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April 25, 2011

Ms. Jackie Drummond
Division of Waste Management/ Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

**RE: Notification of Constituent Detections
First Semiannual Sampling Event of 2011
Piedmont Landfill & Recycling Center, Permit No. 34-06
JEI Project No. 392.1101.12, Task 01**

Dear Ms. Drummond:

On behalf of Waste Management, Joyce Engineering, Inc. (JEI) is submitting this notification of constituent detections at the Piedmont Landfill and Recycling Center (Permit No. 34-06), in accordance with Title 15A, Chapter 13, Subchapter 13B, Section .1634 of the North Carolina Solid Waste Management Regulations. The first semiannual sampling event of 2011 at the Piedmont Landfill and Recycling Center was performed on March 15, 2011 by Pro-Tech. During this semiannual event, the site compliance wells and surface water monitoring points were sampled and samples were delivered under chain-of-custody control to Test America in Arvada Colorado to be analyzed for the NC Appendix I list of constituents.

Inorganic constituents with quantified detections (above the SWSL) in one or more groundwater or surface water samples included barium in MW-02 and MW-08, chromium in MW-03, and zinc in MW-09R and MW-10. Chromium was detected above the NC2L in MW-03. No detections were considered to be statistically significant increases (SSI) above background. No other Appendix I inorganic constituents were detected above the SWSL or the NC2L groundwater standards or groundwater protection standards (GWPS) in any detection monitoring well or surface water sample during the March 2011 sampling event. These results are summarized in the attached table.

An Alternate Source Demonstration (ASD) was submitted on July 26, 2010 for the exceedance of chromium detected in MW-03 during the March 2010 sampling event. As of April 21, 2011, DENR has neither approved nor disapproved the ASD.

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A complete Semiannual Groundwater Monitoring Report will be submitted in the near future. If you have any questions or need additional information, please feel free to contact me at (336) 323-0092.

Sincerely,

JOYCE ENGINEERING, INC.



Van Burbach, Ph.D., P.G.

Technical Consultant

Attachment: Table of Detected Constituents

Copy: Alexander Lacsamana, P.E., Waste Management

TABLE 1
QUANTIFIED DETECTED APPENDIX I AND APPENDIX II CONSTITUENTS

WELL ID	PARAMETER	RESULT	UNITS	SWSL	NC 2L	LIMIT	SSI
3406-MW02	Barium	130	µg/L	100	700	1,143.3	No
3406-MW03	Chromium	13	µg/L	10	10	18.2	No
3406-MW08	Barium	110	µg/L	100	700	1,126.4	No
3406-MW09R	Zinc	28	µg/L	10	1000	87.9	No
3406-MW010	Zinc	14	µg/L	10	1000	50.0	No

Notes:

1. SWSL = NC DENR Solid Waste Section Limits
2. NC2L = 15A-NCAC-2L.0202 Groundwater Standards
3. LIMIT = Background limit based on intra-well statistics.
4. SSI = Apparent statistically-significant increase above background.
5. Estimated and blank-qualified detections are excluded (except for resampling results).
6. J = Estimated concentration below the SWSL.
7. Shaded values are greater than the NC 2L Standard.
8. An Alternate Source Demonstraion for chromium in MW-3 was submitted to the DENR in July 2010.