



January 11, 2011



New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services
625 Broadway, 12th Floor
Albany, New York 12233-7013


Attn: Jeffrey E. Trad, P.E.
Environmental Engineer II

Re: Sonia Road Landfill Remediation Program
Site Registry No. 152013
Post Closure Program

Dear Mr. Trad:

Transmitted herewith is the Fourth Quarter Sonia Road Post Closure Monitoring Report for 2010. Also included (as Appendices A, B, C, D & E) are 1) a field photograph; 2) the July, August, September, October, November, & December 2010 FPM Gas Migration Monitoring Reports; 3) the February, 2010 H2M Well Condition Report; 4) Omntec field test results; and 5) the total number of cars stored on site (provided by the leasee).

Sincerely,



Anthony J. Varrichio, P.E.
Chief Engineer
Islip Resource Recovery Agency

cc: Christopher A. Andrade, Agency President
R.M. Brick, Executive Assistant to Mr. Andrade
Fazil Rahaman, Asst. Groundwater Treatment Plant Operator
File



**TOWN OF ISLIP
SUFFOLK COUNTY, NEW YORK**

**SONIA ROAD LANDFILL
WEST BRENTWOOD, NEW YORK
SITE REGISTRY NO. 152013**



**POST CLOSURE
MONITORING AND MAINTENANCE REPORT**

OCTOBER THROUGH DECEMBER
2010

**POST-CLOSURE MONITORING AND MAINTENANCE REPORT
SONIA ROAD LANDFILL
BRENTWOOD, NEW YORK**

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SITE INSPECTION CHECKLIST



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

**TOWN OF ISLIP
SONIA ROAD LANDFILL
POST CLOSURE MONITORING AND MAINTENANCE PLAN
SITE INSPECTION CHECK LIST**

Vegetative Cover

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
	F	7		Winter conditions.	12/09/2010	Fazil Rahaman

PROBLEM CODE	
C	Undesirable growth
E	Litter
F	Others

PRIORITY CODE	
4	Correct within 3 months
5	Correct within 6 months
7	Being Monitored
8	Other

If entire site Vegetative Cover is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

Soil Cover

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
					12/09/2010	F. Rahaman

PROBLEM CODE	
C	Ponding (>10'x10')

PRIORITY CODE	
7	Being Monitored
8	Other

If entire site Soil Cover is acceptable, check box and sign

Signature

N. M. Smith for F. Rahaman



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

Revetment Matting Side Slopes & Gabion Curb

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
B3	L	7		Beside Gabion Curb.	12/09/2010	Fazil Rahaman
H1.H5	F	7			12/09/2010	Fazil Rahaman

PROBLEM CODE	
B	Slope movement
F	Settlement
J	Damaged baskets
L	Depression

PRIORITY CODE	
4	Correct within 3 months
7	Being Monitored

If entire site Revetment Matting is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

**TOWN OF ISLIP
SONIA ROAD LANDFILL
POST CLOSURE MONITORING AND MAINTENANCE PLAN
SITE INSPECTION CHECK LIST**

Access Roads

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
A3	E	7		Between perimeter fence & access rd.	12/09/2010	Fazil Rahaman

PROBLEM CODE	
C	Potholes
E	Erosion gullies
F	Loss of stone cover
H	Ponding
I	Depressions

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
5	Correct within 6 months
7	Being Monitored

If entire site Access roads is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

**Stormwater Collection System 1 of 4
Perimeter Swale & Diversion Swale**

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
H1.H5	L	7		Swale needs attention (due to settlement).	12/09/2010	Fazil Rahaman

PROBLEM CODE	
B	Slope movement
C	Silt accumulation
D	Ponded water
E	Vegetative cover
F	Debris/clogging
L	Other (see comments above)

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
5	Correct within 6 months
7	Being Monitored

If entire site Stormwater Collection System 1 of 4 is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

**Stormwater Collection System 2 of 4
Inlet Structure & Rip-Rap Drainway**

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
					12/09/2010	F. Rahaman

PROBLEM CODE	
F	Debris/clogging
L	Woody vegetation

PRIORITY CODE	
4	Correct within 3 months

If entire site Stormwater Collection System 2 of 4 is acceptable, check box and sign

Signature

N.M. Smith for F. Rahaman



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

**Stormwater Collection System 3 of 4
Energy Dissipators & Down-Chutes**

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
					12/09/2010	F. Rahaman

PROBLEM CODE	
L	Woody Vegetation

PRIORITY CODE	
4	Correct within 3 months

If entire site Stormwater Collection System 3 of 4 is acceptable, check box and sign

Signature

R. M. Birch for F. Rahaman



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

**TOWN OF ISLIP
SONIA ROAD LANDFILL
POST CLOSURE MONITORING AND MAINTENANCE PLAN
SITE INSPECTION CHECK LIST**

**Stormwater Collection System 4 of 4
Drywells & Culverts/Outlets**

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
					12/09/2010	F. Rahaman

PROBLEM CODE	
C	Silt accumulation
E	Vegetative cover
H	Soil erosion around
K	Others

PRIORITY CODE	
4	Correct within 3 months
7	Being Monitored

If entire site Stormwater Collection System 4 of 4 is acceptable, check box and sign

Signature

R.M. Bick for F. Rahaman



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

**TOWN OF ISLIP
SONIA ROAD LANDFILL
POST CLOSURE MONITORING AND MAINTENANCE PLAN
SITE INSPECTION CHECK LIST**

Recharge Basins

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
					12/09/2010	F. Rahaman

PROBLEM CODE	
A	Vegetation
G	Others

PRIORITY CODE	
4	Correct within 3 months

If entire site Recharge Basins is acceptable, check box and sign

Signature

R.M. Dick for F. Rahaman



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL POST CLOSURE MONITORING AND MAINTENANCE PLAN SITE INSPECTION CHECK LIST

Monitoring Wells

Report Date: 12/15/2010

ITEM ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
	F	8		See well condition report prepared by town consultant H2M Feb. 2010 (attached).	12/09/2010	Fazil Rahaman
	F	8		See well condition reports prepared by town consultant FPM, July through November (attached).	12/09/2010	Fazil Rahaman

PROBLEM CODE	
A	Damage
C	Settlement
E	Gasket Damage
F	Others

PRIORITY CODE	
3	Correct within 1 month
4	Correct within 3 months
7	Being Monitored
8	Other – see comments above

If entire site Monitoring wells is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

Landfill Gas Collection System

Report Date: 12/15/2010

ITEM ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
Vault 18	N	8	1	See comments on page 14.	11/04/2010	Fazil Rahaman
	D	7			11/04/2010	Fazil Rahaman

PROBLEM CODE	
D	Settlement
K	Soil erosion around
L	Access restricted
N	Other

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site Landfill gas collection system is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

**TOWN OF ISLIP
SONIA ROAD LANDFILL
POST CLOSURE MONITORING AND MAINTENANCE PLAN
SITE INSPECTION CHECK LIST**

Landfill Gas Compound

Report Date: 12/15/2010

ITEM ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
Blower	K	7		104A; between pulley & housing.	12/09/2010	Fazil Rahaman
Gas	M	7		Panel: Printer out of service (status normal NO ALARMS).	12/09/2010	Fazil Rahaman
Condensate Flare	M	8		Used for venting only.	12/09/2010	Fazil Rahaman

PROBLEM CODE	
F	Alarms
J	Gauges
K	Oil leak
M	Other

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site Landfill gas compound is acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL POST CLOSURE MONITORING AND MAINTENANCE PLAN SITE INSPECTION CHECK LIST

Site Facilities

Report Date: 12/15/2010

ITEM/ GRID ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
Flare Control Panel	L	7		'Flare arrestor over range AI' reflected on digital screen.(Note: FLARE USED FOR VENTING ONLY).	12/09/2010	Fazil Rahaman
E1	K	7		Due to settlement	12/09/2010	Fazil Rahaman
F1	K	7		Due to settlement	12/09/2010	Fazil Rahaman

PROBLEM CODE	
A	Damage
G	Replace indicator lights
J	Slope Movement
K	Fence Movement
L	Other

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site Site Facilities are acceptable, check box and sign

Signature _____



SITE Inspection Checklist Report

12/15/2010 2:01:54PM

TOWN OF ISLIP SONIA ROAD LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

SITE INSPECTION CHECK LIST

General Comments

Report Date: 12/15/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS *see below*	DATE	INSPECTED BY:
					11/04/2010	F. Rahaman
PROBLEM CODE			PRIORITY CODE			

If entire site General Comments is acceptable, check box and sign

Signature _____

Gas Collection Wells #1 through #8 scheduled for inspection during first half of 2011.

Gas Valve Vaults #10 through #14 scheduled for inspection during first half of 2011.

APPENDIX A
FIELD PHOTOGRAPH



GAS VALVE 18

11/4/10

11/4/10

APPENDIX B
GAS MIGRATION MONITORING REPORTS (6)

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

August 5, 2010

Mr. Alan R. Sanchez
Vice President of Operations
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

Re: **Sonia Road Landfill**
July 2010 Landfill Gas Monitoring Results
FPM File No. 631-08-11

Dear Mr. Sanchez:

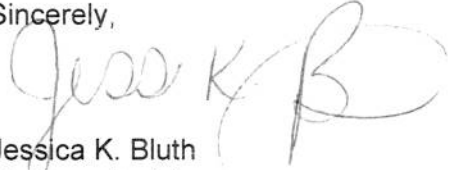
On July 27, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O₂) gas and methane (CH₄) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH₄ and 15% carbon dioxide (CO₂) with the balance nitrogen (N₂) gas, and 4% O₂ with the balance N₂ gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for August 24, 2010. Jim Jahnke will be notified several days in advance of the sampling event. **Prior to the next monitoring event, it is requested that all wells be cleared of overgrown vegetation.**

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,


Jessica K. Bluth
Hydrogeologist

JKB:tac
Attachment

cc: Jim Jahnke (via fax)
Fazil Rahaman (via fax)

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TABLE 1
LANDFILL GAS MONITORING RESULTS
SONIA ROAD LANDFILL
ISLIP, NEW YORK

Gas Monitoring Wells

Location ID	Well Condition	Time & Date	CH ₄	CO ₂	O ₂	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	7/27/2010 12:01	3.6	12.4	6.8	29.9	-29.40
GM-01	OK	7/27/2010 12:03	0.0	1.1	15.6	29.9	0.00
GM-02	OK	7/27/2010 12:07	0.0	4.0	13.3	29.9	0.00
GM-03	OK	7/27/2010 12:10	0.0	0.1	16.2	29.9	0.00
GM-04	OK	7/27/2010 12:17	0.0	0.1	16.5	29.9	0.00
GM-05	OK	7/27/2010 11:26	0.0	0.1	17.0	30.0	-0.30
GM-06	OK	7/27/2010 12:13	0.0	0.0	16.5	29.9	0.00
GM-07	OK	7/27/2010 11:31	0.0	0.7	16.2	30.0	-0.20
GM-08	OK	7/27/2010 11:34	0.0	1.0	16.1	30.0	-0.10
GM-09	OK	7/27/2010 11:36	0.0	0.5	16.2	30.0	-0.10
GM-10	OK	7/27/2010 11:38	0.0	0.7	16.2	30.0	0.00
GM-11	OK	7/27/2010 11:42	0.0	1.2	15.9	30.0	0.00
GM-12	OK	7/27/2010 11:45	0.0	0.1	16.5	29.9	0.00
GM-13	OK	7/27/2010 11:47	0.0	2.0	15.0	29.9	0.00
GM-14	OK	7/27/2010 11:49	0.0	1.2	15.3	29.9	-0.10
GM-15	OK	7/27/2010 11:52	0.0	0.1	16.5	29.9	0.00
GM-16	OK	7/27/2010 11:54	0.0	1.1	15.5	29.9	-0.10
GM-17	OK	7/27/2010 11:57	0.0	0.5	16.1	29.9	0.00

Notes:

CH₄, CO₂, and O₂ are reported in percent gas.
Relative well head pressure is reported in inches of water.
Atmospheric pressure is reported in inches of mercury.
Recovery System Status - On
Weather - Partly cloudy, 85°F

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

September 8, 2010

Mr. Alan R. Sanchez
Vice President of Operations
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

Re: **Sonia Road Landfill
August 2010 Landfill Gas Monitoring Results
FPM File No. 631-08-11**

Dear Mr. Sanchez:

On August 20, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O₂) gas and methane (CH₄) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH₄ and 15% carbon dioxide (CO₂) with the balance nitrogen (N₂) gas, and 4% O₂ with the balance N₂ gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for September 22, 2010. Jim Jahnke will be notified several days in advance of the sampling event. **Prior to the next monitoring event, it is requested that all wells be cleared of overgrown vegetation.**

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,



Jessica K. Bluth
Hydrogeologist

JKB:tac
Attachment

cc: Jim Jahnke (via fax)
Fazil Rahaman (via fax)

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TABLE 1
LANDFILL GAS MONITORING RESULTS
SONIA ROAD LANDFILL
ISLIP, NEW YORK

Gas Monitoring Wells

Location ID	Well Condition	Time & Date	CH ₄	CO ₂	O ₂	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	8/20/2010 13:02	0.0	0.3	16.3	29.7	-24.50
GM-01	OK	8/20/2010 13:04	0.0	1.0	15.7	29.7	0.00
GM-02	OK	8/20/2010 13:07	0.0	1.9	14.9	29.7	0.00
GM-03	*	8/20/2010 13:10	0.0	0.0	16.3	29.7	0.00
GM-04	OK	8/20/2010 13:13	0.0	0.0	16.4	29.7	0.00
GM-05	OK	8/20/2010 12:15	0.0	0.0	16.5	29.7	-0.20
GM-06	OK	8/20/2010 12:18	0.0	0.6	16.0	29.7	-0.10
GM-07	OK	8/20/2010 12:20	0.0	0.5	15.9	29.7	-0.10
GM-08	OK	8/20/2010 12:23	0.0	1.0	15.5	29.7	0.00
GM-09	OK	8/20/2010 12:28	0.0	0.5	15.8	29.7	0.00
GM-10	OK	8/20/2010 12:30	0.0	0.3	16.2	29.7	0.00
GM-11	OK	8/20/2010 12:34	0.0	1.0	15.8	29.7	0.00
GM-12	OK	8/20/2010 12:37	0.0	0.1	16.3	29.7	-0.10
GM-13	OK	8/20/2010 12:47	0.0	1.6	15.1	29.7	0.00
GM-14	OK	8/20/2010 12:49	0.0	0.9	15.6	29.7	0.00
GM-15	OK	8/20/2010 12:53	0.0	0.0	16.4	29.7	0.00
GM-16	OK	8/20/2010 12:55	0.0	0.7	15.9	29.7	0.00
GM-17	OK	8/20/2010 12:58	0.0	0.2	16.3	29.7	0.00

Notes:

CH₄, CO₂, and O₂ are reported in percent gas.
Relative well head pressure is reported in inches of water.
Atmospheric pressure is reported in inches of mercury.
Recovery System Status - On
Weather - Partly cloudy, 86°F

***GM-03 - Broken sample nozzle**

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

October 5, 2010

Mr. Alan R. Sanchez
Vice President of Operations
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

Re: **Sonia Road Landfill**
September 2010 Landfill Gas Monitoring Results
FPM File No. 631-08-11

Dear Mr. Sanchez:

On September 22, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O₂) gas and methane (CH₄) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH₄ and 15% carbon dioxide (CO₂) with the balance nitrogen (N₂) gas, and 4% O₂ with the balance N₂ gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for October 21, 2010. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,


Jessica K. Bluth
Hydrogeologist

JKB:tac
Attachment

cc: Jim Jahnke (via fax)
Fazil Rahaman (via fax)

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TABLE 1
LANDFILL GAS MONITORING RESULTS
SONIA ROAD LANDFILL
ISLIP, NEW YORK

Gas Monitoring Wells

Location ID	Well Condition	Time & Date	CH ₄	CO ₂	O ₂	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	9/22/2010 12:48	2.7	6.7	11.2	29.9	0.00
GM-01	OK	9/22/2010 12:50	0.0	2.1	14.5	29.9	0.00
GM-02	OK	9/22/2010 12:53	0.0	2.8	13.3	29.9	0.00
GM-03	OK	9/22/2010 12:55	0.0	0.9	12.6	29.9	0.00
GM-04	OK	9/22/2010 12:57	0.0	3.1	11.7	29.9	0.00
GM-05	OK	9/22/2010 12:10	0.0	0.7	15.7	29.9	0.00
GM-06	OK	9/22/2010 12:12	0.0	1.2	14.0	29.9	0.00
GM-07	OK	9/22/2010 12:15	0.0	16.8	0.4	29.9	0.00
GM-08	OK	9/22/2010 12:17	0.0	11.1	5.6	29.9	0.00
GM-09	OK	9/22/2010 12:19	0.0	5.5	9.0	29.9	0.00
GM-10	OK	9/22/2010 12:22	0.0	0.8	15.4	29.9	0.00
GM-11	OK	9/22/2010 12:25	0.0	1.1	15.8	29.9	0.00
GM-12	OK	9/22/2010 12:29	0.0	1.3	14.7	29.9	0.00
GM-13	OK	9/22/2010 12:32	0.0	11.5	5.0	29.9	0.00
GM-14	OK	9/22/2010 12:37	0.0	17.4	1.9	29.9	0.00
GM-15	OK	9/22/2010 12:40	0.0	0.2	16.0	29.9	0.00
GM-16	OK	9/22/2010 12:42	0.0	6.2	8.2	29.9	0.00
GM-17	OK	9/22/2010 12:45	0.0	0.9	15.4	29.9	0.00

Notes:

CH₄, CO₂, and O₂ are reported in percent gas.
Relative well head pressure is reported in inches of water.
Atmospheric pressure is reported in inches of mercury.
Recovery System Status - Off
Weather - Partly cloudy, 76°F

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

November 4, 2010

Mr. Alan R. Sanchez
Vice President of Operations
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

Re: **Sonia Road Landfill**
October 2010 Landfill Gas Monitoring Results
FPM File No. 631-08-11

Dear Mr. Sanchez:

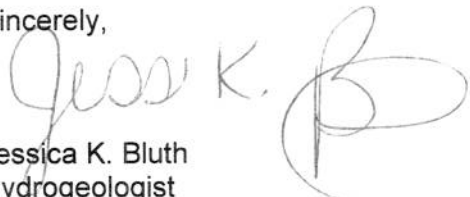
On October 27, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O₂) gas and methane (CH₄) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH₄ and 15% carbon dioxide (CO₂) with the balance nitrogen (N₂) gas, and 4% O₂ with the balance N₂ gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for November 22, 2010. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,


Jessica K. Bluth
Hydrogeologist

JKB:tac
Attachment

cc: Jim Jahnke (via fax)
Fazil Rahaman (via fax)

S:\Islip RRA\Reports\Sonia-Ltrs\2010 Letters\October.Docx

TABLE 1
LANDFILL GAS MONITORING RESULTS
SONIA ROAD LANDFILL
ISLIP, NEW YORK

Gas Monitoring Wells

Location ID	Well Condition	Time & Date	CH ₄	CO ₂	O ₂	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	10/27/2010 13:31	5.7	13.8	6.8	29.8	4.20
GM-01	OK	10/27/2010 13:33	0.0	1.7	14.7	29.8	0.00
GM-02	OK	10/27/2010 13:36	0.0	0.9	15.8	29.8	0.00
GM-03	OK	10/27/2010 13:38	0.0	0.1	16.2	29.8	0.00
GM-04	OK	10/27/2010 13:40	0.0	0.1	16.3	29.8	0.00
GM-05	OK	10/27/2010 12:57	0.0	0.1	16.6	29.8	-0.40
GM-06	OK	10/27/2010 12:59	0.0	0.5	16.2	29.8	0.00
GM-07	OK	10/27/2010 13:01	0.0	1.0	16.1	29.8	-0.10
GM-08	OK	10/27/2010 13:04	0.0	1.4	15.3	29.8	0.00
GM-09	OK	10/27/2010 13:07	0.0	2.1	14.6	29.8	0.00
GM-10	OK	10/27/2010 13:09	0.0	0.6	16.1	29.8	0.00
GM-11	OK	10/27/2010 13:13	0.0	1.2	15.7	29.8	-0.10
GM-12	OK	10/27/2010 13:15	0.0	0.2	16.2	29.8	0.00
GM-13	OK	10/27/2010 13:17	0.0	0.1	16.4	29.8	0.00
GM-14	OK	10/27/2010 13:19	0.0	0.1	16.4	29.8	0.00
GM-15	*	10/27/2010 13:21	0.0	0.1	16.4	29.8	0.00
GM-16	OK	10/27/2010 13:24	0.0	0.9	15.6	29.8	0.00
GM-17	OK	10/27/2010 13:26	0.0	0.3	16.2	29.8	0.00

Notes:

CH₄, CO₂, and O₂ are reported in percent gas.

Relative well head pressure is reported in inches of water.

Atmospheric pressure is reported in inches of mercury.

Recovery System Status - Off

Weather - Overcast, 66°F

***GM-15 - Sample tubing disconnected from well**

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

December 3, 2010

Mr. Alan R. Sanchez
Vice President of Operations
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

Re: **Sonia Road Landfill**
November 2010 Landfill Gas Monitoring Results
FPM File No. 631-08-11

Dear Mr. Sanchez:

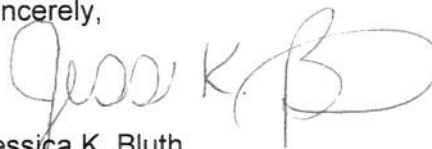
On November 24, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O₂) gas and methane (CH₄) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH₄ and 15% carbon dioxide (CO₂) with the balance nitrogen (N₂) gas, and 4% O₂ with the balance N₂ gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for December 23, 2010. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,



Jessica K. Bluth
Hydrogeologist

JKB:tac
Attachment

cc: Jim Jahnke (via fax)
Fazil Rahaman (via fax)

S:\Islip RRA\Reports\Sonia-Ltrs\2010 Letters\November.docx

TABLE 1
LANDFILL GAS MONITORING RESULTS
SONIA ROAD LANDFILL
ISLIP, NEW YORK

Gas Monitoring Wells

Location ID	Well Condition	Time & Date	CH ₄	CO ₂	O ₂	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	11/24/2010 11:48	5.0	12.7	7.3	30.1	-36.40
GM-01	OK	11/24/2010 11:50	0.0	1.4	15.1	30.1	0.00
GM-02	OK	11/24/2010 11:53	0.0	0.7	15.9	30.1	0.00
GM-03	OK	11/24/2010 11:55	0.0	0.1	16.3	30.1	0.00
GM-04	OK	11/24/2010 11:58	0.0	0.1	16.4	30.1	0.00
GM-05	OK	11/24/2010 11:08	0.0	0.1	16.5	30.1	-0.30
GM-06	OK	11/24/2010 11:10	0.0	0.3	16.3	30.1	-0.10
GM-07	OK	11/24/2010 11:12	0.0	2.6	15.1	30.1	-0.10
GM-08	OK	11/24/2010 11:15	0.0	1.1	15.8	30.1	0.00
GM-09	OK	11/24/2010 11:20	0.0	2.0	14.8	30.1	-0.10
GM-10	OK	11/24/2010 11:22	0.0	0.6	16.3	30.1	0.00
GM-11	OK	11/24/2010 11:26	0.0	0.9	16.0	30.1	-0.10
GM-12	OK	11/24/2010 11:29	0.0	0.1	16.4	30.1	-0.20
GM-13	OK	11/24/2010 11:31	0.0	0.1	16.4	30.1	0.00
GM-14	OK	11/24/2010 11:34	0.0	1.1	15.8	30.1	0.00
GM-15	OK	11/24/2010 11:37	0.0	0.9	15.9	30.1	0.00
GM-16	OK	11/24/2010 11:39	0.0	0.3	16.1	30.1	-0.10
GM-17	OK	11/24/2010 11:41	0.0	0.2	16.4	30.1	-0.10

Notes:

CH₄, CO₂, and O₂ are reported in percent gas.

Relative well head pressure is reported in inches of water.

Atmospheric pressure is reported in inches of mercury.

Recovery System Status - Off

Weather - Partly cloudy, 48°F

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

January 5, 2011

Mr. Alan R. Sanchez
Vice President of Operations
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751

Re: **Sonia Road Landfill
December 2010 Landfill Gas Monitoring Results
FPM File No. 631-08-11**

Dear Mr. Sanchez:

FPM Group (FPM) performed landfill gas monitoring at the above-referenced site on January 3, 2011. This monitoring event was performed to satisfy the monthly monitoring requirements for December 2010. It should be noted that holiday schedules (including landfill closures) and heavy snow cover precluded site access during the latter portion of December 2010; therefore, the monthly monitoring event was conducted at the first available opportunity thereafter.

Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1. Oxygen (O₂) gas and methane (CH₄) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH₄ and 15% carbon dioxide (CO₂) with the balance nitrogen (N₂) gas, and 4% O₂ with the balance N₂ gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for January 21, 2011. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,


Jessica K. Bluth
Hydrogeologist

JKB:tac
Attachment

cc: Jim Jahnke (via fax)
Fazil Rahman (via fax)

S:\Islip RRA\Reports\Sonia-Ltrs\2010 Letters\December.docx

**TABLE 1
LANDFILL GAS MONITORING RESULTS
SONIA ROAD LANDFILL
ISLIP, NEW YORK**

Gas Monitoring Wells

Location ID	Well Condition	Time & Date	CH ₄	CO ₂	O ₂	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	1/3/2011 14:20	0.0	0.2	16.6	30.2	-34.90
GM-01	OK	1/3/2011 14:23	0.0	0.9	16.0	30.2	0.00
GM-02	*	NS	NS	NS	NS	NS	NS
GM-03	OK	1/3/2011 14:33	0.0	0.2	16.4	30.2	0.00
GM-04	OK	1/3/2011 14:44	0.0	0.2	16.4	30.2	0.00
GM-05	OK	1/3/2011 13:03	0.0	0.1	16.9	30.1	-0.40
GM-06	OK	1/3/2011 13:07	0.0	0.2	16.7	30.1	-0.10
GM-07	OK	1/3/2011 13:11	0.0	1.0	16.4	30.1	-0.10
GM-08	OK	1/3/2011 13:17	0.0	0.7	16.4	30.1	-0.10
GM-09	OK	1/3/2011 13:22	0.0	1.8	15.3	30.1	0.00
GM-10	OK	1/3/2011 13:26	0.0	0.3	16.5	30.1	0.00
GM-11	OK	1/3/2011 13:33	0.0	0.8	16.3	30.2	-0.10
GM-12	OK	1/3/2011 13:43	0.0	0.1	16.7	30.2	0.00
GM-13	OK	1/3/2011 13:49	0.0	0.8	16.4	30.2	0.00
GM-14	OK	1/3/2011 13:53	0.0	0.7	16.4	30.2	0.00
GM-15	OK	1/3/2011 13:58	0.0	0.5	16.5	30.2	0.00
GM-16	OK	1/3/2011 14:05	0.0	1.1	16.2	30.2	-0.10
GM-17	OK	1/3/2011 14:10	0.0	0.2	16.7	30.2	0.00

Notes:

CH₄, CO₂, and O₂ are reported in percent gas.

Relative well head pressure is reported in inches of water.

Atmospheric pressure is reported in inches of mercury.

Recovery System Status - On

NS = Not Sampled

Weather - Clear, 35°F

*GM-02 - Inaccessible due to snow cover

FPM

APPENDIX C
GROUNDWATER WELL CONDITION REPORT



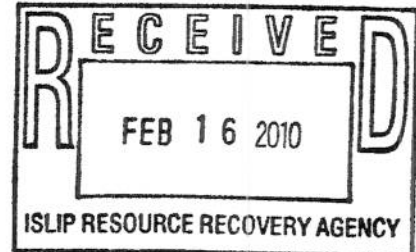
Engineers | Architects | Scientists | Planners | Surveyors

175 Pinelawn Road | Suite 308
Melville, New York 11747
v 631.756.8000 f 631.393.6322
www.h2m.com

Holzmaacher, McLendon & Murrell, P.C. | H2M Associates, Inc.
H2M Labs, Inc. | H2M Architects & Engineers, Inc.

February 11, 2009

Anthony Varrichio, P.E., Chief Engineer
Islip Resource Recovery Agency
401 Main Street
Islip, New York 11751



Re: **Well Condition Report, First Semi-Annual 2010 Report
Sonia Road Landfill,
H2M No. ISLP1001**

Dear Mr. Varrichio:

The purpose of this letter is to provide the First Semi-Annual 2010 well inspection summary report for the 35 monitoring wells at the Sonia Road Landfill. The completed well inspection checklists are enclosed. The well inspection did not reveal any significant damage, security issues or other concerns related to the sampled monitoring wells that would require corrective action, except at 12 wells. The following concerns were noted during the inspection:

- The vaults to monitoring wells MW-02D and MW-02I could not be closed due to contact between the well caps and vault covers.
- The rubber gaskets on the vaults for monitoring wells MW-06S and MW-06I were damaged.
- The casings for monitoring wells MW-05S, MW-13S and MW-14S are straight, but not vertical.
- The manhole cover for monitoring MW-07D could not be closed completely due to contact with the well cap.
- The PVC casing for monitoring wells MW-11S, MW-14S, MW-14I and MW-14D appeared to have been recently cut, and may need to be resurveyed.
- The well cap for monitoring well MW-11I was damaged.
- Sediment accumulation found beneath manhole cover for monitoring well MW-11D.
- The manhole cover for monitoring well MW-13S was missing.
- Monitoring well MW-13I was apparently buried beneath substantial landscaping debris, and could not be located during this sampling event.

If you have any questions or require any additional information, please call me at (631) 756-8000, extension 1606.

Very truly yours,

HOLZMACHER, McLENDON & MURRELL, P.C.

Kenneth P. Wenz, Jr.
Kenneth P. Wenz, Jr., CPG
Senior Project Manager

X:\ISLP (Town of Islip) - 10560\2010\Sonia Rd 2010\Well Condition Logs\Well condition Logs\First Semi-Annual Well Condition Report 2010.docx



CELEBRATING 75 YEARS



Table 1
WELL INSPECTION SUMMARY – FIRST SEMI-ANNUAL 2010
SONIA ROAD LANDFILL

Well	Surface Seal	Cover/Standpipe	Lock Intact?	Casing Alignment	Survey Point	Well Labeled?	Well Protected?
MW-01S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-01I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-01D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-02I	Intact	Vault could not be closed	Yes	Straight	Marked	Yes	No
MW-02D	Intact	Vault could not be closed	Yes	Straight	Marked	Yes	No
MW-03S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-03I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-03D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-04S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-04I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-04D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-05S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-05I	Intact	Intact	Yes	Straight, not vertical	Marked	Yes	Yes
MW-05D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-06S	Intact	Gasket damaged	Yes	Straight	Marked	Yes	Yes
MW-06I	Intact	Gasket damaged	Yes	Straight	Marked	Yes	Yes
MW-06D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-07S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-07I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-07D	Intact	Manhole cover not flush	Yes	Straight	Marked	Yes	Yes
MW-10S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-10I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-10D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-11S	Intact	Intact	Yes	Straight	PVC casing recently cut	Yes	Yes
MW-11I	Intact	Well cap damaged	Yes	Straight	Marked	Yes	Yes
MW-11D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-12S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-12I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-12D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-13S	Intact	Missing manhole cover	Yes	Straight, not vertical	Marked	Yes	No
MW-13I	Intact	Unable to locate well at the time of the inspection due to landscaping debris.	Yes	Straight	Marked	Yes	Yes
MW-13D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-14S	Intact	Intact	Yes	Straight, not vertical	PVC casing recently cut	Yes	Yes
MW-14I	Intact	Intact	Yes	Straight	PVC casing recently cut	Yes	Yes
MW-14D	Intact	Intact	Yes	Straight	PVC casing recently cut	Yes	Yes

APPENDIX D
OMNTEC FIELD TEST RESULTS

12/9/10

228.67 (G)

PRINTER O/S
SEE NOTES 11/23/10
CONDENSATE LEVEL
8 1/2" = 400 GAL
STATUS NORMAL

(NO ALARMS)

APPENDIX E
CARS STORED ON SITE

ATLANTIC CENTRAL STORAGE

November 30, 2010

DEALERSHIPS	UNITS ON HILL	UNITS AT LEXUS PDI
ATLANTIC HYUNDAI	568	0
ADVANTAGE TOYOTA	318	0
ATLANTIC AUDI	3	0
ATLANTIC CADDY	52	0
ATLANTIC CHEVY	209	0
HUNTINGTON TOYOTA	336	0
ATLANTIC NISSAN	567	0
ATLANTIC TOYOTA	396	0
ATLANTIC HONDA	414	0
LEXUS OF MASSAPEQUA	0	208
LEXUS OF R.V.C	0	187
MILLENNIUM HONDA	210	0
MASSAPEQUA NISSAN	210	0
WESTBURY NISSAN	163	0
TOTALS	3446	395