



March 20, 2018

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**

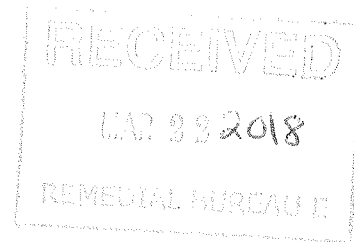
Dear Mr. Trad:

Transmitted herewith is the Annual Sonia Road Post Closure Monitoring Report for 2017.

Sincerely,


Anthony J. Varrichio, P.E.
Chief Engineer

AJV:vl



Enclosure

cc: James Heil, President
Fazil Rahaman, Acting Ground Water Treatment Plant Operator
Jim Jahnke
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**

JULY 2016 THROUGH AUGUST 2017

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

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

VEGETATIVE COVER

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
			Y <input checked="" type="checkbox"/> N <input type="checkbox"/> #	SEE PAGE 2, AND PHOTO'S ATTACHED TO APPENDIX A
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE	
a	Bare spots
b	Dead areas
c	Undesirable growth
d	Unauthorized dumping
e	Litter
f	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:

List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

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

Signature: _____

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

SOIL COVER

Annual Inspection ☒ Storm Inspection ☐

DATE: 3/16/17 - 4/27/17 *SP*

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
F4	c	1	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> # 6	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Erosion damage	g	Waste breakthrough
b	Slope movement	h	Leachate breakthrough
c	Ponding (>10x10')	i	Exposed geosynthetics
d	Holes	j	Vandalism
e	Cracking	k	Vector infestation
f	Rutting of soils	l	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

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

Signature: _____

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

REVTMENT MATTING (RIP RAP)

DATE: 3/31/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Side Slopes				
H1 - H5	f	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	MONITORING
C5,E5,F5,G5	f	-----	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> #	SEE PAGE 5, AND PHOTO'S ATTACHED TO APPENDIX A
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Gabion Burb				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Vandalism	g	Waste breakthrough
b	Slope movement	h	Leachate breakthrough
c	Vector infestation	i	Exposed geosynthetics
d	Holes	j	Damaged baskets
e	Holes in wire fabric	k	Loose ties
f	Settlement	l	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:

List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If all Revetment Matting (Rip Rap) and Gabion Curbs are acceptable, check box and sign below. ☐

Signature: _____

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

ACCESS ROADS

DATE: 3/31/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
C5	g & h	1	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> # 1	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Potholes	g	Depressions
b	Burrow holes	h	PONDING (74'x10')
c	Erosion gullies	i	
d	Loss of stone cover	j	
e	Exposed geotextile	k	
f	Obstructions/debris	l	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If all Access Roads are acceptable, check box and sign below. ☐

Signature: _____

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

STORMWATER COLLECTION SYSTEM (1 of 4)

DATE: 3/31/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Perimeter Swales				
H1-H5	k	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	MONITORING
C5,E5,F5,G5	d	1	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> # 5	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Diversion Swales				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Vandalism	g	Erosion control fabric
b	Slope movement	h	Loss of topsoil
c	Silt accumulation	i	Exposed geosynthetics
d	Ponded water	j	Wash outs
e	Vegetative cover	k	<i>SETTLEMENT</i>
f	Debris/ clogging	1	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If Perimeter Swales and Diversion Swales are acceptable, check box and sign below. ☐

Signature: _____

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

STORMWATER COLLECTION SYSTEM (2 of 4)

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Inlet Structures				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Rip Rap Drainway				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

Culvert Outlets

PROBLEM CODE			
a	Vandalism	g	Erosion control fabric
b	Slope movement	h	Loss of stone
c	Silt accumulation	i	Loss of topsoil
d	Ponded water	j	Soil erosion around
e	Vegetative cover	k	Soil erosion beneath
f	Debris/ clogging	l	Woody vegetation

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:

List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If Inlet Structures and Rip Rap Drainway are acceptable, check box and sign below.



Signature: Fazil Rahaman

TOWN OF ISLIP
SONIA ROAD LANDELL
POST CLOSURE MONITORING AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

STORMWATER COLLECTION SYSTEM (3 of 4)

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Energy Dissipators				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Downchutes				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Vandalism	g	Soil erosion around
b	Slope movement	h	Loss of stone
c	Silt accumulation	i	Soil erosion beneath
d	Ponded water	j	Loose ties on baskets
e	Damage/ instability	k	Slippage of gabion
f	Debris/ clogging	l	Woody vegetation

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:

List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If Energy Dissipators and Downchutes are acceptable, check box and sign below.



Signature: Fazil Rahaman

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

STORMWATER COLLECTION SYSTEM (4 of 4)

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Drywells				
C5	d & k	1	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> # 1	Located on access road.
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Culverts/ Outlets				
B3	h		Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	
D1	c & h		Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Vandalism	g	Erosion control fabric
b	Slope movement	h	Soil erosion around
c	Silt accumulation	i	Exposed geosynthetics
d	Ponded water	j	Damage/ instability
e	Vegetative cover	k	<i>SETTLEMENT/DEPRESSION</i>
f	Debris/ clogging	l	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If Drywells and Culverts are acceptable, check box and sign below. ☐

Signature: _____

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

RECHARGE BASINS

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

GRID I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Recharge Basin No. 1				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Recharge Basin No. 2				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE	
a	Vegetation
b	Sideslope erosion
c	Sideslope failures
d	Silt accumulation
e	Overflow conditions
f	Debris/ clogging

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:

List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If both Recharge Basins are acceptable, check box and sign below.



Signature: Fazil Rahaman

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

MONITORING WELLS

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: FPM, / Dvirka and Bartilucci

ITEM I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Landfill Gas Monitoring Wells				See well condition reports prepared by Town consultants.
-----	-----	-----	Y <input type="checkbox"/> N <input type="checkbox"/> #	FPM monthly reports July 2016 through August 2017 attached.
			Y <input type="checkbox"/> N <input type="checkbox"/> #	See Appendix B
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Groundwater Monitoring Wells				See well condition reports prepared by Town consultants.
-----	-----	-----	Y <input type="checkbox"/> N <input type="checkbox"/> #	D&B On Site August 21, 2017. Summary of Monitoring well Status
			Y <input type="checkbox"/> N <input type="checkbox"/> #	Dated November 13, 2017 Attached. See Appendix C
			Y <input type="checkbox"/> N <input type="checkbox"/> #	(NEXT REPORT DUE NOVEMBER 2018).
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE	
a	Damage
b	Vandalism
c	Settlement
d	Vector infestation
e	
f	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If all Monitoring Wells are acceptable, check box and sign below. ☐

Signature: _____

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

LANDFILL GAS COLLECTION SYSTEM

Annual Inspection ☒ Storm Inspection ☐

DATE: 8/30/2017 & 9/7/17 *PR*

INSPECTION BY: Fazil Rahaman

ITEM I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
LFG Recovery Wells/ Valve Vaults				
10-18	-----	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	Inspected 9/7/17
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
LFG Collection Wells (GC1 – GC 16)				
1-16	-----	-----	Y <input type="checkbox"/> N <input type="checkbox"/> #	Inspected 8/30/17
5	d	-----	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> # 1	Sand percolating up through sump opening, MONITORING.
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Odor	g	Broken valve
b	Damage	h	Broken piping
c	Vandalism	i	Exposed geosynthetics
d	Settlement	j	Damage/ instability
e	Vector infestation	k	Soil erosion around
f	No vacuum	l	Access restricted

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If entire site Landfill Gas Collection System is acceptable, check box and sign below. ☒

Signature: *Fazil Rahaman*

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

LANDFILL GAS COMPOUND

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

ITEM I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Blower Pad/ Blower Nos, 104A and 104B				
A & B	k	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	Minor oil leak between pully and housing, MONITORING
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Flare				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	USED FOR VENTING ONLY.
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Condensate Storage		Liquid Volume = 506 Gallons Alarms: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Test System: OK <input checked="" type="checkbox"/> Not Successful <input type="checkbox"/>		
			Y <input type="checkbox"/> N <input type="checkbox"/> #	Print out's attached, See Appendix D
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Odor	g	Broken valve
b	Damage	h	Broken piping
c	Vandalism	i	Broken belts
d	Mechanical noise	j	Gauges
e	No vacuum	k	<i>OIL LEAK</i>
f	Alarms	l	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If entire site Landfill Gas Compound is acceptable, check box and sign below. ☒

Signature: Fazil Rahaman

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

SITE FACILITIES

Annual Inspection ☒ Storm Inspection ☐

DATE: 8/30/2017

INSPECTION BY: Fazil Rahaman

ITEM I.D.	PROBLEM CODE	PRIORITY CODE	PHOTO TAKEN	COMMENTS
Electrical Panels and Control Panels				Lights tested: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
-----	-----	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	Flame Arrestor Over Range AL. reflected on digital screen.
-----	-----	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	NOTE: FLARE USED FOR VENTING ONLY.
Gates/ Locks/ Signs				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Fencing (Identify location by Grid I.D.)				
E1-F1	i	-----	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> #	MONITORING.
			Y <input type="checkbox"/> N <input type="checkbox"/> #	
Site Trailer				
			Y <input type="checkbox"/> N <input type="checkbox"/> #	

PROBLEM CODE			
a	Damage	g	Replace indicator lights
b	Vandalism	h	Tripped/ reset required
c	Alarms	i	<i>SETTLEMENT</i>
d	Missing locks	j	
e	Missing Signs	k	
f	Hole in fence fabric	l	

PRIORITY CODE	
1	Immediate
2	Correct within 1 week
3	Correct within 1 month
4	Correct within 3 months
5	Correct within 6 months
6	Correct within 1 year

Directions:
List only items or areas of the site where problems or deficiencies are noted or where repairs or rehabilitation are required.

If all Site Facilities are acceptable, check box and sign below. ☒

Signature: _____

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

COMMENTS

DATE: 8/30/2017

Annual Inspection ☒ Storm Inspection ☐

INSPECTION BY: Fazil Rahaman

ADDITIONAL COMMENTS AS REQUIRED

1/8/15 Municipal Land Surveyor on site RE: Grid I.D. B5,C5,E5,F5,G5, and F4.

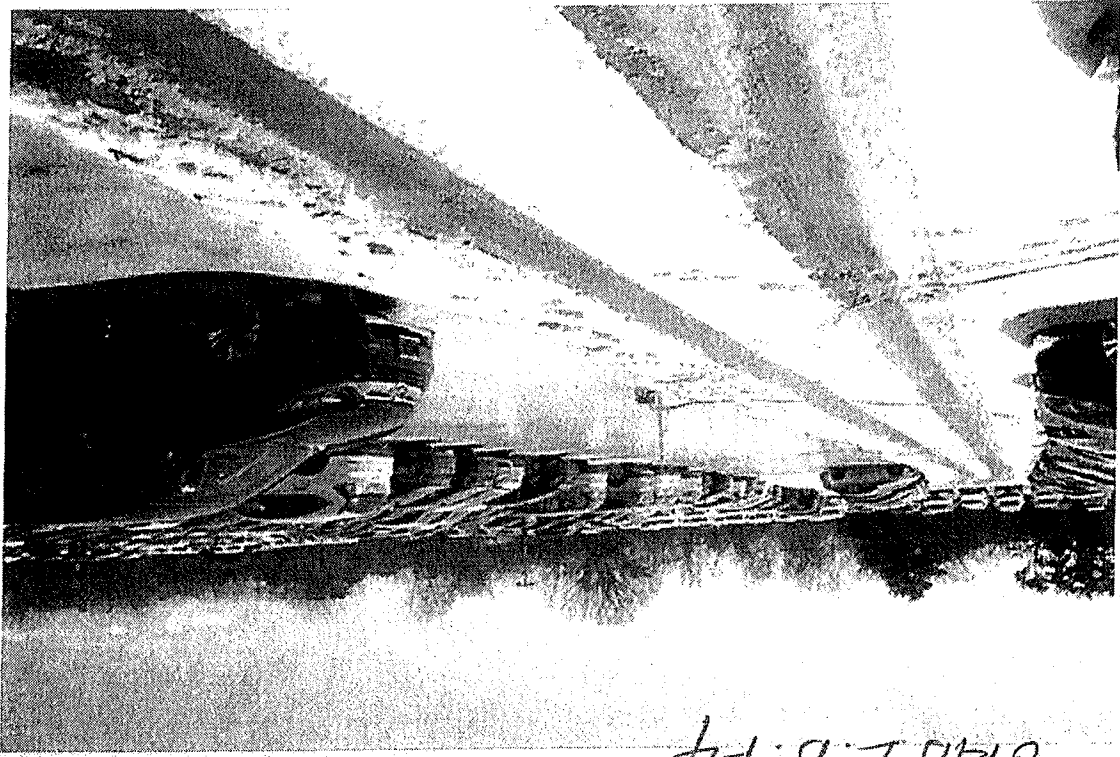
Site inspection has been completed, check box and sign below.



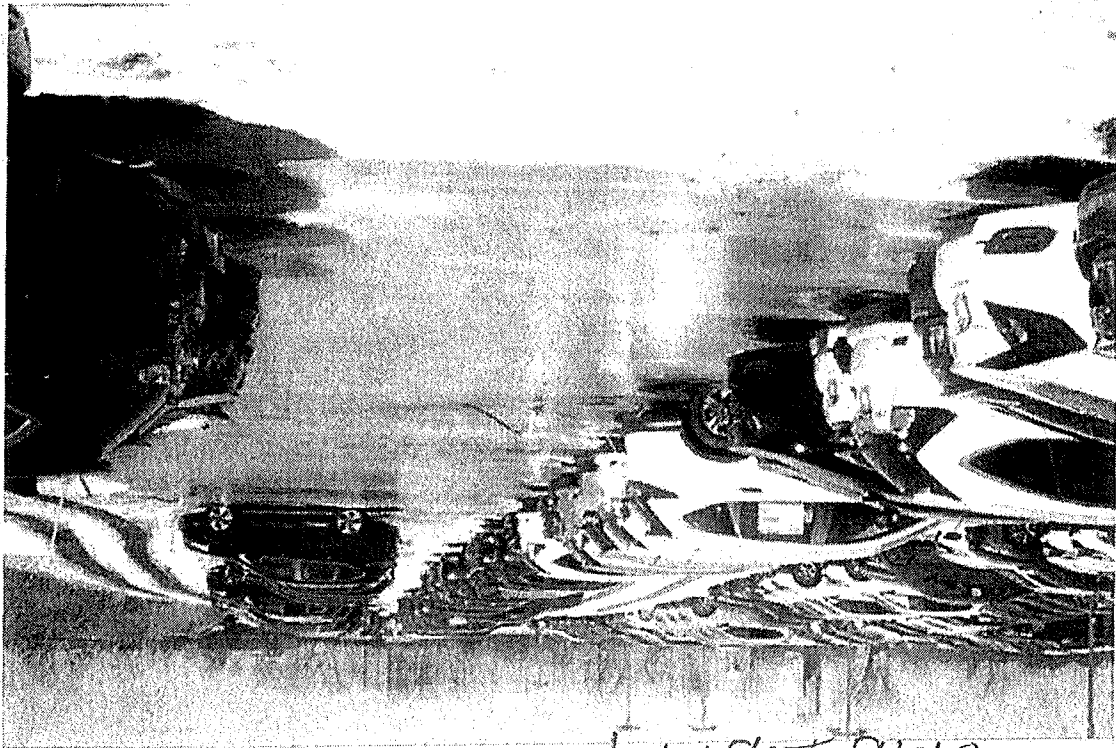
Signature: Fazil Rahaman

APPENDIX A
FIELD PHOTOGRAPHS
11 PHOTOS ATTACHED

9-10-1

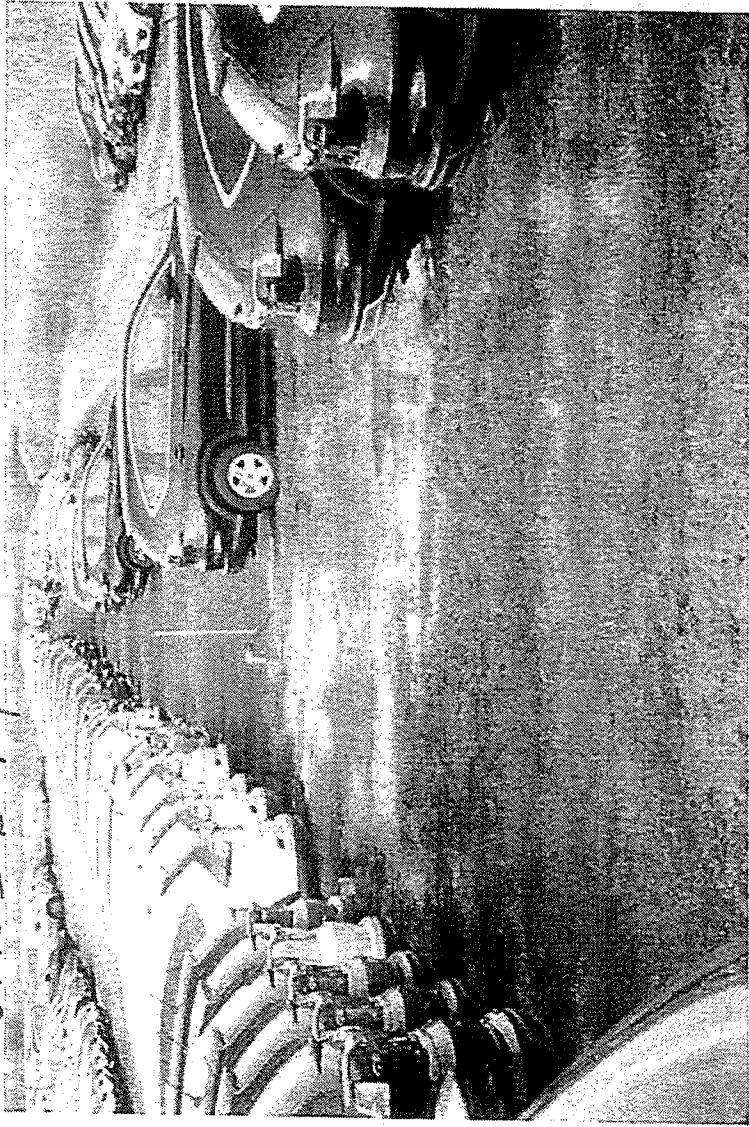


GR10 I.D. F4



GR10 I.D. F4

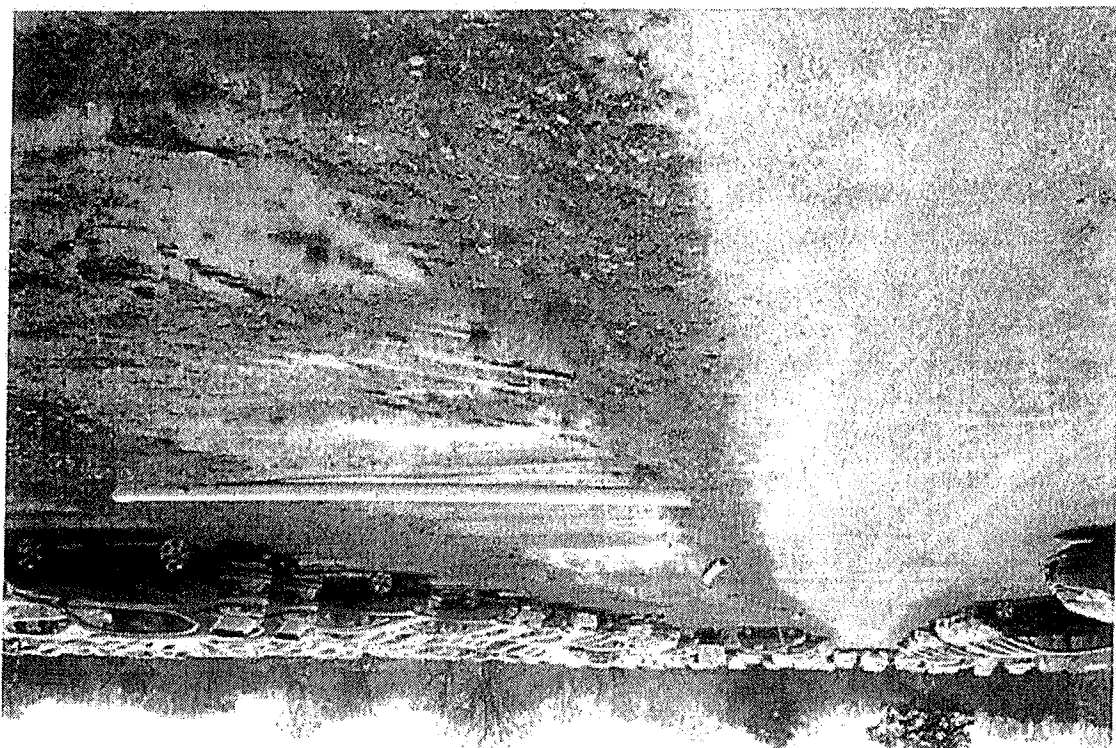
GRID I-D. F4



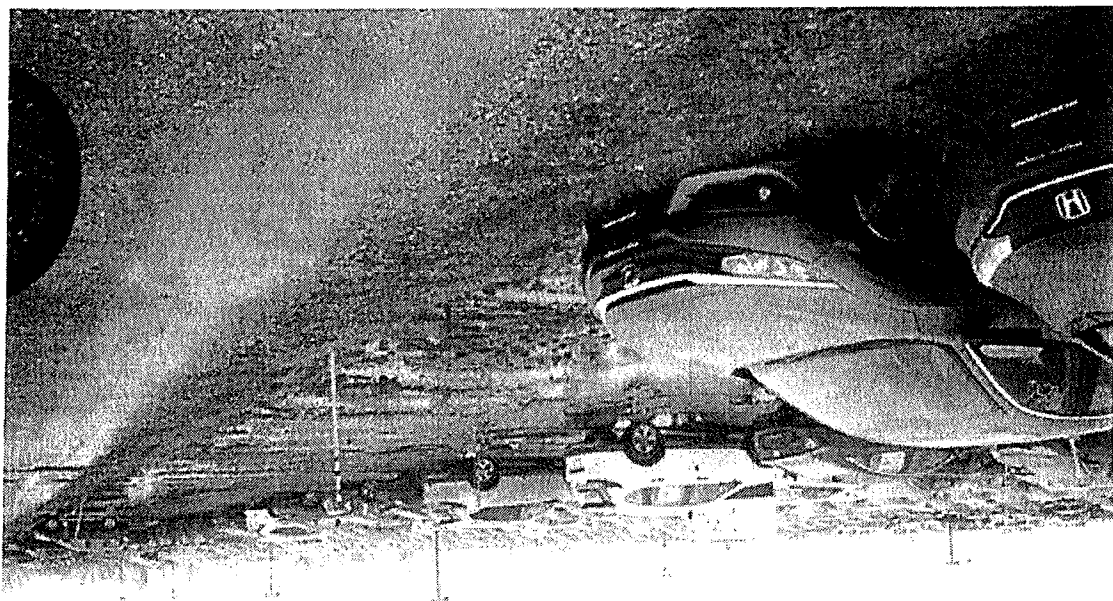
GRID I-D. F4



3 OF 6

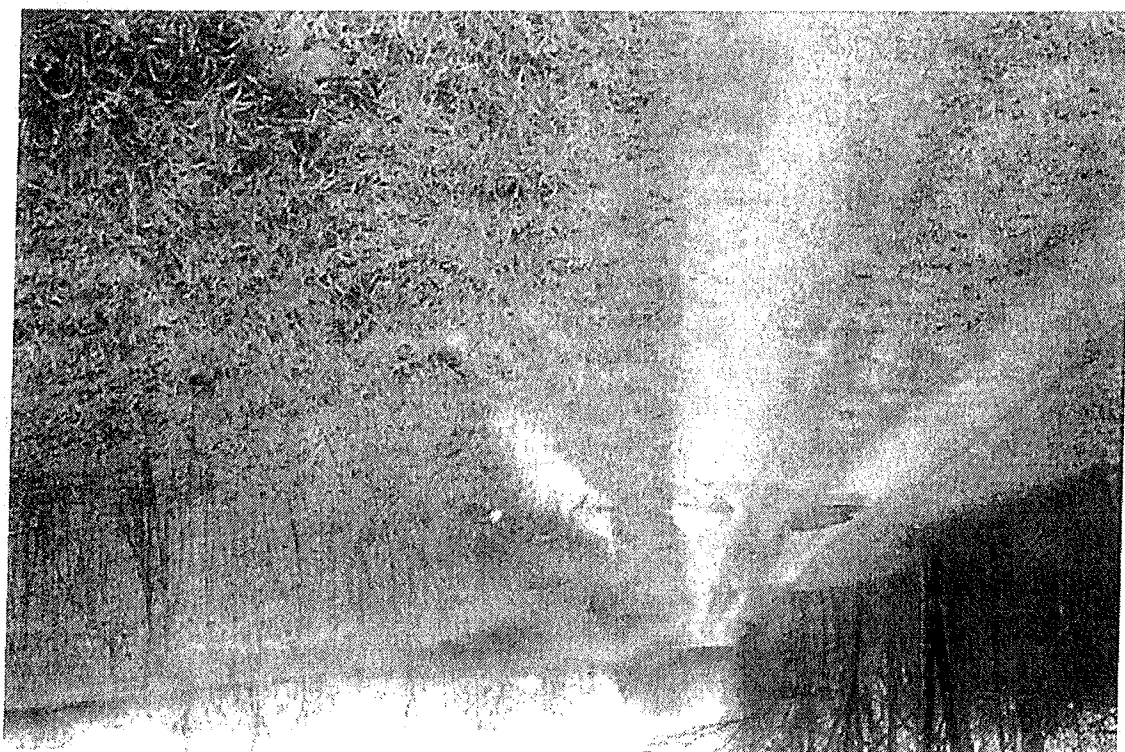


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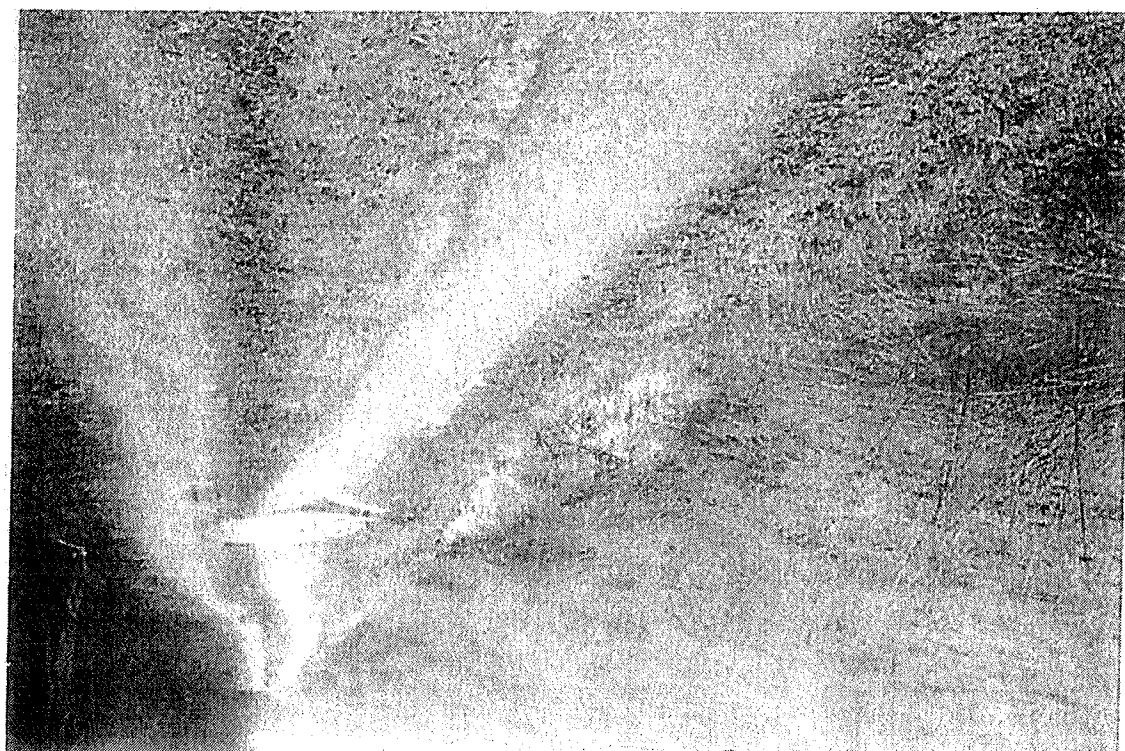


GRID I.D. F4

9-10 4



GRID I.O. E5

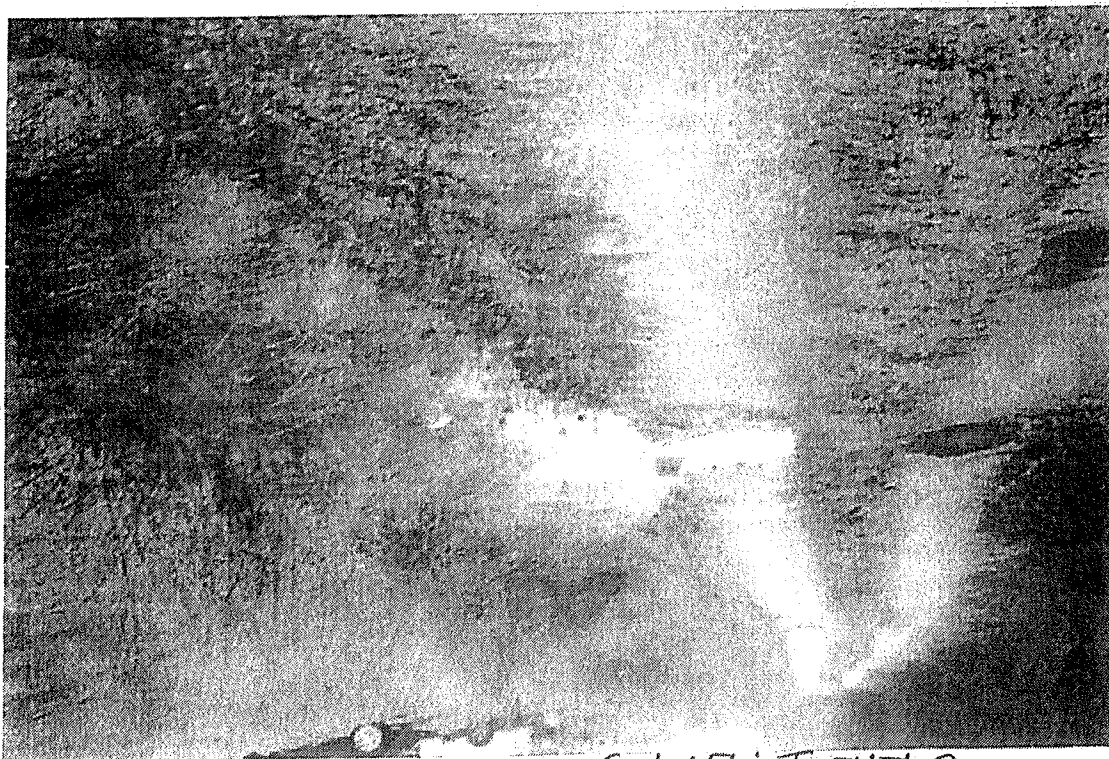


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50F6

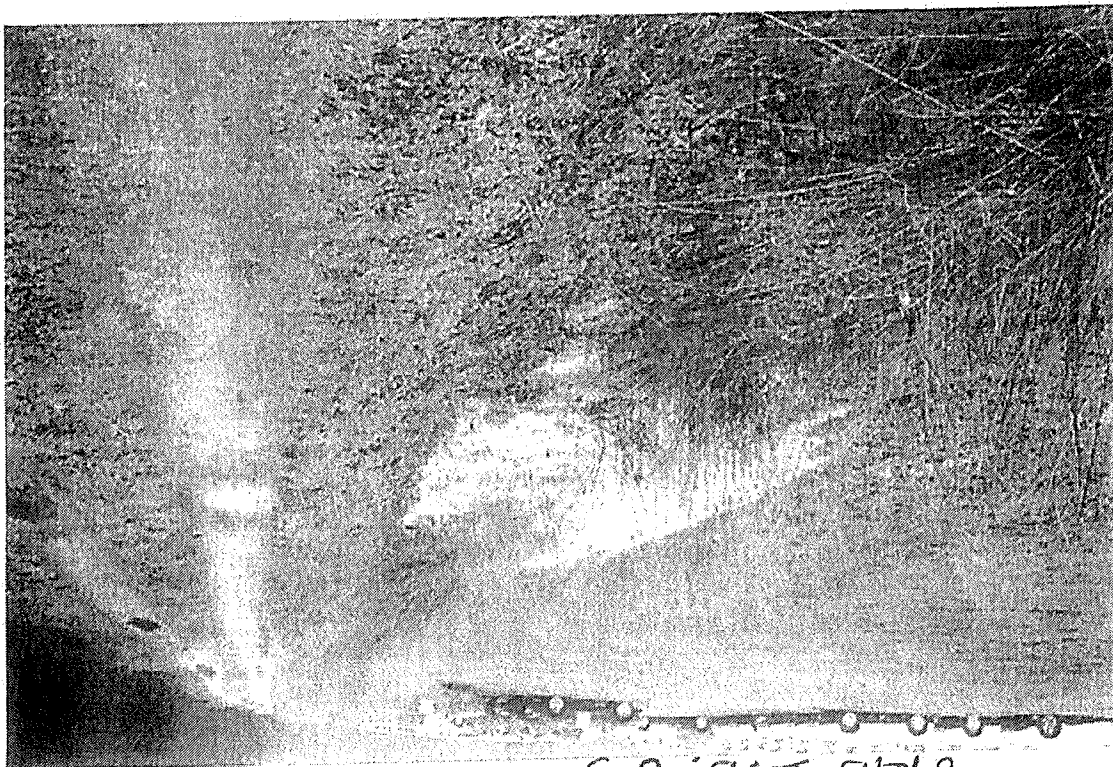


6210 I.D. F5



6210 I.D. F5

60F6



6210 I.O. 6-5

APPENDIX B
GAS MIGRATION MONITORING REPORTS
JULY 2016 THROUGH AUGUST 2017



Engineering and Environmental Science

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 3, 2016

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

Re: **Sonia Road Landfill**
July 2016 Landfill Gas Monitoring Results
FPM File No. 631-16-30

Dear Mr. Varrichio:

On July 7, 2016, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 8, 2016. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

S:\Islip RRA\Reports\Sonia-Ltrs\2016 Letters\July.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	7/7/2016 11:11	11.30	16.70	6.80	29.7	-18.55
GM-01	OK	7/7/2016 10:06	0.00	2.70	16.80	29.7	0.01
GM-02	OK	7/7/2016 10:09	0.00	4.50	15.30	29.7	0.02
GM-03	OK	7/7/2016 10:13	0.00	0.20	17.60	29.7	0.03
GM-04	OK	7/7/2016 10:16	0.00	2.20	15.30	29.7	0.03
GM-05	OK	7/7/2016 10:20	0.00	0.10	17.80	29.7	0.02
GM-06	OK	7/7/2016 10:23	0.00	1.40	16.80	29.7	0.00
GM-07	OK	7/7/2016 10:27	0.00	1.50	16.40	29.7	0.02
GM-08	OK	7/7/2016 10:32	0.00	2.80	15.20	29.7	0.02
GM-09	OK	7/7/2016 10:36	0.00	3.60	14.60	29.7	0.03
GM-10	OK	7/7/2016 10:39	0.00	1.10	17.00	29.7	0.05
GM-11	OK	7/7/2016 10:43	0.00	0.10	18.20	29.7	0.03
GM-12	OK	7/7/2016 10:46	0.00	0.80	17.40	29.7	-0.01
GM-13	OK	7/7/2016 10:50	0.00	1.10	17.20	29.7	0.02
GM-14	OK	7/7/2016 10:54	0.00	1.40	16.90	29.7	0.02
GM-15	OK	7/7/2016 10:57	0.00	2.40	16.20	29.7	0.02
GM-16	OK	7/7/2016 11:01	0.00	2.30	16.10	29.7	0.01
GM-17	OK	7/7/2016 11:04	0.00	2.00	16.80	29.7	0.01

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, 87°F

FPM



Engineering and Environmental Science

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 2, 2016

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

Re: **Sonia Road Landfill**
August 2016 Landfill Gas Monitoring Results
FPM File No. 631-16-30

Dear Mr. Varrichio:

On August 12, 2016, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 7, 2016. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

S:\Islip RRA\Reports\Sonia-Ltr\2016 Letters\August 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	8/12/2016 11:24	8.30	17.20	5.70	29.8	-31.57
GM-01	OK	8/12/2016 11:25	0.00	2.70	16.00	29.8	0.00
GM-02	OK	8/12/2016 11:30	0.00	3.10	15.90	29.8	-0.03
GM-03	OK	8/12/2016 11:35	0.00	0.00	18.10	29.8	-0.05
GM-04	OK	8/12/2016 11:38	0.00	3.30	13.70	29.8	-0.05
GM-05	OK	8/12/2016 11:41	0.00	0.00	18.00	29.8	-0.23
GM-06	OK	8/12/2016 11:44	0.00	1.10	17.20	29.8	-0.10
GM-07	OK	8/12/2016 11:47	0.00	2.90	14.80	29.8	-0.14
GM-08	OK	8/12/2016 11:49	0.00	2.00	16.10	29.8	-0.09
GM-09	OK	8/12/2016 11:52	0.00	0.80	17.00	29.8	-0.10
GM-10	OK	8/12/2016 11:55	0.00	0.00	18.20	29.8	0.00
GM-11	OK	8/12/2016 11:58	0.00	0.00	18.10	29.8	0.00
GM-12	OK	8/12/2016 12:01	0.00	0.40	17.60	29.8	-0.06
GM-13	OK	8/12/2016 12:04	0.00	0.00	18.10	29.8	-0.02
GM-14	OK	8/12/2016 12:07	0.00	0.00	18.10	29.8	-0.04
GM-15	OK	8/12/2016 12:11	0.00	2.10	16.40	29.8	-0.05
GM-16	OK	8/12/2016 12:14	0.00	1.80	16.40	29.8	-0.13
GM-17	OK	8/12/2016 12:18	0.00	1.50	17.00	29.8	-0.09

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 - Scattered Clouds, 88°F

FPM



Engineering and Environmental Science

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 3, 2016

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

Re: **Sonia Road Landfill**
September 2016 Landfill Gas Monitoring Results
FPM File No. 631-16-30

Dear Mr. Varrichio:

On September 8, 2016, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 6, 2016. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

S:\Islip RRA\Reports\Sonia-Ltrs\2016 Letters\September 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	9/8/2016 11:15	8.90	18.40	5.70	29.8	-12.92
GM-01	OK	9/8/2016 11:08	0.00	2.90	16.80	29.8	0.01
GM-02	OK	9/8/2016 11:12	0.00	2.50	16.90	29.8	0.02
GM-03	OK	9/8/2016 11:20	0.00	0.30	17.40	29.8	0.03
GM-04	OK	9/8/2016 11:23	0.00	1.30	16.90	29.8	0.03
GM-05	OK	9/8/2016 11:27	0.00	0.10	17.90	29.8	-0.05
GM-06	OK	9/8/2016 11:30	0.00	0.80	17.40	29.8	0.00
GM-07	OK	9/8/2016 11:32	0.00	1.20	17.00	29.8	-0.02
GM-08	OK	9/8/2016 11:36	0.00	4.70	13.50	29.8	0.00
GM-09	OK	9/8/2016 11:40	0.00	2.60	15.40	29.8	-0.02
GM-10	OK	9/8/2016 11:44	0.00	0.10	18.00	29.8	-0.01
GM-11	OK	9/8/2016 11:48	0.00	0.10	18.30	29.8	0.01
GM-12	OK	9/8/2016 11:52	0.00	0.20	17.90	29.8	0.29
GM-13	OK	9/8/2016 11:55	0.00	0.70	17.50	29.8	0.02
GM-14	OK	9/8/2016 11:58	0.00	0.40	17.90	29.8	0.00
GM-15	OK	9/8/2016 12:03	0.00	1.40	17.10	29.8	0.05
GM-16	OK	9/8/2016 12:06	0.00	1.00	17.30	29.8	-0.04
GM-17	OK	9/8/2016 12:09	0.00	1.00	17.50	29.8	-0.03

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, 82°F

FPM



Engineering and Environmental Science

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 1, 2016

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

Re: **Sonia Road Landfill**
October 2016 Landfill Gas Monitoring Results
FPM File No. 631-16-30

Dear Mr. Varrichio:

On October 6, 2016, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 3, 2016. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	10/6/2016 11:31	9.00	17.40	6.80	30.2	-31.31
GM-01	OK	10/6/2016 10:21	0.00	2.40	17.00	30.2	0.00
GM-02	OK	10/6/2016 10:26	0.00	2.20	17.20	30.2	0.00
GM-03	OK	10/6/2016 10:30	0.00	0.20	18.40	30.2	0.01
GM-04	OK	10/6/2016 10:34	0.00	3.20	15.50	30.2	0.02
GM-05	OK	10/6/2016 10:38	0.00	4.30	14.30	30.2	0.03
GM-06	OK	10/6/2016 10:42	0.00	1.10	17.50	30.2	0.04
GM-07	OK	10/6/2016 10:48	0.00	5.00	14.20	30.2	0.04
GM-08	OK	10/6/2016 10:52	0.00	2.50	16.40	30.2	0.03
GM-09	OK	10/6/2016 10:57	0.00	3.50	15.70	30.2	0.03
GM-10	OK	10/6/2016 11:01	0.00	1.00	17.90	30.2	0.02
GM-11	OK	10/6/2016 11:05	0.00	0.20	18.40	30.2	0.64
GM-12	OK	10/6/2016 11:09	0.00	0.40	18.30	30.2	-0.08
GM-13	OK	10/6/2016 11:15	0.00	2.70	15.80	30.2	0.01
GM-14	OK	10/6/2016 11:18	0.00	5.00	14.30	30.2	-0.01
GM-15	OK	10/6/2016 11:22	0.00	2.30	16.80	30.2	-0.08
GM-16	OK	10/6/2016 11:24	0.00	2.90	16.00	30.2	-0.06
GM-17	OK	10/6/2016 11:27	0.00	0.90	18.00	30.2	-0.03

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 - Scattered Clouds, 68°F

FPM



Engineering and Environmental Science

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 30, 2016

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

Re: **Sonia Road Landfill**
November 2016 Landfill Gas Monitoring Results
FPM File No. 631-16-30

Dear Mr. Varrichio:

On November 3, 2016, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 7, 2016. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:fac
Attachment

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

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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	11/3/2016 11:15	10.30	21.30	3.70	29.8	-35.09
GM-01	OK	11/3/2016 10:04	0.00	2.00	17.10	29.9	0.01
GM-02	OK	11/3/2016 10:09	0.00	2.00	17.20	29.9	0.03
GM-03	OK	11/3/2016 10:13	0.00	0.60	15.50	29.8	0.03
GM-04	OK	11/3/2016 10:18	0.00	5.50	12.50	29.8	0.05
GM-05	OK	11/3/2016 10:23	0.00	17.00	3.10	29.8	0.11
GM-06	OK	11/3/2016 10:28	0.00	1.30	17.50	29.8	0.09
GM-07	OK	11/3/2016 10:31	0.00	18.50	3.70	29.8	0.10
GM-08	OK	11/3/2016 10:38	0.00	7.30	11.00	29.8	0.01
GM-09	OK	11/3/2016 10:43	0.00	7.30	12.10	29.8	0.03
GM-10	OK	11/3/2016 10:47	0.00	2.10	17.00	29.8	0.03
GM-11	OK	11/3/2016 10:50	0.00	0.30	18.50	29.8	-0.05
GM-12	OK	11/3/2016 10:53	0.00	1.40	17.30	29.8	0.03
GM-13	OK	11/3/2016 10:55	0.00	6.70	11.60	29.8	0.01
GM-14	OK	11/3/2016 10:59	0.00	13.00	7.40	29.8	0.00
GM-15	OK	11/3/2016 11:04	0.00	2.10	16.70	29.8	0.05
GM-16	OK	11/3/2016 11:07	0.00	3.90	14.20	29.8	0.00
GM-17	OK	11/3/2016 11:10	0.00	1.50	17.70	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 - On

Weather - Partly Cloudy, 60°F

FPM



Engineering and Environmental Science

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 30, 2016

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

Re: **Sonia Road Landfill**
December 2016 Landfill Gas Monitoring Results
FPM File No. 631-16-30

Dear Mr. Varrichio:

On December 8, 2016, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 6, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	12/8/2016 10:22	9.90	19.20	5.60	29.8	-15.82
GM-01	OK	12/8/2016 10:24	0.00	1.70	16.80	29.9	0.00
GM-02	OK	12/8/2016 10:30	0.00	2.20	16.80	29.8	-0.02
GM-03	OK	12/8/2016 10:36	0.00	0.10	18.90	29.8	0.00
GM-04	OK	12/8/2016 10:40	0.00	0.90	17.70	29.8	0.00
GM-05	OK	12/8/2016 10:44	0.00	0.10	19.00	29.8	-0.10
GM-06	OK	12/8/2016 10:49	0.00	0.90	18.50	29.8	-0.06
GM-07	OK	12/8/2016 10:52	0.00	0.20	19.10	29.8	-0.08
GM-08	OK	12/8/2016 10:56	0.00	0.10	19.20	29.8	-0.06
GM-09	OK	12/8/2016 11:01	0.00	6.30	14.10	29.8	-0.05
GM-10	OK	12/8/2016 11:05	0.00	0.70	18.70	29.8	-0.04
GM-11	OK	12/8/2016 11:09	0.00	0.20	18.90	29.8	-0.19
GM-12	OK	12/8/2016 11:14	0.00	0.40	18.60	29.8	-0.17
GM-13	OK	12/8/2016 11:18	0.00	2.20	17.00	29.8	0.00
GM-14	OK	12/8/2016 11:23	0.00	2.10	16.90	29.8	-0.01
GM-15	OK	12/8/2016 11:27	0.00	1.60	17.50	29.8	-0.10
GM-16	OK	12/8/2016 11:32	0.00	2.60	16.60	29.8	-0.03
GM-17	OK	12/8/2016 11:34	0.00	0.80	18.30	29.8	-0.03

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 - Clear, 44°F

FPM



Engineering and Environmental Science

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

February 1, 2017

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

Re: **Sonia Road Landfill**
January 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On January 5, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 February 8, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

S:\Islip RRA\Reports\Sonia-Ltrs\2017 Letters\January.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	1/5/2017 10:31	7.30	16.10	6.90	29.9	-17.89
GM-01	OK	1/5/2017 10:33	0.00	1.40	17.40	29.9	-0.02
GM-02	OK	1/5/2017 10:36	0.00	1.60	17.70	29.9	-0.03
GM-03	OK	1/5/2017 10:42	0.00	0.10	19.50	29.9	0.02
GM-04	OK	1/5/2017 10:48	0.00	0.20	19.60	29.9	0.01
GM-05	OK	1/5/2017 10:52	0.00	0.10	19.70	29.9	-0.06
GM-06	OK	1/5/2017 10:58	0.00	0.80	19.30	29.8	-0.03
GM-07	OK	1/5/2017 11:03	0.00	0.70	19.50	29.8	-0.05
GM-08	OK	1/5/2017 11:07	0.00	1.30	18.90	29.8	-0.01
GM-09	OK	1/5/2017 11:11	0.00	5.40	14.80	29.8	0.00
GM-10	OK	1/5/2017 11:14	0.00	0.60	19.60	29.8	0.01
GM-11	OK	1/5/2017 11:18	0.00	0.30	19.50	29.8	-1.03
GM-12	OK	1/5/2017 11:23	0.00	0.20	19.30	29.8	-0.26
GM-13	OK	1/5/2017 11:29	0.00	1.70	18.10	29.8	0.00
GM-14	OK	1/5/2017 11:34	0.00	1.30	18.00	29.8	-0.03
GM-15	OK	1/5/2017 11:38	0.00	1.40	18.00	29.8	-0.34
GM-16	OK	1/5/2017 11:42	0.00	2.10	16.90	29.8	-0.06
GM-17	OK	1/5/2017 11:46	0.00	0.50	18.90	29.8	-0.05

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, 35°F

FPM



Engineering and Environmental Science

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

March 2, 2017

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

Re: **Sonia Road Landfill**
February 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On February 21, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 March 8, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	2/21/2017 10:27	9.30	16.20	7.30	30.2	-39.30
GM-01	OK	2/21/2017 10:30	0.00	1.20	17.50	30.3	0.02
GM-02	OK	2/21/2017 10:34	0.00	1.30	17.80	30.3	-0.08
GM-03	OK	2/21/2017 10:38	0.00	0.10	18.70	30.3	-0.05
GM-04	OK	2/21/2017 9:49	0.00	0.30	18.20	30.3	0.00
GM-05	OK	2/21/2017 9:51	0.00	2.00	16.30	30.3	0.02
GM-06	OK	2/21/2017 9:54	0.00	0.60	18.20	30.3	0.02
GM-07	OK	2/21/2017 9:56	0.00	0.70	18.20	30.2	0.00
GM-08	OK	2/21/2017 9:58	0.00	1.90	17.20	30.3	0.00
GM-09	OK	2/21/2017 10:01	0.00	3.30	16.10	30.3	0.00
GM-10	OK	2/21/2017 10:03	0.00	0.90	18.10	30.2	0.00
GM-11	OK	2/21/2017 10:06	0.00	0.20	18.70	30.2	-0.12
GM-12	OK	2/21/2017 10:09	0.00	0.20	18.70	30.3	-0.09
GM-13	OK	2/21/2017 10:12	0.00	1.10	18.00	30.2	0.00
GM-14	OK	2/21/2017 10:14	0.00	1.10	17.50	30.2	-0.04
GM-15	OK	2/21/2017 10:17	0.00	1.20	18.20	30.2	-0.04
GM-16	OK	2/21/2017 10:19	0.00	1.80	17.40	30.2	-0.09
GM-17	OK	2/21/2017 10:23	0.00	0.70	18.40	30.2	-0.07

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, 45°F

FPM



Engineering and Environmental Science

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

April 3, 2017

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

Re: **Sonia Road Landfill**
March 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On March 8, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 April 6, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:fac
Attachment

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

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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	3/8/2017 10:23	10.10	17.30	6.00	29.9	-17.11
GM-01	OK	3/8/2017 10:26	0.00	1.20	17.50	29.9	0.02
GM-02	OK	3/8/2017 10:30	0.00	1.40	17.60	29.9	-0.04
GM-03	OK	3/8/2017 10:34	0.00	0.10	18.70	29.9	-0.01
GM-04	OK	3/8/2017 10:37	0.00	0.40	18.20	29.9	0.00
GM-05	OK	3/8/2017 10:42	0.00	0.10	18.80	29.9	-0.26
GM-06	OK	3/8/2017 10:45	0.00	0.70	18.20	29.9	-0.08
GM-07	OK	3/8/2017 10:49	0.00	0.10	18.90	29.9	-0.14
GM-08	OK	3/8/2017 10:55	0.00	0.10	19.00	29.9	-0.06
GM-09	OK	3/8/2017 10:59	0.00	1.60	17.30	29.9	-0.06
GM-10	OK	3/8/2017 11:04	0.00	0.10	19.00	29.9	-0.03
GM-11	OK	3/8/2017 11:07	0.00	0.10	18.90	29.9	-0.19
GM-12	OK	3/8/2017 11:13	0.00	0.40	18.40	29.9	-0.10
GM-13	OK	3/8/2017 11:18	0.00	1.50	17.10	29.9	0.01
GM-14	OK	3/8/2017 11:23	0.00	1.80	16.50	29.9	-0.01
GM-15	OK	3/8/2017 11:27	0.00	1.20	17.60	29.9	-0.13
GM-16	OK	3/8/2017 11:31	0.00	2.40	15.60	29.9	-0.03
GM-17	OK	3/8/2017 11:34	0.00	0.90	18.10	29.9	-0.01

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 - Overcast, 55°F

FPM



Engineering and Environmental Science

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

May 3, 2017

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

Re: Sonia Road Landfill
April 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On April 13, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 May 8, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	4/13/2017 10:26	4.30	8.60	12.10	30.2	-41.01
GM-01	OK	4/13/2017 9:08	0.00	1.10	17.00	30.2	0.00
GM-02	OK	4/13/2017 9:12	0.00	1.50	16.90	30.2	0.01
GM-03	OK	4/13/2017 9:16	0.00	0.10	18.50	30.2	0.01
GM-04	OK	4/13/2017 9:22	0.00	0.30	18.40	30.2	0.02
GM-05	OK	4/13/2017 9:26	0.00	0.60	17.80	30.2	0.02
GM-06	OK	4/13/2017 9:29	0.00	0.70	18.30	30.2	0.03
GM-07	OK	4/13/2017 9:34	0.00	0.50	18.40	30.2	-0.02
GM-08	OK	4/13/2017 9:38	0.00	0.10	18.80	30.2	0.01
GM-09	OK	4/13/2017 9:42	0.00	0.50	18.50	30.2	0.02
GM-10	OK	4/13/2017 9:46	0.00	0.40	18.60	30.2	0.02
GM-11	OK	4/13/2017 9:50	0.00	0.40	18.50	30.2	-0.16
GM-12	OK	4/13/2017 9:54	0.00	0.20	18.70	30.2	-0.14
GM-13	OK	4/13/2017 9:58	0.00	0.30	18.60	30.2	0.02
GM-14	OK	4/13/2017 10:03	0.00	0.80	18.00	30.2	0.00
GM-15	OK	4/13/2017 10:07	0.00	0.80	18.10	30.2	-0.08
GM-16	OK	4/13/2017 10:12	0.00	1.10	17.60	30.2	-0.02
GM-17	OK	4/13/2017 10:15	0.00	0.70	18.10	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

Weather - Partly Cloudy, 62°F

FPM



Engineering and Environmental Science

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

June 7, 2017

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

Re: **Sonia Road Landfill**
May 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On May 11, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 June 8, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	5/11/2017 11:04	8.50	16.40	6.70	29.9	-38.75
GM-01	OK	5/11/2017 11:07	0.00	1.60	16.40	29.9	0.01
GM-02	OK	5/11/2017 11:11	0.00	2.20	15.80	29.9	-0.04
GM-03	OK	5/11/2017 11:14	0.00	0.10	18.00	29.9	-0.02
GM-04	OK	5/11/2017 11:19	0.00	0.60	17.10	29.9	-0.02
GM-05	OK	5/11/2017 11:23	0.00	0.10	17.90	29.9	-0.32
GM-06	OK	5/11/2017 11:27	0.00	1.10	17.20	29.9	-0.10
GM-07	OK	5/11/2017 11:30	0.00	0.10	17.90	29.9	-0.17
GM-08	OK	5/11/2017 11:35	0.00	0.10	18.00	29.9	-0.10
GM-09	OK	5/11/2017 11:39	0.00	0.70	17.40	29.9	-0.09
GM-10	OK	5/11/2017 11:43	0.00	0.10	18.20	29.9	-0.04
GM-11	OK	5/11/2017 11:48	0.00	0.60	17.70	29.9	-0.09
GM-12	OK	5/11/2017 11:51	0.00	0.40	17.90	29.9	-0.16
GM-13	OK	5/11/2017 11:57	0.00	1.50	17.00	29.9	-0.02
GM-14	OK	5/11/2017 12:00	0.00	1.60	16.70	29.9	-0.08
GM-15	OK	5/11/2017 12:04	0.00	1.40	17.10	29.9	-0.05
GM-16	OK	5/11/2017 12:07	0.00	1.80	16.50	29.9	-0.11
GM-17	OK	5/11/2017 12:11	0.00	1.30	17.40	29.9	-0.07

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, 65°F

FPM



Engineering and Environmental Science

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

July 5, 2017

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

Re: **Sonia Road Landfill**
June 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On June 8, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 July 6, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	6/8/2017 10:45	8.20	16.60	6.80	29.9	-38.06
GM-01	OK	6/8/2017 10:47	0.00	2.20	15.70	29.9	0.00
GM-02	OK	6/8/2017 10:50	0.00	3.60	14.40	29.9	-0.04
GM-03	OK	6/8/2017 10:55	0.00	0.10	17.80	29.9	-0.03
GM-04	OK	6/8/2017 10:59	0.00	0.70	17.10	29.9	-0.02
GM-05	OK	6/8/2017 11:06	0.00	0.10	17.60	29.9	-0.34
GM-06	OK	6/8/2017 11:11	0.00	1.50	16.70	29.9	-0.13
GM-07	OK	6/8/2017 11:15	0.00	0.10	17.60	29.9	-0.16
GM-08	OK	6/8/2017 11:20	0.00	0.10	17.60	29.9	-0.10
GM-09	OK	6/8/2017 11:24	0.00	0.90	16.80	29.9	-0.11
GM-10	OK	6/8/2017 11:29	0.00	0.10	17.80	29.9	-0.05
GM-11	OK	6/8/2017 11:34	0.00	0.10	17.80	29.9	-0.11
GM-12	OK	6/8/2017 11:39	0.00	0.40	17.50	29.9	-0.09
GM-13	OK	6/8/2017 11:44	0.00	1.90	16.40	29.9	-0.02
GM-14	OK	6/8/2017 11:49	0.00	2.00	16.40	29.9	-0.06
GM-15	OK	6/8/2017 11:54	0.00	2.00	16.50	29.9	-0.05
GM-16	OK	6/8/2017 11:58	0.00	1.80	16.50	29.9	-0.10
GM-17	OK	6/8/2017 12:06	0.00	2.00	16.60	29.9	-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 - On

Weather - Partly Cloudy, 75°F

FPM



Engineering and Environmental Science

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 1, 2017

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

Re: **Sonia Road Landfill**
July 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On July 6, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 4, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

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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	7/6/2017 10:48	7.70	16.70	6.80	30.1	-36.10
GM-01	OK	7/6/2017 10:50	0.00	3.00	15.60	30.1	-0.01
GM-02	OK	7/6/2017 10:54	0.00	5.60	13.70	30.1	-0.04
GM-03	OK	7/6/2017 10:58	0.00	0.10	17.60	30.1	-0.04
GM-04	OK	7/6/2017 11:01	0.00	0.10	17.60	30.1	0.04
GM-05	OK	7/6/2017 11:05	0.00	0.10	17.50	30.1	-0.25
GM-06	OK	7/6/2017 11:09	0.00	1.60	16.50	30.1	-0.10
GM-07	OK	7/6/2017 11:14	0.00	3.30	14.90	30.0	-0.12
GM-08	OK	7/6/2017 11:19	0.00	0.10	17.50	30.0	-0.07
GM-09	OK	7/6/2017 11:24	0.00	2.60	15.60	30.0	-0.07
GM-10	OK	7/6/2017 11:28	0.00	0.10	17.60	30.0	-0.05
GM-11	OK	7/6/2017 11:33	0.00	0.10	17.60	30.1	0.09
GM-12	OK	7/6/2017 11:38	0.00	0.60	17.30	30.0	-0.04
GM-13	OK	7/6/2017 11:43	0.00	0.10	17.70	30.0	0.00
GM-14	OK	7/6/2017 11:47	0.00	2.80	15.70	30.0	-0.05
GM-15	OK	7/6/2017 11:53	0.00	2.50	16.00	30.0	0.00
GM-16	OK	7/6/2017 11:59	0.00	2.50	15.80	30.0	-0.08
GM-17	OK	7/6/2017 12:06	0.00	2.00	16.40	30.0	-0.06

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 - Overcast, 80°F

FPM



Engineering and Environmental Science

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 5, 2017

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

Re: **Sonia Road Landfill**
August 2017 Landfill Gas Monitoring Results
FPM File No. 631-17-34

Dear Mr. Varrichio:

On August 4, 2017, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GEM 2000 Gas Analyzer.

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 8, 2017. 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. 242.

Sincerely,

Chris Linkletter
Hydrogeologist

CL:tac
Attachment

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

S:\Islip RRA\Reports\Sonia-Ltrs\2017 Letters\August.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	8/4/2017 10:23	9.20	15.80	6.60	30.0	-37.50
GM-01	OK	8/4/2017 10:19	0.00	2.80	16.20	30.0	0.00
GM-02	OK	8/4/2017 10:26	0.00	2.90	16.00	30.0	0.00
GM-03	OK	8/4/2017 10:30	0.00	0.10	17.60	30.0	0.01
GM-04	OK	8/4/2017 10:35	0.00	1.10	16.40	30.0	0.00
GM-05	OK	8/4/2017 10:42	0.00	0.10	17.40	30.0	-0.19
GM-06	OK	8/4/2017 10:46	0.00	1.10	16.70	30.0	-0.08
GM-07	OK	8/4/2017 10:50	0.00	2.60	15.30	30.0	-0.11
GM-08	OK	8/4/2017 10:55	0.00	2.00	15.80	30.0	-0.07
GM-09	OK	8/4/2017 11:00	0.00	0.80	16.70	30.0	-0.08
GM-10	OK	8/4/2017 11:05	0.00	0.80	16.80	30.0	0.15
GM-11	OK	8/4/2017 11:08	0.00	0.30	17.30	30.0	0.00
GM-12	OK	8/4/2017 11:13	0.00	0.40	17.30	30.0	-0.06
GM-13	OK	8/4/2017 11:18	0.00	0.00	17.70	30.0	0.00
GM-14	OK	8/4/2017 11:21	0.00	1.90	16.00	30.0	-0.05
GM-15	OK	8/4/2017 11:26	0.00	2.20	16.00	30.0	0.02
GM-16	OK	8/4/2017 11:30	0.00	1.70	16.20	30.0	-0.08
GM-17	OK	8/4/2017 11:36	0.00	1.40	16.60	30.0	-0.07

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 - Overcast, 83°F

FPM

APPENDIX C
GROUNDWATER WELL CONDITION REPORT
NOVEMBER 13, 2017



**D&B ENGINEERS
AND
ARCHITECTS, P.C.**

330 Crossways Park Drive, Woodbury, New York 11797

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November 13, 2017

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

Re: Sonia Road Landfill
Well Condition Report
D&B No. 3371-11B

Dear Mr. Varrichio:

Enclosed please find the August 2017 Well Condition Report for the Sonia Road Landfill. This report consists of Table 1, which presents a summary of monitoring well status and deficiencies along with recommendations. In addition, individual monitoring well inspection checklists are included.

If you have any questions or require additional information, please contact me at (516) 364-9890, Ext. 3058.

Very truly yours,

Keith S. Robins
Project Manager

KSR/cf
Enclosure
♦3371\KSR17Ltr-01

Table 1
SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
SUMMARY OF MONITORING WELL STATUS AND DEFICIENCIES
AUGUST 2017 SAMPLING EVENT

Well Designation	Surface Concrete Pad			Ponded Water Around Concrete Seal	Protective Flush-Mounted Cover/Standpipe Cover and Lock		Well Casing Alignment	Survey Measuring Point Marked	Well Labeled	Well Protected	Remarks and Recommendations
	Intact	Cracked	Missing		Cover/Pipe - Intact	Lock - In Place					
MW-01S	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-01I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-01D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-02I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-02D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-03S			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-03I			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-03D	Yes			No	Yes	Yes	Straight	No	Yes	Yes	Top of PVC well appeared to be saw cut. Resurvey well for vertical control.
MW-04S	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-04I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-04D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-05S	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-05I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-05D		Yes		No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-06S	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-06I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-06D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-07S	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-07I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-07D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-10S	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-10I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-10D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.

Table 1 (continued)
SONIA ROAD LANDFILL
POST CLOSURE GROUNDWATER MONITORING PROGRAM
SUMMARY OF MONITORING WELL STATUS AND DEFICIENCIES
AUGUST 2017 SAMPLING EVENT

Well Designation	Surface Concrete Pad			Ponded Water Around Concrete Seal	Protective Flush-Mounted Cover/Standpipe Cover and Lock		Well Casing Alignment	Survey Measuring Point Marked	Well Labeled	Well Protected	Remarks and Recommendations
	Intact	Cracked	Missing		Cover/Pipe - Intact	Lock - In Place					
MW-11S	Yes			No	Yes	Yes	Straight	No	Yes	Yes	Top of PVC well appeared to be saw cut. Re-survey well for vertical control. Protective flush mounted inner vault filled with mud. D&B removed mud. No action required.
MW-11I	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	Protective flush mounted inner vault filled with mud. D&B removed mud. No action required.
MW-11D	Yes			No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-12S			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-12I			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-12D			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-13S			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-13I			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-13D			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-14S			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.
MW-14I			Not visible	No	Yes	Yes	Straight	No	Yes	Yes	Top of PVC well appeared to be saw cut. Re-survey well for vertical control.
MW-14D			Not visible	No	Yes	Yes	Straight	Yes	Yes	Yes	No action required.

APPENDIX D
OMNTEC FIELD TEST RESULTS
AUGUST 30, 2017

---OMNITEC Mfg., Inc.
Tel: 1(631)981-2001
Fax: 1(631)981-2007

---SITE INFORMATION:
Name: Town Of Islip
Addr: SONIA ROAD LANDFILL
ID#: ELO18627
VER 4.22 PR 030603
AUG 30, 2017 02:05 PM

---OMNITEC PROBE
WE 08/30/17 14:05:33
Tank 1
Product Type: Leachate
Product Height: 5.67(In)
Water: 1.29(In)
Gross Volume: 227.67(G)
T.C.: 184.54(G)
Water: 42.52(G)
Ullage: 5601.33(G)
TEMP.: 67.46(F)

*CONDENSATE TANK
STICK MEASURED
10"= 506 GAL*

---OMNITEC Mfg., Inc.
Tel: 1(631)981-2001
Fax: 1(631)981-2007

---SITE INFORMATION:
Name: Town Of Islip
Addr: SONIA ROAD LANDFILL
ID#: ELO18627
VER 4.22 PR 030603
AUG 30, 2017 02:05 PM

---Testing PROM
PROM Tests OK

---Testing RAM PASSED
---Parameter Flash Used 0.84%

---Check Slot
Slot 1 Annunciator Board
Slot 2 Relay Board
Slot 3 Relay Board

---Testing Level Probes
T# PRODUCT TYPE TEST
T1 Leachate P

---Testing Leak Sensors
S# P/N LABEL TEST
01 BXPDS SOUTH SUMP P
(S/N: 200153248)
02 BXPDS T 1, Sump#: 1 P
(S/N: 200080154)
03 BXPDMF T 1, Dble_Wall#: 1 P
(S/N: 210030803)
04 BXUT1 Caution Level P
(S/N: 500031027)

S#= SENSOR NUMBER, P/N= PART NUMBER,
T#= TANK, S/N= SENSOR SERIAL NUMBER,
P=PASS, A=ALARM, F=FAIL, NR=NO REPLY

APPENDIX E
CARS STORED ON SITE
JULY 2016 THROUGH AUGUST 2017

TOTAL FOR FAZ

Tuesday, July 26, 2016

ADVANTAGE HONDA	47
ADVANTAGE TOYOTA	362
ATANTIC AUDI	8
ATLANTIC CADDY	16
ATLANTIC CHEVY	70
ATLANTIC DODGE	3
ATLANTIC HONDA	589
ATLANTIC HYUNDAI	505
ATLANTIC NISSAN	534
ATLANTIC TOYOTA	272
HUNTINGTON TOYOTA	155
MASSAPEQUA NISSAN	589
MILLENNIM HONDA	192
MILLENNIUM HYUNDAI	170
TOTAL	3342

TOTAL FOR FAZ

Tuesday August 24, 2016

ADVANTAGE HONDA	100
ADVANTAGE TOYOTA	308
ATANTIC AUDI	13
ATLANTIC CADDY	12
ATLANTIC CHEVY	155
ATLANTIC DODGE	6
ATLANTIC HONDA	559
ATLANTIC HYUNDAI	636
ATLANTIC NISSAN	624
ATLANTIC TOYOTA	270
BRITTINGTON TOYOTA	150
CHESAPEQUA NISSAN	661
EMMENIUM HONDA	223
EMMENIUM HYUNDAI	188
TOTAL	3905

TOTAL FOR FAZ

TUESDAY SEPTEMBER 27, 2016

ADVANTAGE HONDA	99
ADVANTAGE TOYOTA	308
ATANTIC AUDI	11
ATLANTIC CADDY	36
ATLANTIC CHEVY	212
ATLANTIC DODGE	7
ATLANTIC HONDA	587
ATLANTIC HYUNDAI	562
ATLANTIC NISSAN	520
ATLANTIC TOYOTA	161
HUNTINGTON TOYOTA	104
MASSAPEQUA NISSAN	555
MILLENNIM HONDA	263
MILLENNIUM HYUNDAI	217
TOTAL	3642

TOTAL FOR FAZ

THURSDAY NOVEMBER 3, 2016

ADVANTAGE HONDA	176
ADVANTAGE TOYOTA	305
ATANTIC AUDI	39
ATLANTIC CADDY	46
ATLANTIC CHEVY	419
ATLANTIC DODGE	4
ATLANTIC HONDA	693
ATLANTIC HYUNDAI	462
ATLANTIC NISSAN	428
ATLANTIC TOYOTA	189
HUNTINGTON TOYOTA	133
MASSAPEQUA NISSAN	514
MILLENNIM HONDA	286
MILLENNIUM HYUNDAI	198
TOTAL	3892

TOTAL FOR FAZ

Wednesday, November 23, 2016

ADVANTAGE HONDA	185
ADVANTAGE TOYOTA	315
ATANTIC AUDI	40
ATLANTIC CADDY	61
ATLANTIC CHEVY	330
ATLANTIC DODGE	3
ATLANTIC HONDA	650
ATLANTIC HYUNDAI	440
ATLANTIC NISSAN	430
ATLANTIC TOYOTA	210
HUNTINGTON TOYOTA	145
MASSAPEQUA NISSAN	525
MILLENNIM HONDA	370
MILLENNIUM HYUNDAI	195
TOTAL	3899

TOTAL FOR FAZ

TUESDAY DECEMBER 27, 2016

ADVANTAGE HONDA	104
ADVANTAGE TOYOTA	288
ATANTIC AUDI	38
ATLANTIC CADDY	64
ATLANTIC CHEVY	366
ATLANTIC DODGE	2
ATLANTIC HONDA	660
ATLANTIC HYUNDAI	428
ATLANTIC NISSAN	488
ATLANTIC TOYOTA	355
HUNTINGTON TOYOTA	183
MASSAPEQUA NISSAN	480
MILLENNIM HONDA	313
MILLENNIUM HYUNDAI	159
TOTAL	3928

TOTAL FOR FAZ

THURSDAY JANUARY 26, 2017

ADVANTAGE HONDA	121
ADVANTAGE TOYOTA	347
ATANTIC AUDI	17
ATLANTIC CADDY	45
ATLANTIC CHEVY	303
ATLANTIC DODGE	3
ATLANTIC HONDA	545
ATLANTIC HYUNDAI	416
ATLANTIC NISSAN	445
ATLANTIC TOYOTA	370
HUNTINGTON TOYOTA	142
MASSAPEQUA NISSAN	500
MILLENNIM HONDA	320
MILLENNIUM HYUNDAI	183
ATLANTIC VOLKSWAGEN	52

TOTAL 3809

TOTAL FOR FAZ

TUESDAY FEBUARY 21, 2017

ADVANTAGE HONDA	129
ADVANTAGE TOYOTA	370
ATANTIC AUDI	17
ATLANTIC CADDY	44
ATLANTIC CHEVY	286
ATLANTIC DODGE	0
ATLANTIC HONDA	535
ATLANTIC HYUNDAI	383
ATLANTIC NISSAN	570
ATLANTIC TOYOTA	345
HUNTINGTON TOYOTA	161
MASSAPEQUA NISSAN	515
MILLENNIM HONDA	285
MILLENNIUM HYUNDAI	227
ATLANTIC VOLKSWAGEN	38

TOTAL 3905

TOTAL FOR FAZ

WEDESNDAY MARCH 29, 2017

ADVANTAGE HONDA	107
ADVANTAGE TOYOTA	345
ATANTIC AUDI	16
ATLANTIC CADDY	48
ATLANTIC CHEVY	262
ATLANTIC HONDA	535
ATLANTIC HYUNDAI	505
ATLANTIC NISSAN	502
ATLANTIC TOYOTA	373
HUNTINGTON TOYOTA	132
MASSAPEQUA NISSAN	515
MILLENNIM HONDA	292
MILLENNIUM HYUNDAI	214
ATLANTIC VOLKSWAGEN	42
TOTAL	3888

TOTAL FOR FAZ

TUESDAY APRIL 25, 2017

ADVANTAGE HONDA	107
ADVANTAGE TOYOTA	427
ATANTIC AUDI	27
ATLANTIC CADDY	30
ATLANTIC CHEVY	191
ATLANTIC HONDA	545
ATLANTIC HYUNDAI	413
ATLANTIC NISSAN	515
ATLANTIC TOYOTA	428
HUNTINGTON TOYOTA	0
MASSAPEQUA NISSAN	489
MILLENNIM HONDA	317
MILLENNIUM HYUNDAI	272
ATLANTIC VOLKSWAGEN	40
TOTAL	3801

TOTAL FOR FAZ

WEDNESDAY MAY 24, 2017

ADVANTAGE HONDA	110
ADVANTAGE TOYOTA	345
ATANTIC AUDI	35
ATLANTIC CADDY	34
ATLANTIC CHEVY	290
ATLANTIC HONDA	554
ATLANTIC HYUNDAI	366
ATLANTIC NISSAN	505
ATLANTIC TOYOTA	436
HUNTINGTON TOYOTA	0
MASSAPEQUA NISSAN	513
MILLENNIM HONDA	339
MILLENNIUM HYUNDAI	260
ATLANTIC VOLKSWAGEN	63
TOTAL	3850

CARS ON HILL

June 29, 2017

ADVANTAGE HONDA: 71

ADVANTAGE TOYOTA: 346

ATLANTIC AUDI: 36

ATLANTIC CADDY: 25

ATLANTIC CHEVY: 130

ATLANTIC HONDA: 609

ATLANTIC HYUNDAI: 278

ATLANTIC NISSAN: 547

ATLANTIC TOYOTA: 324

ATLANTIC VOLKSWAGEN: 68

HUNTINGTON CHEVY: 321

LEXUS OF 110: 243

MASSAPEQUA NISSAN: 370

MILLENIUM HONDA: 273

MILLENIUM HYUNDAI: 179

CARS IN TOTAL: 3820

TOTAL FOR FAZ

THURSDAY July 27, 2017

ADVANTAGE HONDA	24
ADVANTAGE TOYOTA	373
ATANTIC AUDI	26
ATLANTIC CADDY	20
ATLANTIC CHEVY	186
ATLANTIC HONDA	451
ATLANTIC HYUNDAI	395
ATLANTIC NISSAN	516
ATLANTIC TOYOTA	208
ATLANTIC VOLKSWAGON	115
HUNTINGTON CHEVY	285
LEXUS OF 110	124
LEXUS RVC	32
MASSAPEQUA NISSAN	471
MILLENIUUM HONDA	205
MILLENIUUM HYUNDAI	193
TOTAL:	3624

9/7/17

ATLANTIC CENTRAL STORAGE	INVENTORY
HILL	
ADVANTAGE HONDA	0
ADVANTAGE TOYOTA	248
ATLANTIC AUDI	23
ATLANTIC CADDY	53
ATLANTIC CHEVY	223
ATLANTIC HONDA	276
ATLANTIC HYUNDAI	361
ATLANTIC NISSAN	535
ATLATIC TOYOTA	153
ATLANTIC VOLKSWAGON	138
HUNTINGTON CHEVY	220
ATLANTIC LEXUS	66
RVC LEXUS	12
MASSAPEQUA NISSAN	344
MILLENIUM HONDA	131
VILLENIUM HYUNDAI	207
TOTAL	2990