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V. Recchia

August 18, 2006

Mr. David Ellis
Department of Environmental Protection
Southeast Regional Office
20 Riverside Drive
Lakeville, Massachusetts 02347

Subject: Summary of Landfill Gas Sampling Results
Nantucket Landfill – August 2006

Dear Mr. Ellis:

On August 15, 2006 personnel from Camp Dresser & McKee Inc. (CDM) conducted environmental monitoring at the Nantucket Landfill. The environmental monitoring included field screening for landfill gas. The environmental sampling was conducted in accordance with the approved Environmental Monitoring Plan, prepared by SECOR International Inc. in July 1999 and in conformance with the Solid Waste Management Regulations (310 CMR 19.132).

As part of the closure construction at the landfill, the environmental monitoring network was expanded by the addition of thirteen landfill gas wells (LGW-1 through LGW-13). See the site plan for locations of the landfill gas monitoring locations.

Landfill gas wells were screened in the field for the following parameters:

- Hydrogen Sulfide (H₂S);
- Methane (CH₄)
- Lower Explosive Limit (LEL);
- Carbon Dioxide (CO₂);
- Oxygen (O₂) and
- Volatile Organics (VOCs)



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Evaluation of Results

Landfill gas wells were screened for the parameters indicated previously in this report. Landfill gas wells LGW-6, LGW-8, LGW-10, and LGW-11 could not be located and were not sampled. CDM assumes these wells were destroyed during recent construction activities. CDM and the town are currently finalizing a schedule to replace damaged wells. Landfill gas well LGW-9 is currently covered and could not be accessed for sampling.

Prior to purging the wells, initial readings were taken at each location. Following recording of the initial readings, approximately 10 minutes was allowed for purging before final readings were recorded. As summarized in Table 1, there was no detection of methane, hydrogen sulfide, or VOCs at any of the monitoring locations. Carbon dioxide concentrations ranged from 0.7 to 8.9 percent. These concentrations show no indication of landfill gas migration towards the site property boundaries.

The next quarterly landfill gas screening is scheduled for October 2006.

Please do not hesitate to call me at (617) 452-6659 if you have any questions or require additional information.

Very truly yours,

A handwritten signature in black ink that reads "Vincent M. Recchia". The signature is written in a cursive, flowing style.

Vincent M. Recchia, P.E.
Camp Dresser & McKee Inc.

Attachments

cc: Jeff Willet, Nantucket (Letter only)
Tracy Sundell, Nantucket (Letter only)
Whitney Hall, Waste Options (Letter only)

TABLE 1
NANTUCKET LANDFILL
NANTUCKET, MASSACHUSETTS
LANDFILL GAS MONITORING SUMMARY - AUGUST 2006

Sample Location	Date	Methane	% LEL	CO ₂	O ₂	VOCs	H ₂ S
		(% vol.)	(% vol.)	(% vol.)	(% vol.)	(ppm)	(ppm)
LGW-1	8/15/2006	0.0	0.0	2.8	17.1	0.0	0.0
LGW-2	8/15/2006	0.0	0.0	1.8	18.9	0.0	0.0
LGW-3	8/15/2006	0.0	0.0	1.1	19.7	0.0	0.0
LGW-4	8/15/2006	0.0	0.0	0.7	20.0	0.0	0.0
LGW-5	8/15/2006	0.0	0.0	4.1	15.8	0.0	0.0
LGW-6	8/15/2006	NS	NS	NS	NS	NS	NS
LGW-7	8/15/2006	0.0	0.0	8.9	13.1	0.0	0.0
LGW-8	8/15/2006	NS	NS	NS	NS	NS	NS
LGW-9	8/15/2006	NS	NS	NS	NS	NS	NS
LGW-10	8/15/2006	NS	NS	NS	NS	NS	NS
LGW-11	8/15/2006	NS	NS	NS	NS	NS	NS
LGW-12	8/15/2006	0.0	0.0	2.3	18.6	0.0	0.0
LGW-13	8/15/2006	0.0	0.0	1.0	19.3	0.0	0.0

Notes:

1. WELLS WERE PURGED WITH LANDTEC FOR APPROXIMATELY 10 MINUTES BEFORE FINAL READINGS WERE RECORDED.
 NS NOT SAMPLED