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February 1, 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 - January 2006

Dear Mr. Ellis:

On January 25, 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)

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. These locations could not be located during previous screening rounds. It is



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assumed that these wells have been destroyed. LGW-5 and LGW-9 could not be sampled this round due to site conditions. LGW-5 was full of water and could not be sampled. The area of LGW-9 is being used for stockpile storage and the well could not be located. It is assumed that LGW-9 is beneath one of the stockpiles and could possibly be demolished.

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, methane was not detected at any of the monitoring locations. Carbon dioxide concentrations ranged from 0.3 to 5.9 percent. There were VOCs detected in LGW-7. Hydrogen sulfide was not detected in any of the monitoring locations this round. These concentrations show no indication of landfill gas migration towards the site property boundaries.

The next quarterly landfill gas screening is scheduled for April 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".

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

Attachments

c: Jeff Willet, Nantucket
Tracy Sundell, Nantucket
Whitney Hall, Waste Options

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

Sample Location	Date	Methane	% LEL	CO ₂	O ₂	OVM	H ₂ S
		(% vol.)	(% vol.)	(% vol.)	(% vol.)	(ppm)	(ppm)
LGW-1	1/25/2006	0.0	0.0	1.3	19.3	0.0	0.0
LGW-2	1/25/2006	0.0	0.0	2.3	17.7	0.0	0.0
LGW-3	1/25/2006	0.0	0.0	0.3	19.6	0.0	0.0
LGW-4	1/25/2006	0.0	0.0	0.3	19.8	0.0	0.0
LGW-5	1/25/2006	NS	NS	NS	NS	NS	NS
LGW-6	1/25/2006	NS	NS	NS	NS	NS	NS
LGW-7	1/25/2006	0.0	0.0	5.9	13.7	3.5	0.0
LGW-8	1/25/2006	NS	NS	NS	NS	NS	NS
LGW-9	1/25/2006	NS	NS	NS	NS	NS	NS
LGW-10	1/25/2006	NS	NS	NS	NS	NS	NS
LGW-11	1/25/2006	NS	NS	NS	NS	NS	NS
LGW-12	1/25/2006	0.0	0.0	1.4	19.0	0.0	0.0
LGW-13	1/25/2006	0.0	0.0	0.3	20.0	0.0	0.0

Notes:

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

