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DEPARTMENT OF ENERGY
National Nuclear Security Administration
Los Alamos Field Office
Los Alamos, New Mexico 87544



ENTER



JAN 09 2015

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

RECEIVED

Mr. John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

JAN 21 2015

NMED
Hazardous Waste Bureau

Dear Mr. Kieling:

Subject: Notification of Methane at 100 percent of the Lower Explosive Limit at Vent Risers along the North Edge of the Los Alamos Airport Landfill Cap for the Month of December 2014

The purpose of this letter is to provide formal notification to the New Mexico Environment Department-Hazardous Waste Bureau of methane at 100 percent of the Lower Explosive Limit and vent risers along the north edge of the Los Alamos Airport Landfill cap. Enclosed are five monitoring Landfill Gas Monitoring Reports for the month of December 2014.

David S. Rhodes
Federal Project Director
Environmental Projects Office

Enclosures

36880



cc w/enclosures:

Dave Cobrain

Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Neelam Dhawan

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Michael Dale

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R. Massey, EPO, NA-LA

D. McInroy, CAP, LANS, MS-M992

Records Center, NA-LA

Official Contract File, NA-LA

EPO-32RM-712-608075

The Lakeworth Group, LLC

146B East Gate Drive; PO Box 1232 / Los Alamos, NM 87544 / Telephone (505) 662-7275

WEEKLY, AIRPORT LANDFILL SWMU 73-001(a) and DEBRIS DISPOSAL AREA, SWMU 73-001(d) GAS MONITORING

Date: 12-4-14

Inspector Printed Name: Joseph T. Sena

Inspector Signature: Joseph T. Sena

Barometric Pressure: 30.12 Temperature: 40 Wind Direction: Calm

Wind Speed: Calm Weather Conditions: Fog

Date and amount of last precipitation (within last 48 hours): 12-4-14 .03

Weather Data Source: Los Alamos Airport - National Weather Service

Instrument: GX-2012 Calibration method and date: 9-18-14 RK14-Gas

Comments: _____

Weekly Monitoring

Sample Location	Height (ft)	Time	Methane (CH ₄) % LEL	Oxygen (O ₂) %	Carbon Dioxide (CO ₂) %
Hangar Pads: Samples will be collected on the east side of the pad along the expansion joint.* After a hangar is built, samples will be collected along the interior walls at 4 inches to 4 ft above pad.					
PS-01	at spinner (4 ft above pavement)	10:05	0	20.9	0
PS-02	at spinner (4 ft above pavement)	10:08	100	13	0
PS-03	at spinner (4 ft above pavement)	10:12	100	8.5	0
PS-04	at spinner (4 ft above pavement)	10:14	0	20.9	0
PS-05	at spinner (4 ft above pavement)	10:16	100	11.8	0
PS-06	at spinner (4 ft above pavement)	10:18	0	20.9	0

Note:
 Methane concentrations shall be measured in percent of the LEL. Other gases measured in %.
 LEL = lower explosive limit
 PS = Perimeter Spinner (wind turbine)
 Form modified from <http://www.nmenv.state.nm.us/swb/documents/ExampleMethaneFORM10-10-08.doc>.

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WEEKLY, AIRPORT LANDFILL SWMU 73-001(a) and DEBRIS DISPOSAL AREA, SWMU 73-001(d)

GAS MONITORING

Date: 12/11/14

Inspector Printed Name: Felicia Aguilar

Inspector Signature: Felicia M. Aguilar

Barometric Pressure: 30.20 Temperature: 53°F Wind Direction: E

Wind Speed: 0 mph Weather Conditions: fair

Date and amount of last precipitation (within last 48 hours): none

Weather Data Source: Los Alamos Airport - National Weather Service

Instrument: GX-2012 Calibration method and date: 9/18/14 RK14-gas

Comments: none

Weekly Monitoring

Sample Location	Height (ft)	Time	Methane (CH ₄) % LEL	Oxygen (O ₂) %	Carbon Dioxide (CO ₂) %
PS-01	at spinner (4 ft above pavement)	1:33	0	20.9	0
PS-02	at spinner (4 ft above pavement)	1:35	100	14.4	0
PS-03	at spinner (4 ft above pavement)	1:37	0	20.9	0
PS-04	at spinner (4 ft above pavement)	1:38	0	20.9	0
PS-05	at spinner (4 ft above pavement)	1:39	100	17.6	0
PS-06	at spinner (4 ft above pavement)	1:41	100	20.9	0

Note:

Methane concentrations shall be measured in percent of the LEL. Other gases measured in %.

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WEEKLY, AIRPORT LANDFILL SWMU 73-001(a) and DEBRIS DISPOSAL AREA, SWMU 73-001(d) GAS MONITORING

Date: 12-17-14

Inspector Printed Name: Joseph T. Perry

Inspector Signature: Joseph T. Perry

Barometric Pressure: 30.20 Temperature: 30 Wind Direction: NE

Wind Speed: 7 Weather Conditions: Fair

Date and amount of last precipitation (within last 48 hours): 12-17-14 .03

Weather Data Source: Los Alamos Airport - National Weather Service

Instrument: GX-2012 Calibration method and date: 9-18-14 RK14-Gas

Comments: none

Weekly Monitoring

Sample Location	Height (ft)	Time	Methane (CH ₄) % LEL	Oxygen (O ₂) %	Carbon Dioxide (CO ₂) %
Hangar Pads: Samples will be collected on the east side of the pad along the expansion joint.* After a hangar is built, samples will be collected along the interior walls at 4 inches to 4 ft above pad.					
PS-01	at spinner (4 ft above pavement)	12:38	0	20.9	0
PS-02	at spinner (4 ft above pavement)	12:48	100	15.4	0
PS-03	at spinner (4 ft above pavement)	12:56	0	20.9	0
PS-04	at spinner (4 ft above pavement)	13:04	0	20.9	0
PS-05	at spinner (4 ft above pavement)	13:12	100	16.3	0
PS-06	at spinner (4 ft above pavement)	13:20	0	20.9	0

Note:
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WEEKLY, AIRPORT LANDFILL SWMU 73-001(a) and DEBRIS DISPOSAL AREA, SWMU 73-001(d) GAS

MONITORING

Date: 12/26/14

Inspector Printed Name: Felicia Aguilar

Inspector Signature: Felicia M. Aguilar

Barometric Pressure: 29.81 Temperature: 27° Wind Direction: W

Wind Speed: 10 Weather Conditions: Partly cloudy

Date and amount of last precipitation (within last 48 hours): none

Weather Data Source: Los Alamos Airport - National Weather Service

Instrument: GX-2012 Calibration method and date: 9/18/14 RKI 4 gas

Comments: none

Weekly Monitoring

Sample Location	Height (ft)	Time	Methane (CH ₄) % LEL	Oxygen (O ₂) %	Carbon Dioxide (CO ₂) %
PS-01	at spinner (4 ft above pavement)	15:15	0	20.9	0
PS-02	at spinner (4 ft above pavement)	15:17	0	20.9	0
PS-03	at spinner (4 ft above pavement)	15:19	0	20.9	0
PS-04	at spinner (4 ft above pavement)	15:21	0	20.7	0
PS-05	at spinner (4 ft above pavement)	15:23	7	20.5	0
PS-06	at spinner (4 ft above pavement)	15:24	0	20.7	0

Note:

Methane concentrations shall be measured in percent of the LEL. Other gases measured in %.

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WEEKLY, AIRPORT LANDFILL SWMU 73-001(a) and DEBRIS DISPOSAL AREA, SWMU 73-001(d) GAS MONITORING

Date: 12/29/14

Inspector Printed Name: Felicia Aguilar

Inspector Signature: Felicia M. Aguilar

Barometric Pressure: 29.95 in Temperature: 29°F Wind Direction: SE

Wind Speed: 8 mph Weather Conditions: overcast

Date and amount of last precipitation (within last 48 hours): none

Weather Data Source: Los Alamos Airport - National Weather Service

Instrument: GX-2012 Calibration method and date: 9/18/14 - RKI 4 gas

Comments: none

Weekly Monitoring

Sample Location	Height (ft)	Time	Methane (CH ₄) % LEL	Oxygen (O ₂) %	Carbon Dioxide (CO ₂) %
PS-01	at spinner (4 ft above pavement)	1255	0	20.9	0
PS-02	at spinner (4 ft above pavement)	1257	100	11.8	0
PS-03	at spinner (4 ft above pavement)	1259	0	20.9	0
PS-04	at spinner (4 ft above pavement)	1259	0	20.9	0
PS-05	at spinner (4 ft above pavement)	1301	0.8	18.6	0
PS-06	at spinner (4 ft above pavement)	1303	0	20.9	0

Note:

Methane concentrations shall be measured in percent of the LEL. Other gases measured in %.

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