9	0.0	17.9	-5.42	
MP-8	5/25/16	10:41	40.1	36.0	0.0	23.9	-6.16	
MP-8	6/14/16	13:47	40.8	32.2	0.1	26.9	-4.79	
MP-8	7/15/16	11:15	43.2	38.5	0.1	18.2	-4.26	
MP-8	8/19/16	11:21	47.0	36.3	2.2	14.5	-5.07	
MP-8	9/16/16	13:41	41.1	34.9	2.4	21.6	-6.22	
MP-8	10/7/16	10:29	42.0	37.8	0.8	19.4	-6.94	
MP-8	11/22/16	15:51	43.7	40.1	0.0	16.2	-6.95	
MP-8	12/14/16	10:36	41.5	37.4	0.1	21.0	-7.56	
MP-8	1/20/17	13:28	44.3	37.3	0.3	18.1	-7.10	
MP-8R	12/17/14	13:02	26.6	33.3	0.1	40.0	-0.06	
MP-8R	12/22/14	11:41	25.3	32.4	0.1	42.2	0.34	
MP-8R	1/7/15	12:21	13.4	26.1	2.3	58.2	-0.01	
MP-8R	1/21/15	12:18	24.2	31.2	0.0	44.6	0.26	
MP-8R	2/3/15	12:33	21.6	29.4	0.1	48.9	0.12	
MP-8R	2/5/15	15:25	17.8	26.7	1.2	54.3	0.03	
MP-8R	3/6/15	12:39	15.9	26.9	2.0	55.2	0.09	
MP-8R	4/21/15	11:46	12.8	26.7	1.3	59.2	0.26	
MP-8R	5/29/15	10:39	0.1	1.5	21.4	77.0	0.00	Relative pressure obtained using handheld digital manometer
MP-8R	6/30/15	11:00	0.6	7.3	14.8	77.3	0.00	
MP-8R	7/30/15	11:50	0.0	0.2	21.0	78.8	-0.08	
MP-8R	8/18/15	11:42	6.6	24.8	0.6	68.0	0.25	
MP-8R	9/10/15	9:08	1.9	7.3	12.7	78.1	-0.03	
MP-8R	10/15/15	13:05	2.1	16.5	6.1	75.3	0.25	
MP-8R	11/12/15	13:37	7.5	27.4	0.0	65.1	0.11	
MP-8R	12/7/15	13:35	13.5	28.7	0.0	57.8	0.26	
MP-8R	1/15/16	12:05	16.3	29.2	0.0	54.5	0.29	
MP-8R	2/24/16	17:21	9.0	24.3	1.0	65.7	-0.01	
MP-8R	3/24/16	11:35	0.0	0.9	20.5	78.6	0.01	

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Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
MP-9	12/17/14	13:30	51.6	44.3	0.0	4.1	-2.28	
MP-9	12/22/14	11:46	50.5	43.6	0.0	5.9	-2.13	
MP-9	1/7/15	15:44	30.5	36.6	0.0	32.9	-2.78	
MP-9	1/21/15	12:36	46.0	42.2	0.0	11.8	-0.32	
MP-9	2/5/15	15:35	40.5	38.6	0.2	20.7	-0.21	
MP-9	2/3/15	12:47	52.5	39.8	0.5	7.2	0.05	
MP-9	3/6/15	12:47	26.5	32.3	1.6	39.6	-1.75	
MP-9	4/21/15	11:57	26.3	33.2	0.0	40.5	-3.27	
MP-9	5/29/15	10:47	11.6	23.9	0.0	64.5	-3.55	Relative pressure obtained using handheld digital manometer
MP-9	6/30/15	11:08	12.9	26.7	0.1	60.3	-3.85	
MP-9	7/30/15	11:55	3.2	20.8	2.8	73.2	-4.79	
MP-9	8/18/15	14:25	38.7	35.4	0.0	25.9	-3.96	
MP-9	9/10/15	9:18	13.0	26.0	0.0	61.0	-4.42	
MP-9	10/15/15	13:10	33.1	34.1	0.0	32.8	-2.32	
MP-9	11/12/15	13:48	36.0	35.5	0.3	28.2	-2.63	
MP-9	12/7/15	13:25	43.0	38.6	0.0	18.4	-3.18	
MP-9	1/15/16	11:39	33.7	29.8	4.9	31.6	-7.30	
MP-9	2/24/16	16:23	25.3	30.8	0.3	43.6	-3.61	
MP-9	3/24/16	11:47	13.8	21.5	5.6	59.1	-3.22	
MP-9	4/25/16	15:29	37.6	35.9	0.2	26.3	-3.65	
MP-9	5/25/16	10:51	11.3	25.6	0.2	62.9	-5.32	
MP-9	6/14/16	13:58	18.9	26.1	0.2	54.8	-3.97	
MP-9	7/15/16	11:46	12.1	26.9	0.1	60.9	-3.59	
MP-9	8/19/16	11:25	29.3	29.7	2.1	38.9	-4.08	
MP-9	9/16/16	13:46	23.2	29.2	0.8	46.8	-4.75	
MP-9	10/7/16	10:37	12.3	25.8	0.8	61.1	-3.81	
MP-9	11/22/16	15:47	24.0	30.8	0.0	45.2	-5.15	
MP-9	12/14/16	10:42	17.0	27.6	0.1	55.3	-5.61	
MP-9	1/20/17	14:16	33.2	33.0	0.3	33.5	-6.94	
MP-9R	12/17/14	13:36	40.7	39.5	0.0	19.8	0.07	
MP-9R	12/22/14	14:40	40.9	39.8	0.0	19.3	0.21	
MP-9R	1/7/15	12:42	31.2	36.9	0.1	31.8	0.04	
MP-9R	1/21/15	12:40	25.2	35.0	0.0	39.8	0.05	
MP-9R	2/5/15	15:41	25.5	34.0	0.1	40.4	-0.05	
MP-9R	3/6/15	12:55	21.8	32.5	0.2	45.5	0.10	
MP-9R	4/21/15	12:15	6.1	24.9	0.2	68.8	0.25	
MP-9R	5/29/15	10:55	0.1	2.1	21.1	76.7	0.00	Relative pressure obtained using handheld digital manometer
MP-9R	6/30/15	11:47	0.0	9.3	12.1	78.6	0.02	
MP-9R	7/30/15	11:59	0.0	0.1	21.3	78.6	0.01	
MP-9R	8/18/15	13:36	0.0	1.7	19.7	78.6	0.17	
MP-9R	9/10/15	9:46	0.0	0.4	19.5	80.1	0.22	
MP-9R	10/15/15	13:25	0.0	2.5	15.6	81.9	0.17	
MP-9R	11/12/15	13:55	10.3	20.7	0.1	68.9	-0.02	
MP-9R	12/7/15	13:45	17.0	25.6	0.0	57.4	0.02	
MP-9R	1/15/16	11:46	24.0	29.3	0.0	46.7	0.03	
MP-9R	2/24/16	17:13	3.0	8.7	15.1	73.2	-0.01	
MP-9R	3/24/16	11:44	0.0	0.7	20.6	78.7	0.02	
MP-9R	4/25/16	15:11	2.1	23.0	0.1	74.8	0.26	

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Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
MP-10R	7/30/15	12:05	0.1	0.1	21.4	78.4	0.02	
MP-10R	8/18/15	13:31	0.5	6.8	18.2	74.5	0.26	
MP-10R	9/10/15	9:40	0.0	0.5	19.7	79.8	0.16	
MP-10R	10/15/15	13:33	0.0	0.8	18.9	80.3	0.19	
MP-10R	11/12/15	14:05	35.5	35.9	0.0	28.6	-0.03	
MP-10R	12/7/15	13:52	39.6	37.0	0.0	23.4	0.04	
MP-10R	1/15/16	11:28	43.5	38.4	0.0	18.1	0.20	
MP-10R	2/24/16	16:31	26.3	31.6	0.2	41.9	0.00	
MP-10R	3/24/16	11:51	2.4	3.5	18.6	75.5	0.02	
MP-10R	4/25/16	15:24	27.4	33.2	0.0	39.4	0.31	
MP-10R	5/25/16	12:03	19.4	30.6	0.4	49.6	0.05	
MP-10R	6/14/16	14:05	0.0	3.7	16.5	79.8	0.09	
MP-10R	7/15/16	11:37	0.0	1.6	19.0	79.4	-0.01	
MP-10R	8/19/16	13:49	23.9	29.1	2.0	45.0	0.04	
MP-10R	9/16/16	13:26	0.0	1.2	19.1	79.7	0.01	
MP-10R	10/7/16	10:44	0.0	0.2	21.3	78.5	0.06	
MP-10R	11/22/16	16:00	0.3	8.0	15.8	75.9	-0.19	
MP-10R	12/14/16	12:03	3.1	9.7	13.0	74.2	0.06	
MP-10R	1/20/17	10:03	20.0	28.9	0.0	51.1	-0.03	
MP-11	12/17/14	14:52	54.0	42.9	0.0	3.1	-1.85	
MP-11	12/22/14	15:41	49.0	41.3	0.0	9.7	-1.93	
MP-11	1/7/15	15:52	48.4	39.8	0.0	11.8	-1.47	
MP-11	1/21/15	13:12	49.1	40.8	0.0	10.1	-0.12	
MP-11	2/5/15	16:10	52.9	39.5	0.1	7.5	-0.11	
MP-11	3/6/15	13:16	48.7	38.9	0.2	12.2	-0.28	
MP-11	4/21/15	14:15	48.2	38.8	0.1	12.9	-2.48	Lateral pipe broken when arrived at site, repaired
MP-11	5/29/15	11:11	41.0	38.3	0.0	20.7	-2.70	Relative pressure obtained using handheld digital manometer
MP-11	6/30/15	12:03	36.4	36.0	0.4	27.2	-2.79	
MP-11	7/30/15	12:09	31.4	34.0	1.7	32.9	-3.80	
MP-11	8/18/15	13:26	43.0	34.9	0.5	21.6	-2.96	
MP-11	9/10/15	9:56	35.0	31.8	0.4	32.8	-3.21	
MP-11	10/15/15	13:44	39.5	36.7	0.1	23.7	-1.57	
MP-11	11/12/15	14:12	45.7	39.9	0.0	14.4	-0.16	
MP-11	12/7/15	13:10	52.6	39.6	0.0	7.8	-0.02	
MP-11	12/7/15	13:12	52.9	40.2	0.0	6.9	-0.06	Portions of LFG piping frozen
MP-11	1/15/16	10:40	47.2	39.1	0.0	13.7	-2.29	
MP-11	2/24/16	16:40	38.3	35.2	0.3	26.2	-1.58	
MP-11	3/24/16	12:01	32.1	28.6	5.3	34.0	-1.31	
MP-11	4/25/16	15:58	45.2	38.1	0.0	16.7	-1.04	
MP-11	5/25/16	11:03	40.9	36.4	0.0	22.7	-2.71	
MP-11	6/14/16	14:10	38.2	31.8	0.2	29.8	-2.00	
MP-11	7/15/16	13:43	37.0	37.7	0.1	25.2	-2.43	
MP-11	8/19/16	11:31	42.8	35.6	1.0	20.6	-2.91	
MP-11	9/16/16	14:44	33.0	32.3	1.9	32.8	-2.24	
MP-11	10/7/16	10:48	35.0	35.1	0.6	29.3	-3.24	
MP-11	11/22/16	16:04	36.8	37.0	0.0	26.2	-3.27	
MP-11	12/14/16	12:48	36.0	33.8	0.2	30.0	-2.73	
MP-11	1/20/17	13:42	40.2	35.9	0.4	23.5	-3.29	

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Device ID	Date	Time	CH4	CO2	O2	Balance	Rel. Press.	Comments
			%	%	%	%	inches H2O	
MP-12R	10/15/15	12:15	0.0	0.3	20.5	79.2	-0.06	
MP-12R	11/12/15	15:07	4.7	18.7	7.2	69.4	0.19	
MP-12R	1/15/16	12:55	7.2	23.9	1.3	67.6	0.38	
MP-12R	2/24/16	17:46	6.1	20.1	4.2	69.6	0.17	
MP-12R	3/24/16	12:35	0.0	0.5	21.0	78.5	0.05	
MP-12R	4/25/16	16:49	7.7	24.7	0.5	67.1	0.97	
MP-12R	5/25/16	12:27	3.7	18.5	4.5	73.3	0.10	
MP-12R	6/14/16	15:36	3.1	17.3	3.5	76.1	0.11	
MP-12R	7/15/16	12:36	2.8	14.8	9.3	73.1	-0.22	
MP-12R	8/19/16	13:26	3.1	15.6	8.3	73.0	-0.34	
MP-12R	9/16/16	14:06	2.7	13.4	9.0	74.9	0.06	
MP-12R	10/7/16	10:11	0.0	1.8	21.0	77.2	-0.37	
MP-12R	11/22/16	16:25	1.2	8.8	15.1	74.9	-0.28	
MP-12R	12/14/16	12:16	2.1	12.8	10.5	74.6	0.10	
MP-12R	1/20/17	11:47	3.0	17.8	4.3	74.9	0.01	

indicates gas probe at l indicates gas probe at landfill boundary
Relative Pressure Collected on May 29, 2015 was with a handheld digital manometer
NR - data not recorded