

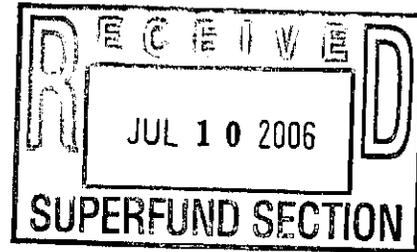
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MECKLENBURG COUNTY
Land Use and Environmental Services Agency

June 29, 2006

Mr. Matt Gamble
North Carolina Department of Environment
and Natural Resources
Division of Waste Management
Groundwater Compliance Unit
Mail Service Center 1646
Raleigh, NC 27699-1646



Subject: Holbrooks Road Landfill Permit 60-02
Semi-annual Monitoring Results

Dear Mr. Gamble:

Please find enclosed the laboratory report and spreadsheets for the closed Holbrooks Road Landfill March 2006 monitoring event. Samples were collected from eleven (11) monitoring wells (HRW-7, HRW-8, HRW-9, HRW-10, HRW-11R, HRW-13, HRW-16, HRW-18, HRW-19, HRW-20 and HRW-21) and three (3) surface-water sampling locations (HRSW-2, HRSW-3 and HRSW-4) and analyzed for metals and volatile organic compounds ("VOCs") in accordance with the approved Sampling and Analysis Plan dated March 3, 2003. Field measurements of temperature, pH, and specific conductivity were made at each sampling location using a calibrated instrument. Additionally, measurements of dissolved oxygen were made at each surface-water sampling location.

The Excel spreadsheets contained on the enclosed CD are labeled to reflect the units that are used for reporting. Detection levels and applicable standards have been included for all sampling locations. Surface water standards listed are the water quality standards established for freshwater classification for aquatic life as outlined in 15A NCAC 2B "Classification and Water Quality Standards Applicable to Surface Waters of North Carolina". Groundwater standards listed are the standards outlined in 15A NCAC 2L "Classification of Water Quality Standards applicable to the Groundwaters of North Carolina". If the sample is reported in parts per billion, then the standard is also reported in parts per billion. Results exceeding water quality standards are highlighted in yellow for ease of identification.

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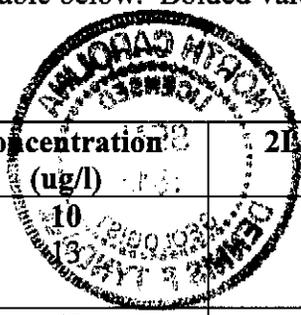
VOCs were detected in four monitoring wells; HRW-7, HRW-9, HRW-13 and HRW-18. Detection of VOCs in HRW-7 were similar the last two semi-annual sampling events. Trichloroethene exceeded the 2L standard in the sample collected from HRW-7.

The number of VOCs detected in HRW-9 declined by four compared with the September 2005 monitoring results. 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene and Vinyl Chloride were not detected in HRW-9 this sampling event. Methylene Chloride, Tetrachloroethene and Trichloroethene exceeded the 2L standard in the sample collected from HRW-9.

The number of VOC's detected in HRW-13 declined by three compared with the September 2005 monitoring results. 1,4-Dichlorobenzene, 1,2-Dichloropropane and Trichloroethylene were not detected this sampling event. 1,1-Dichloroethane, Chloroethane and cis-1,2-Dichloroethene exceeded the 2L standard in the sample collected from HRW-13.

The number of VOCs detected in HRW-18 declined by two. 1,4-Dichlorobenzene and Trichloroethylene was not detected in HRW-18 this sampling event. Benzene and Vinyl Chloride exceeded the 2L standard in the sample collected from HRW-18.

A summary of VOC's detected is provided in the table below. Bolded values indicate a result in excess of the 2L standard.



Well ID	Volatile Constituent	Concentration ² (ug/l)	2L Standard (ug/l)
HRW-7	Trichloroethylene	10	2.8
	Cis-1,2-Dichloroethene		70
HRW-9	Cis-1,2 Dichloroethene	67	70
	Methylene Chloride	20	0.7
	Tetrachloroethene	6	0.7
	Trichloroethene	13	2.8
	Trichlorofluoromethane	29	2,100
HRW-13	1,1-Dichloroethane	45	70
	Chloroethane	12	2,800
	Cis-1,2-Dichloroethene	12	70
HRW-18	1,1-Dichloroethane	61	70
	Benzene	10	1
	Cis-1,2-Dichloroethene	6	70
	Trichlorofluoromethane	43	2,100
	Vinyl Chloride	35	0.015

Measurements of pH were more acidic than the 2L standard range of 6.5 to 8.5 standard units at locations HRW-7, HRW-8, HRW-9, HRW-11R, HRW-13, HRW-16, and HRW-21. Field-measured parameters for groundwater samples are summarized in the table below. Values exceeding the 2L standard for pH are shown in bold.

Sample Location	Temp. °C	PH	Specific Conductivity ms/cm
HRW-7	17.3	6.45	0.614
HRW-8	12.5	6.61	0.093
HRW-9	14.3	6.33	0.716
HRW-10	11.35	6.58	1.002
HRW-11R	12.5	5.78	0.373
HRW-13	11.3	6.03	0.299
HRW-16	12.9	6.92	0.212
HRW-18	16.2	6.53	1.402
HRW-19	15.0	6.83	0.230
HRW-20	15.3	6.70	0.204
HRW-21	16.1	6.53	0.483

Please call me at (704) 336-5454 if you have any questions regarding this report.



Sincerely,

A handwritten signature in black ink, appearing to read "Dennis F. Tyndall", written over a horizontal line.

Dennis F. Tyndall, P.G.
Hydrogeologist
Groundwater Program

Enclosures: March 2006 Holbrooks Road Landfill Sampling Event Analytical Report
CD containing Excel Spreadsheets with sampling results

cc: Joe Hack, Q.E.P., Mecklenburg County LUESA, Solid Waste