



July 3, 2008

JUL - 9 2008

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Bureau of Construction Services  
625 Broadway, 12<sup>th</sup> 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:

Attached please find the Second Quarter Sonia Road Post Closure Monitoring Report for 2008. Also included is the April, May and June 2008 Gas Migration Monitoring Report; the Second Quarter Groundwater Monitoring Well Condition Report as well as the total number of cars stored on site.

If there are any questions please contact me at (631) 224-5645.

Sincerely,

Alan R. Sanchez  
Vice-President of Operations

ARS:lmb

cc: Christopher A. Andrade, President  
Anthony J. Varrichio, P.E., Chief Engineer  
Joe Cosci, Construction Coordinator  
File

lmb\_NYSDEC\_7-3-08\_Trad\_Rpt\_Sonia Rd 2007 2nd Quart 2008 PCMR.wpd



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

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



**POST CLOSURE  
MONITORING AND MAINTENANCE REPORT**

APRIL THROUGH JUNE  
2008

JUL - 9 2008

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

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## **SITE INSPECTION CHECKLIST**

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

VEGETATIVE COVER

DATE: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHMAN

| GRID I.D. | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS |
|-----------|--------------|---------------|-------------|----------|
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |

| 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: Fazil Rahman

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

SOIL COVER

DATE: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHAMAN

| GRID I.D. | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS |
|-----------|--------------|---------------|-------------|----------|
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |
|           |              |               | Y/N #       |          |

| PROBLEM CODE |                    |   |                       |
|--------------|--------------------|---|-----------------------|
| a            | erosion damage     | g | waste breakthrough    |
| b            | slope movement     | h | leachate breakthrough |
| c            | ponding (>10'x10') | 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: Fazil Rahman

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

REVETMENT MATTING (RIP RAP)

DATE: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHAMAN

| GRID I.D.          | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS                                 |
|--------------------|--------------|---------------|-------------|--|
| <b>Side Slopes</b> |              |               |             |  |
|                    |              |               | Y/N #       |  |
|                    |              |               | Y/N #       |  |
|                    |              |               | Y/N #       |  |
|                    |              |               | Y/N #       |  |
| <b>Gabion Curb</b> |              |               |             |  |
| 3B                 | L            | 4             | Y/N #       | REF TO PHOTO'S FROM OB. I SECTR. REPORT. |
|                    |              |               | Y/N #       |  |
|                    |              |               | Y/N #       |  |
|                    |              |               | Y/N #       |  |

| 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 | DEPRESSION            |

| 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: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHAMAN

| GRID I.D.  | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS  |
|------------|--------------|---------------|-------------|---|
| A3, A4, B5 | A            | 4             | Y/N #       |   |
| C5, D5, E5 | G            | —             | Y/N #       | BEING MONITORED BY T. PHOTOS FROM 08, 15 <sup>th</sup> QTR. WORK. |
| D1, H2, H5 | H            | H             | Y/N #       |   |
|            |              |               | Y/N #       |   |
|            |              |               | Y/N #       |   |
|            |              |               | Y/N #       |   |
|            |              |               | Y/N #       |   |
|            |              |               | Y/N #       |   |
|            |              |               | Y/N #       |   |
|            |              |               | Y/N #       |   |

| PROBLEM CODE |                     |   |             |
|--------------|---------------------|---|-------------|
| a            | potholes            | g | depressions |
| b            | burrow holes        | h |             |
| 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: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: EZIL RAHAMAN

| GRID I.D.               | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS  |
|-------------------------|--------------|---------------|-------------|---|
| <b>Perimeter Swales</b> |              |               |             |   |
| E5, F5                  | B            | 7             | Y (N) #     | BE: TE HOLES, UNUSUALLY THIN.                         |
| G1, H4                  | G            | 6             | Y (N) #     | BE: TO PHOTO FROM OS, 15' OUT PERM.                   |
|                         |              |               | Y/N #       |   |
|                         |              |               | Y/N #       |   |
| <b>Diversion Swales</b> |              |               |             |   |
| G5, H5                  | E            | 5             | Y (N) #     | AROUND CULVERT'S LEAD TO END.                         |
| B4                      | F            | 1             | Y (N) #     | REMOVE TREE STUMP BE: TO PHOTO FROM OS, 15' OUT PERM. |
|                         |              |               | Y/N #       |   |
|                         |              |               | Y/N #       |   |

| 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 |                        |
| 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.

1 - BEING MONITORED

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: 6/10/09

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHMAN

| GRID I.D.               | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN            | COMMENTS                    |
|-------------------------|--------------|---------------|------------------------|-----------------------------|
| <b>Inlet Structures</b> |              |               |                        |                             |
|                         |              |               | Y/N #                  |                             |
|                         |              |               | Y/N #                  |                             |
|                         |              |               | Y/N #                  |                             |
|                         |              |               | Y/N #                  |                             |
| <b>Rip Rap Drainway</b> |              |               | <b>Culvert Outlets</b> |                             |
| B11                     | E            | 4             | Y/N # 1                | REMOVE UNWANTED VEGETATION. |
| C4                      | L            | 4             | Y/N # 1                | REMOVE WOOD/VEGETATION.     |
|                         |              |               | Y/N #                  |                             |
|                         |              |               | Y/N #                  |                             |

| 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: \_\_\_\_\_

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

STORMWATER COLLECTION SYSTEM (3 of 4)

DATE: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: LAZAR RASHADAN

| GRID I.D.                 | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS                    |
|---------------------------|--------------|---------------|-------------|-----------------------------|
| <b>Energy Dissipators</b> |              |               |             |                             |
|                           |              |               | Y/N #       |                             |
|                           |              |               | Y/N #       |                             |
|                           |              |               | Y/N #       |                             |
|                           |              |               | Y/N #       |                             |
| <b>Downchutes</b>         |              |               |             |                             |
| B4                        | L            | 4             | Y(N)#       | UN-WANTED WOODY VEGETATION. |
| B5                        | M            | 4             | Y(N)#       | UN-WANTED VEGETATIVE COVER. |
|                           |              |               | Y/N #       |                             |
|                           |              |               | Y/N #       |                             |

| 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.

*M-VEGETATIVE COVER*

If Energy Dissipators and Downchutes 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 (4 of 4)**

**DATE:** 6/10/08

Quarterly Inspection  Storm Inspection

**INSPECTION BY:** FAZIL RAHMAN

| GRID I.D.                 | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS  |
|---------------------------|--------------|---------------|-------------|---|
| <b>Drywells</b>           |              |               |             |   |
|                           |              |               | Y/N #       |   |
|                           |              |               | Y/N #       |   |
|                           |              |               | Y/N #       |   |
|                           |              |               | Y/N #       |   |
| <b>Culverts / Outlets</b> |              |               |             |   |
| A3, A5, B5,               | E            | 4             | Y(N)#       | UNWANTED VEGETATIVE COVER AROUND CULVERT'S/OUTLET |
| D1, E1, G1,               | E            | 4             | Y(N)#       | " - " " " " " " " " "                             |
| H1, G4, H2                | E            | 4             | Y(N)#       | " - " " " " " " " " "                             |
|                           |              |               | Y/N #       |   |

| 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                        |
| 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: 6/10/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHAMAN

| GRID I.D.                   | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS            |
|-----------------------------|--------------|---------------|-------------|---------------------|
| <b>Recharge Basin No. 1</b> |              |               |             |                     |
| <i>A3</i>                   | <i>A</i>     | <i>4</i>      | Y/N #       | <i>ACCESS ROAD.</i> |
|                             |              |               | Y/N #       |                     |
|                             |              |               | Y/N #       |                     |
|                             |              |               | Y/N #       |                     |
| <b>Recharge Basin No. 2</b> |              |               |             |                     |
| <i>A5</i>                   | <i>A</i>     | <i>4</i>      | Y/N #       | <i>ACCESS ROAD.</i> |
|                             |              |               | Y/N #       |                     |
|                             |              |               | Y/N #       |                     |
|                             |              |               | Y/N #       |                     |

| 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: \_\_\_\_\_

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

**MONITORING WELLS**

DATE: 6/19/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHMAN

| ITEM I.D.                            | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS   |
|--------------------------------------|--------------|---------------|-------------|--|
| <b>Landfill Gas Monitoring Wells</b> |              |               |             | See well condition reports prepared by Town consultants.                             |
| 13814                                | C            | SEE MEMO      | Y (N) #     | RE: TO ATTACHED PHOTO RANDOM DATED 11/16/06  |
| 7                                    | C            | ---           | Y (N) #     | SIMILAR RECOMMUNICATION AS OUTLINED FOR GM 13814                                     |
|                                      |              |               | Y/N #       |  |
|                                      |              |               | Y/N #       |  |
| <b>Groundwater Monitoring Wells</b>  |              |               |             | See well condition reports prepared by Town consultants.                             |
| USA 11D                              | C            | SEE MEMO      | Y (N) #     | RE: TO ATTACHED PHOTO CONDUCTED 11/16/06 H <sub>2</sub> M 2 <sup>ND</sup> QTR REPORT |
| OIE                                  | E&F          | 4             | Y (N) #     | MISSING AS PER H <sub>2</sub> M 2 <sup>ND</sup> QTR REPORT                           |
| 2IA 6D                               | E            | 4             | Y (N) #     | CRACKED AS PER H <sub>2</sub> M 2 <sup>ND</sup> QTR REPORT                           |
| 2DA 11D                              | E&G          | 4             | Y (N) #     | MISSING AS PER H <sub>2</sub> M 2 <sup>ND</sup> QTR REPORT                           |
| 135                                  | E            | 4             | Y (N) #     | MISSING AS PER H <sub>2</sub> M 2 <sup>ND</sup> QTR REPORT                           |

| PROBLEM CODE |                    |
|--------------|--------------------|
| a            | damage             |
| b            | vandalism          |
| c            | settlement         |
| d            | vector infestation |
| e            | J-PLUG             |
| f            | MANHOLE COVER      |
| G            | LOCK               |

| 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**

DATE: 6/1/09

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RAHMAN

| ITEM I.D.                                | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN | COMMENTS                                  |
|--|--------------|---------------|-------------|---|
| <b>LFG Recovery Wells / Valve Vaults</b> |              |               |             | RE: TO PG. 14 FOR ADDITIONAL INFORMATION. |
| 13                                       | N            | 1             | YIN # 2     |   |
| 18                                       | M            | 4             | YIN # 1     |   |
|  |              |               | YIN #       |   |
|  |              |               | YIN #       |   |
| <b>LFG Collection Wells (GC1 - GC16)</b> |              |               |             | RE: TO PG. 14 FOR ADDITIONAL INFORMATION. |
| 3  | N            | 1             | YIN # 2     |   |
| 2, 6, 7                                  | D            | 7             | YIN # 4     |   |
| 8  | D            | 3             | YIN # 2     |   |
| 5  | D            | 7             | YIN #       |   |

| PROBLEM CODE |                       |
|--------------|-----------------------|
| a            | odor                  |
| b            | damage                |
| c            | vandalism             |
| d            | settlement            |
| e            | vector infestation    |
| f            | no vacuum             |
| g            | broken valve          |
| h            | broken piping         |
| i            | exposed geosynthetics |
| j            | damage / instability  |
| k            | soil erosion around   |
| 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.

A OVER GROUND VEGETATION  
N STANDING WATER  
7 BEING MONITORED

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

Signature: \_\_\_\_\_

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

LANDFILL GAS COMPOUND

DATE: 6/25/08

Quarterly Inspection

Storm Inspection

INSPECTION BY: FAZIL RAHAMAN

| ITEM I.D.                                     | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN  | COMMENTS   |
|---|--------------|---------------|--|--|
| <b>Blower Pad / Blower Nos. 104A and 104B</b> |              |               |  |  |
| 104B  | JAK          | 4             | YIN # 2  | OUT LET GAUGE & OIL LEAK BETWEEN ROLLER/HOUSING. |
| 104A  | J            | 4             | YIN #  | OUT LET GAUGE.                                   |
| <b>Flare</b>                                  |              |               |  |  |
|   |              |               | YIN #  | USED FOR VENTING ONLY                            |
|   |              |               | YIN #  |  |
| <b>Condensate Storage</b>                     |              |               | Liquid Volume = <u>2,814</u> gallons Alarms: Y(N) Test System: (OK) / Not Successful |  |
| ACCESS COVERS                                 | L            | 4             | YIN #  | REPLACE BROKEN BOLTS ON WITH DRAWEL PIPE         |
|   |              |               | YIN #  | ACCESS COVER.                                    |

| 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 | OIL LEAK      |
| f            | alarms           | l | SEAL/GASKET   |

| 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 Landfill Gas Compound is acceptable, check box and sign below.

Signature: \_\_\_\_\_



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

**SITE FACILITIES**

DATE: 6/25/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL RANGMAN

| ITEM I.D.                                       | PROBLEM CODE | PRIORITY CODE | PHOTO TAKEN                               | COMMENTS  |
|---|--------------|---------------|---|---|
| <b>Electrical Panels and Control Panels</b>     |              |               |   | Lights tested: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| FLARE   | G<br>C       | 4<br>—        | Y <input checked="" type="checkbox"/> N # | 104B SLIPP FUEL INLET 104B OPEN.<br>FLARE ARRESTOR OVER RANGE AL.               |
| A&B STARTER                                     | G            | 4             | Y <input checked="" type="checkbox"/> N # |   |
| <b>Gates / Locks / Signs</b>                    |              |               |   |   |
|   |              |               | Y <input type="checkbox"/> N #            |   |
| <b>Fencing (identify location by Grid I.D.)</b> |              |               |   |   |
| EL, F1  | I&J          | SEE MEMO.     | Y <input checked="" type="checkbox"/> N # | SEE ATTACHED MEMORANDUM DATED 11/6/06<br>RE: TD PHOTO'S PREVIOUSLY TAKEN.       |
| —   | —            | —             | Y <input type="checkbox"/> N #            |   |
| <b>Site Trailer</b>                             |              |               |   |   |
|   |              |               | Y <input type="checkbox"/> N #            |   |

| PROBLEM CODE |                      |   |                          |
|--------------|----------------------|---|--------------------------|
| a            | damage               | g | replace indicator lights |
| b            | vandalism            | h | tripped / reset required |
| c            | alarms               | i | SLOPE MOVEMENT           |
| d            | missing locks        | j | FENCE MOVEMENT           |
| 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: 6/10 - 6/25/08

Quarterly Inspection  Storm Inspection

INSPECTION BY: FAZIL R. H. M. T. H.

ADDITIONAL COMMENTS AS REQUIRED

LFG-RECOVERY WELLS VAPORS #16, 17, 18 & 10 - WILL BE INSPECTED NEXT QUARTER.

LFG-COLLECTION WELLS, #9 THROUGH 16 - WILL BE INSPECTED NEXT QUARTER.

WELLS #9, 12 - BEING MONITORED, P.U.C. HEADER PIPE OFF CENTER  
IN RELATION TO ACCESS OPENING & CLOSE TO PRE-CAST.  
RE: TO PHOTO'S PREVIOUSLY TAKEN.

WELL #11 - BOOTH EXTENSION PRESSING UP AGAINST SLUMP OPENING.  
RE: TO 2 PHOTOS TAKEN ON 3/6/08.

WELL #13 - P.U.C. HEADER PIPE, UNDER LIP OF PRE-CAST (PREVIOUS ADJ.  
HAVING BEEN MADE) RE: TO PHOTO TAKEN 3/6/08

WELLS #14, 15, 16 - BEING MONITORED, MINIMAL CLEARANCE BETWEEN  
P.U.C. HEADER PIPE & ACCESS COVER ALSO CLOSE TO  
PRE-CAST. RE: TO PHOTO'S PREVIOUSLY TAKEN

GROUND WATER MONITORING - WELL - 06E, VAPOR GAS NOT DETECTED.

WELLS - 115A 11D - DIFFICULT TO LOCATE DUE TO PARTIAL BURIAL OF MONITOR.

NOTE: ATTACHED ARE 14 PHOTO'S, MEMORANDUM DATED 11/16/06, FROM APRIL, MAY, JUNE, 08 GAS  
MONITORING RESULTS, H2M 2008 2<sup>ND</sup> QTR. REPORT & ATLANTIC AUTO CAR COUNT DATED 6/23/08.

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

Signature: \_\_\_\_\_





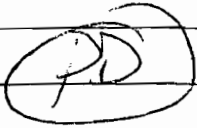






## MEMORANDUM

TO: Christopher Andrade, President

FROM: Paul J. DiMaria, PE, Chief Engineer 

DATE: November 16, 2006

RE: Conditions at Sonia Road Landfill

The Post Closure Monitoring Inspection recently completed by Operations personnel revealed several conditions at Sonia Road Landfill and environs that require attention. On the morning of November 14<sup>th</sup> Fazil Rahaman and Francis D. Ribaud, PE visited the site to inspect the areas of concern and later that same day Mr. Ribaud and I visited the site for the same reason. Our observations and recommendations are listed below:

- Condition:** Groundwater monitoring wells MW11S and MW 11D wells ( located near the SCATT Property) are buried.

**Problem:** It is difficult or impossible to get to the well heads for sampling. It must be noted that SCATT has been cooperative in exposing the wells for sampling, but it's an ongoing problem.

**Perceived Cause:** The wells are located in the entrance way of SCATT Industries and their trucks are continually running through that area. Over the course of time rutting of the driveway occurs and SCATT adds fill to the ruts, thus burying the wells. It is not immediately clear as to whether the property on which the wells are located is owned by SCATT or the Town (it may be part of a Town road).

**Recommendations:** Engage the services of a surveyor (an on-call contract already exists) to research the location and determine ownership of the property on which the wells are located. If owned by SCATT, determine whether proper easements have been acquired. Once this information is obtained, have the wells properly raised to grade by the responsible party and instruct SCATT as to future actions.
- Condition:** There appears to be movement of soils on the slope along the north property line in the area between the two entrances used by Atlantic Automall. Slope movement is evident by observation of local settlement and cracking of the soil at the top of slope.

**Problem:** Movement of soil, if continued, can result in a gradual or immediate slope failure. If this happens soil will collapse onto the property below.

**Perceived Cause:** Saturation of the down slope soils due to storm water from the landfill.



**Recommendations:** Engage the services of a Consulting Engineer to determine the cause, evaluate the seriousness of the situation, and recommend and design the most cost effective solution. Then engage the services of a contractor to execute the design.

3. **Condition:** Well caps on Gas Monitoring Wells GM-13 and GM-14 appear to have slid and settled.  
**Problem:** The well caps are bearing, both laterally and vertically, on the wells and may cause a break in the well casings.  
**Perceived Cause:** Settlement of the waste mass in the area of the wells. This type of settlement is typical of landfills and was expected. Similar problems were noted and corrected (by a contractor) on other wells.  
**Recommendations:** Engage the services of a contractor to reset the well caps.
  
4. **Condition:** The well head on Gas Collection Well GC-13 is set under the concrete slab of the access chamber, unlike on the other wells where it is located under the access chamber cover.  
**Problem:** If the access chamber settles it will damage the well head.  
**Perceived Cause:** Closer inspection reveals that the well was most likely installed the way it is now and that there is no immediate evidence of movement or settlement of the access chamber.  
**Recommendations:** Although there may not be settlement occurring, the access chamber on GC-13 should be monitored for settlement as a precaution.
  
5. **Condition:** The access chamber on Gas Collection Well GC-3 has settled and is collecting water (2 separate problems, which may be related). The well head was recently shortened by sawing off part of the top.  
**Problem:** Settlement of the access chamber can damage the well head. Additionally, the storm water collecting in the access chamber may be being drawn into the gas collection system (which is under vacuum) and could be a source of excess condensate.  
**Perceived Cause:** Settlement of the waste mass in the area of the wells. This type of settlement is typical of landfills and was expected  
**Recommendations:** Engage the services of a contractor to reset the access chambers.

cc: A. Sanchez  
J. Cosci  
F. Rahaman ✓  
FDR



## **GAS MIGRATION MONITORING**



Engineering and Environmental Science

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

CORPORATE HEADQUARTERS  
809 Marconi Avenue  
Ronkonkoma, NY 11779  
631/737-8200  
Fax 631/737-2410

April 22, 2008

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

Re: **Sonia Road Landfill**  
**April 2008 Landfill Gas Monitoring Results**  
**FPM File No. 631-04-06**

Dear Mr. Sanchez:

On April 16, 2008, 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 (O<sub>2</sub>) gas and methane (CH<sub>4</sub>) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH<sub>4</sub> and 15% carbon dioxide (CO<sub>2</sub>) with the balance nitrogen (N<sub>2</sub>) gas, and 4% O<sub>2</sub> with the balance N<sub>2</sub> 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 14, 2008. Thomas Dudo 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: Thomas Dudo (via fax)  
Fazil Rahman (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 <sub>4</sub> | CO <sub>2</sub> | O <sub>2</sub> | Atmospheric Pressure | Relative Pressure |
|-------------|----------------|-----------------|-----------------|-----------------|----------------|----------------------|-------------------|
| SONIBLOW    | OK             | 4/16/2008 11:32 | 3.7             | 11.0            | 8.3            | 30.2                 | 4.00              |
| GM-01       | OK             | 4/16/2008 11:35 | 0.0             | 0.5             | 18.9           | 30.2                 | 1.20              |
| GM-02       | OK             | 4/16/2008 11:44 | 0.0             | 1.8             | 16.7           | 30.2                 | -0.10             |
| GM-03       | OK             | 4/16/2008 11:49 | 0.0             | 0.1             | 19.8           | 30.2                 | 0.00              |
| GM-04       | OK             | 4/16/2008 13:15 | 0.0             | 0.1             | 19.6           | 30.2                 | 0.00              |
| GM-05       | OK             | 4/16/2008 11:56 | 0.0             | 0.3             | 19.6           | 30.2                 | -0.40             |
| GM-06       | OK             | 4/16/2008 12:01 | 0.0             | 0.2             | 19.7           | 30.2                 | -0.20             |
| GM-07       | *              | 4/16/2008 12:07 | 0.0             | 0.2             | 19.7           | 30.2                 | -0.20             |
| GM-08       | OK             | 4/16/2008 12:17 | 0.0             | 0.3             | 19.6           | 30.2                 | -0.10             |
| GM-09       | OK             | 4/16/2008 12:22 | 0.0             | 0.9             | 18.9           | 30.2                 | -0.10             |
| GM-10       | OK             | 4/16/2008 12:27 | 0.0             | 0.1             | 19.7           | 30.2                 | 0.00              |
| GM-11       | OK             | 4/16/2008 12:34 | 0.0             | 0.8             | 19.0           | 30.2                 | 0.00              |
| GM-12       | OK             | 4/16/2008 12:41 | 0.0             | 0.1             | 19.8           | 30.2                 | 0.00              |
| GM-13       | *              | 4/16/2008 12:46 | 0.0             | 0.5             | 19.3           | 30.2                 | 0.00              |
| GM-14       | *              | 4/16/2008 12:53 | 0.0             | 0.6             | 19.2           | 30.2                 | 0.00              |
| GM-15       | OK             | 4/16/2008 12:58 | 0.0             | 0.1             | 19.6           | 30.2                 | 0.50              |
| GM-16       | OK             | 4/16/2008 13:03 | 0.0             | 0.7             | 18.8           | 30.2                 | -0.10             |
| GM-17       | OK             | 4/16/2008 13:08 | 0.0             | 0.3             | 19.3           | 30.2                 | -0.10             |

**Notes:**

CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> 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, 60°F

\* Exterior casing is obstructed by well and will not close.

**FPM**

**FPM** group \_\_\_\_\_ Engineering and Environmental Science

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

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

May 27, 2008

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

Re: **Sonia Road Landfill**  
**May 2008 Landfill Gas Monitoring Results**  
**FPM File No. 631-04-06**

Dear Mr. Sanchez:

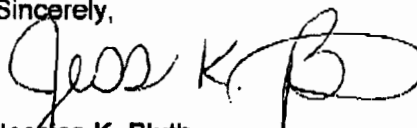
On May 21, 2008, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O<sub>2</sub>) gas and methane (CH<sub>4</sub>) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH<sub>4</sub> and 15% carbon dioxide (CO<sub>2</sub>) with the balance nitrogen (N<sub>2</sub>) gas, and 4% O<sub>2</sub> with the balance N<sub>2</sub> 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 10, 2008. Thomas Dudo 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, particularly wells GM-02, GM-03 and GM-11.**

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: **Thomas Dudo (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 <sub>4</sub> | CO <sub>2</sub> | O <sub>2</sub> | Atmospheric Pressure | Relative Pressure |
|-------------|----------------|-----------------|-----------------|-----------------|----------------|----------------------|-------------------|
| SONIBLOW    | OK             | 5/21/2008 11:51 | 3.9             | 12.2            | 8.0            | 29.4                 | 4.00              |
| GM-01       | OK             | 5/21/2008 11:55 | 0.0             | 0.5             | 19.6           | 29.4                 | 0.80              |
| GM-02       | OK             | 5/21/2008 12:03 | 0.0             | 3.4             | 13.6           | 29.4                 | 0.00              |
| GM-03       | OK             | 5/21/2008 12:13 | 0.0             | 0.1             | 20.2           | 29.4                 | 0.00              |
| GM-04       | OK             | 5/21/2008 13:39 | 0.0             | 0.2             | 20.1           | 29.4                 | 0.00              |
| GM-05       | OK             | 5/21/2008 12:22 | 0.0             | 1.1             | 19.3           | 29.4                 | -0.40             |
| GM-06       | OK             | 5/21/2008 12:28 | 0.0             | 0.3             | 19.9           | 29.4                 | -0.20             |
| GM-07       | *              | 5/21/2008 12:36 | 0.0             | 0.3             | 19.9           | 29.4                 | -0.30             |
| GM-08       | OK             | 5/21/2008 12:43 | 0.0             | 0.7             | 19.6           | 29.4                 | -0.10             |
| GM-09       | OK             | 5/21/2008 12:47 | 0.0             | 0.2             | 20.0           | 29.4                 | -0.10             |
| GM-10       | OK             | 5/21/2008 12:51 | 0.0             | 0.1             | 20.1           | 29.4                 | 0.00              |
| GM-11       | OK             | 5/21/2008 12:57 | 0.0             | 1.3             | 18.9           | 29.4                 | 0.00              |
| GM-12       | OK             | 5/21/2008 13:04 | 0.0             | 0.2             | 20.1           | 29.3                 | 0.00              |
| GM-13       | *              | 5/21/2008 13:09 | 0.0             | 1.1             | 19.4           | 29.3                 | 0.00              |
| GM-14       | *              | 5/21/2008 13:15 | 0.0             | 1.0             | 19.3           | 29.3                 | 0.00              |
| GM-15       | OK             | 5/21/2008 13:21 | 0.0             | 0.1             | 20.2           | 29.3                 | 0.00              |
| GM-16       | OK             | 5/21/2008 13:26 | 0.0             | 1.2             | 18.8           | 29.3                 | -0.10             |
| GM-17       | OK             | 5/21/2008 13:31 | 0.0             | 0.9             | 19.6           | 29.3                 | 0.00              |

**Notes:**

CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> 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 - Mostly sunny, 62°F

\* Exterior casing is obstructed by well and will not close.

**FPM**

00/20/2000 12:37 0317372410

# **FPM** group \_\_\_\_\_ 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 26, 2008

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

Re: **Sonia Road Landfill**  
**June 2008 Landfill Gas Monitoring Results**  
**FPM File No. 631-04-06**

Dear Mr. Sanchez:

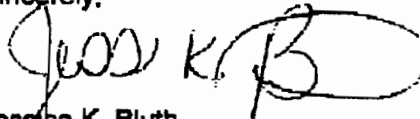
On June 6, 2008, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O<sub>2</sub>) gas and methane (CH<sub>4</sub>) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH<sub>4</sub> and 15% carbon dioxide (CO<sub>2</sub>) with the balance nitrogen (N<sub>2</sub>) gas, and 4% O<sub>2</sub> with the balance N<sub>2</sub> 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 14, 2008. Thomas Dudo 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, particularly wells GM-02, GM-03 and GM-11.**

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: Thomas Dudo (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 <sub>4</sub> | CO <sub>2</sub> | O <sub>2</sub> | Atmospheric Pressure | Relative Pressure |
|-------------|----------------|----------------|-----------------|-----------------|----------------|----------------------|-------------------|
| SONIBLOW    | OK             | 6/6/2008 11:28 | 2.1             | 7.2             | 13.0           | 30.1                 | 0.20              |
| GM-01       | OK             | 6/6/2008 11:35 | 0.0             | 0.7             | 19.2           | 30.1                 | 0.00              |
| GM-02       | OK             | 6/6/2008 11:42 | 0.0             | 4.7             | 13.2           | 30.1                 | 0.00              |
| GM-03       | OK             | 6/6/2008 11:48 | 0.0             | 0.1             | 20.1           | 30.1                 | 0.00              |
| GM-04       | OK             | 6/6/2008 13:22 | 0.0             | 0.3             | 19.7           | 30.1                 | 0.00              |
| GM-05       | OK             | 6/6/2008 11:58 | 0.0             | 0.8             | 19.4           | 30.1                 | -0.30             |
| GM-06       | OK             | 6/6/2008 12:04 | 0.0             | 0.5             | 19.7           | 30.1                 | -0.10             |
| GM-07       | *              | 6/6/2008 12:13 | 0.0             | 0.2             | 20.1           | 30.1                 | -0.20             |
| GM-08       | OK             | 6/6/2008 12:19 | 0.0             | 1.0             | 19.3           | 30.1                 | -0.10             |
| GM-09       | OK             | 6/6/2008 12:28 | 0.0             | 1.7             | 18.5           | 30.1                 | 0.00              |
| GM-10       | OK             | 6/6/2008 12:35 | 0.0             | 0.2             | 20.0           | 30.1                 | 0.00              |
| GM-11       | OK             | 6/6/2008 12:41 | 0.0             | 1.6             | 18.6           | 30.1                 | 0.00              |
| GM-12       | OK             | 6/6/2008 12:47 | 0.0             | 0.3             | 19.8           | 30.1                 | -0.10             |
| GM-13       | *              | 6/6/2008 12:53 | 0.0             | 1.2             | 18.9           | 30.1                 | 0.00              |
| GM-14       | *              | 6/6/2008 12:59 | 0.0             | 1.2             | 18.8           | 30.1                 | -0.60             |
| GM-15       | OK             | 6/6/2008 13:06 | 0.0             | 0.1             | 20.0           | 30.1                 | 0.00              |
| GM-16       | OK             | 6/6/2008 13:11 | 0.0             | 1.7             | 18.7           | 30.1                 | -0.10             |
| GM-17       | OK             | 6/6/2008 13:15 | 0.0             | 1.0             | 19.3           | 30.1                 | 0.00              |

**Notes:**

CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> 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, 62°F

\* Exterior casing is obstructed by well and will not close.

**FPM**

**GROUNDWATER WELL CONDITION**





# Memo

**To:** Alan R. Sanchez, Vice-President of Operations  
Thomas M. Dudo, Site Supervisor

**From:** Anthony J. Varrichio, P.E., Chief Engineer *AV*  
*RB*

**Date:** May 29, 2008

**Subject:** **Sonia Road Landfill - Well Condition Report - 2<sup>nd</sup> Quarter 2008**

---

Attached is a copy of the 2008 Second Quarter Groundwater Monitoring Well Condition Report for the Sonia Road Landfill prepared by H2M Group, dated May 28, 2008, for the Post-Closure Groundwater Monitoring Program.

This report is provided to assist your personnel with the repair and maintenance of these groundwater monitoring wells located at the Sonia Road Landfill Complex.

Please do not hesitate to contact me if you have any questions or comments regarding the attached.

AJV:lmb

cc: Christopher A. Andrade, President  
File

lmb\_5-29-08\_Sanchez\_Dudo\_Mem\_2nd Quarter 2008 Sonia Road Post Closure Well Condition Report.wpd





Engineers | Architects | Scientists | Planners | Surveyors

175 Pinelawn Road | Suite 308  
Melville, New York 11747  
v 631.756.8000 f 631.454.8432  
www.h2m.com

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

May 28, 2008

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

Re: Well Condition Report  
Second Quarter 2008  
Sonia Road Landfill  
H2M No. ISLP0701

Dear Mr. Varrichio:

The purpose of this letter is to provide the Second Quarter 2008 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 seven wells. The J-plug and manhole cover for monitoring well MW-01J were missing at the time of the well inspection. The J-plugs for monitoring wells MW-02I and MW-06D were cracked and the J-plugs and locks for monitoring wells MW-02D and MW-11D were missing at the time of the well inspection. The rubber gasket on the vault for monitoring well MW-06I was damaged. The manhole cover for monitoring well MW-13S was missing at the time of the well inspection. It is recommended that the damaged or missing items be repaired or replaced. In addition, although not noted in Table 1, wells MW-11S and MW-11D are often difficult to locate, due to the partial burial of the manholes for these wells, which are located at the western end of South Fourth Street.

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., CPG  
Senior Project Manager

Enclosures

X:\USLP (Town of Islip) - 10560\2008\USLP0801(Sonia Road Landfill)\01-DRAFT REPORT\Draft Report\2 Qtr 2008\2Qtr Well Condition Report.doc



CELEBRATING 75 YEARS



Table 1  
WELL INSPECTION SUMMARY – SECOND QUARTER 2008  
SONIA ROAD LANDFILL

H2M GROUP

| 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       | Missing J-plug and manhole cover | No           | Straight         | Marked       | Yes           | No              |
| MW-01D | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-02I | Intact       | J-plug cracked                   | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-02D | Intact       | Intact                           | No           | Straight         | Marked       | Yes           | Yes             |
| 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         | Marked       | Yes           | Yes             |
| MW-05D | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-06S | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-06I | Intact       | Gasket damaged                   | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-06D | Intact       | J-plug is cracked                | 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       | Intact                           | 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         | Marked       | Yes           | Yes             |
| MW-11I | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-11D | Intact       | Intact                           | Missing lock | 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         | Marked       | Yes           | Yes             |
| MW-13I | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-13D | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-14S | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-14I | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |
| MW-14D | Intact       | Intact                           | Yes          | Straight         | Marked       | Yes           | Yes             |

## **APPENDIX A**

# CAR COUNT 6/23/08

HILL

| <u>Dealership</u>   | <u>Car Count</u> |
|---------------------|------------------|
| Atlantic Nissan     | 212              |
| Atlantic Kia        | 25               |
| Atlantic Hyundai    | 213              |
| Atlantic Honda      | 326              |
| Atlantic Toyota     | 303              |
| Alantic Chevy       | 0                |
| Atlantic Caddy      | 0                |
| Atlantic Audi       | 31               |
| <br>                |                  |
| Millennium Honda    | 239              |
| Millennium Hyundai  | 11               |
| <br>                |                  |
| Advantage Toyota    | 39               |
| Advantage Nissan    | 29               |
| <br>                |                  |
| Lexus Massapequa    | 156              |
| Lexus RVC           | 158              |
| <br>                |                  |
| <b>Total Count:</b> | <b>1742</b>      |