Wake County,
North Carolina

North Wake Unlined Landfill Semi-Annual Sampling Report (November 2008 Sampling Event)

January 2009

Report

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Consultant - Camp Dresser & McKee

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Mathew F. Colone Phone: 919-787-5620

E-mail: colonemf@cdm.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wake County North Wake Closed Landfill	9004 Deponie Drive Raleigh, NC 27615	92-09	.1600	November 5-7, 10-11, and December 4, 2008

Environmental Status: (Check all that apply)

☒ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify)
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Mathew F. Colone	Consultant	(919) 787-5620
Facility Representative Name (Print)	Title	(Area Code) Telephone Number
Signature	1/7/09 Date	Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA PROFESSIONAL SEAL 1851 GEOLOGIST MATHEW F. COLONE

1/7/2009

Revised 01/2007

CDM
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January 7, 2009

Mr. Donald Herndon
Solid Waste Section
Division of Waste Management
401 Oberlin Road
Suite 150
Raleigh, North Carolina 27605-1350

Subject: November 2008 Semi-Annual Monitoring Sampling Report
North Wake Unlined Landfill
Facility Permit # - 9209

Dear Mr. Herndon:

CDM, on behalf of Wake County, is submitting one copy of the November 2008 semi-annual sampling event report. This letter report presents the results of the semi-annual sampling event that was recently completed at the North Wake Unlined Landfill and constitutes the second semi-annual sampling event for 2008.

The groundwater monitoring network consists of the following wells: MW-11 (shallow background well), MW-11d (deep background well), MW-5R, MW-6, MW-6d, MW-7, MW-8, MW-8d, MW-9, MW-10, MW-10d, MW-22, MW-23, MW-23d, MW-24, MW-28, MW-28d, MW-29d, MW-30, MW-31, MW-31d, MW-32, MW-33, MW-34, MW-34d, MW-35, MW-36, MW-36d, TB-1a, and TB-1a deep and surface water sampling locations SW-2, SW-3, SW-7, and SW-8. Monitoring wells MW-27, MW-28, MW28d, MW-33, MW-34, MW-34d, and MW-35 are only sampled during the spring event.

MW-5R was sampled in place of MW-5 and is approximately 50ft. downgradient of MW-5. MW-5R was installed in the spring of 2004 at the request of the Solid Waste Section. MW-24 was not sampled during this event as the water table was below the screen and no fresh formation water entered the well column after purging. MW-27 was abandoned while MW-36 and MW-36d were being installed on November 24 and 25, 2008. MW-36/36d are a nested pair of monitoring wells that were installed down-gradient of MW-9 and triangulated with MW-6/6d. SW-7 and SW-8 are new surface water sampling locations on Abbot's Creek along the northern edge of the landfill.

All groundwater samples were analyzed for Appendix II VOCs and metals. In addition, samples from monitoring wells MW-5R, -6, -8, -9, -10, -11, and TB-1a are analyzed for natural

attenuation parameters. Sampling results plus the statistical analysis for all wells and surface water locations are discussed below.

Field Activities

Groundwater and surface water samples from the North Wake Unlined Landfill were collected on November 5-7, November 10-11, and December 4, 2008. Groundwater samples were collected by use of disposable, laboratory decontaminated, Teflon™ bailers.

Groundwater elevations were measured at each well prior to sampling and are presented in Table 1. These groundwater elevations were used to construct potentiometric contours for this sampling event and are presented on Figure 1. The groundwater elevations and potentiometric contours were used to estimate groundwater velocities at each well. Groundwater velocity values are presented in Table 2. After depth to groundwater was determined, three well volumes of water were removed from each well prior to sampling to ensure fresh formation water within the well water column. Each well volume and surface water sample was measured in the field for pH, conductivity, temperature, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). The field parameters at the time of sampling are presented in Table 1.

Sampling Results

All groundwater and surface water samples were analyzed by SGS Environmental Inc. in Wilmington, North Carolina for the North Carolina Appendix II VOCs and metals. Select wells (MW-5R, -6, -8, -9, -10, -24, and TB-1a) were sampled for the monitored natural attenuation (MNA) parameters biochemical oxygen demand, chemical oxygen demand, alkalinity, nitrate, chloride, sulfate, sulfide, total organic carbon, carbon dioxide, methane, ethane, ethene, ferrous iron, volatile fatty acids, dissolved oxygen, and oxidation/reduction potential in addition to the Appendix II constituents. Wells MW-5R, MW-6, and MW-8 were also analyzed for dissolved hydrogen. Since MW-36 and MW-36d were new wells they were sampled for the full North Carolina Appendix II constituents (VOCs, metals, SVOCs, pesticides, herbicides, and PCBs). The results of the additional sample analysis are discussed in a later section.

According to the guidelines established by the Solid Waste Section, analytical data must be reported to the laboratory specific method detection limits and must be quantifiable at or below the Solid Waste Section Limits (SWSL). Most monitoring wells and surface water sample locations for the Wake County Unlined Landfill had detections of analytes above the method detection limit, but below the SWSL. These detections were qualified as estimated or "J" values. In several instances, analytes were also detected in batch blanks and equipment blanks as "J"

values. "B" values, which indicate that the amount detected in the method blank was greater than the method detection limit, were also reported.

The following list indicates what analytes were detected above the SWSL at each sampling location; no "J" value detections are provided. Underlined analytes exceeded the North Carolina 2L Standard (2L), Groundwater Protection Standard, or the North Carolina Surface Water Standards for Class C Waters (NC2B). A complete summary of all detected and estimated concentrations for this and previous events is presented on Table 3. Copies of the laboratory reports are provided in Appendix A.

MW-11 (Shallow Background)

Metals:	Beryllium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-11d (Deep Background)

Metals:	Beryllium, Thallium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-5R

Metals:	Barium
Volatile Organic Compounds:	p-Dichlorobenzene
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-6

Metals:	Barium, Beryllium, Cobalt, Copper, Silver, Thallium
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, Methylene Chloride, Vinyl Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-6d

Metals:	Beryllium, Chromium, Copper, Thallium, Zinc
Volatile Organic Compounds:	Trichloroethene, 1,1-Dichloroethane, Trichlorofluoromethane, Tetrachloroethene
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-7

Metals:	Beryllium
Volatile Organic Compounds:	Benzene, Vinyl Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-8

Metals:	Beryllium
Volatile Organic Compounds:	Methylene Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-8d

Metals:	Beryllium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-9

Metals:	Barium, Chromium, Lead, Silver, Thallium, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, Ethyl Benzene, Vinyl Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-10

Metals:	Barium, Beryllium, Copper, Lead, Mercury, Zinc
Volatile Organic Compounds:	Benzene, Trichloroethene, cis-1,2-Dichloroethene, 1,1-Dichloroethane, Methylene Chloride, Tetrachloroethene, Vinyl Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-10d

Metals:	Beryllium, Chromium, Copper, Lead, Nickel, Zinc
Volatile Organic Compounds:	Methylene Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-22

Metals:	Beryllium, Cadmium, Cobalt, Lead, Selenium, Silver, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-23

Metals:	Beryllium, Chromium, Copper, Lead, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-23d

Metals:	Beryllium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-24

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-28

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-28d

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-29d

Metals:	Beryllium, Copper, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-30

Metals:	Barium, Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-31

Metals:	Chromium, Copper, Lead, Vanadium, Zinc
Volatile Organic Compounds:	Chloroform
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-31d

Metals:	Beryllium, Chromium, Lead, Vanadium
Volatile Organic Compounds:	Chloroform
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-32

Metals:	Beryllium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

TB-1a

Metals:	Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Vanadium, Zinc
Volatile Organic Compounds:	Chloroform, Methylene Chloride
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

TB-1a deep

Metals:	Beryllium, Chromium
Volatile Organic Compounds:	Chloroform
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

MW-33

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-34

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-34d

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-35

Metals:	Not Sampled
Volatile Organic Compounds:	Not Sampled
Semi-Volatile Organic Compounds:	Not Sampled
Pesticides/Herbicides/PCBs:	Not Sampled

MW-36

Metals:	Barium, Chromium, Cobalt, Copper, Lead, Vanadium, Zinc
Volatile Organic Compounds:	Trichloroethene, cis-1,2-Dichloroethene, p-Dichlorobenzene, 1,1-Dichloroethane, Tetrachloroethene
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	Beta-BHC, Gamma-BHC

MW-36d

Metals:	Barium, Chromium, Copper, Thallium, Vanadium, Zinc
Volatile Organic Compounds:	Trichloroethene, 1,1-Dichloroethane, Methylene Chloride, Tetrachloroethene
Semi-Volatile Organic Compounds:	None Detected
Pesticides/Herbicides/PCBs:	None Detected

SW-2

Metals:	Beryllium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

SW-3

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

SW-7

Metals:	Chromium, Cobalt, Copper
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

SW-8

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

Equipment Blanks

Metals:	Beryllium, Thallium
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

Trip Blanks

Metals:	None Detected
Volatile Organic Compounds:	None Detected
Semi-Volatile Organic Compounds:	Not Tested
Pesticides/Herbicides/PCBs:	Not Tested

"J" values were not included in the previous list, but several sampling locations had "J" value detections that exceeded the standards. The "J" value constituents above the standards along with their location are listed below.

Copper:	SW-2, SW-7, SW-8
Silver:	SW-2, SW-3, SW-7, SW-8
Vanadium:	MW-11d, MW-6, MW-6d, MW-8d, MW-9, MW-10, MW-10d, MW-22, MW-23, MW-23d, MW-29d, MW-32, Tb-1a deep

The equipment blank also had "J" value detections of arsenic, barium, chromium, copper, silver, vanadium, and toluene. The trip blank only had a "J" value detection of methylene chloride. The duplicate sample was collected from MW-6d. A complete summary of all detected constituents, including detections above the method detection limit, is presented in Table 3. Laboratory results are provided in electronic format at the end of this report.

Statistical Analysis

Statistical analysis was performed for all detected constituents in the groundwater samples. Data from the downgradient compliance wells were compared statistically to data from the background wells using either an ANOVA comparison or the Test of Proportions. The ANOVA comparison was used for all VOC detections. The ANOVA comparison was also used for the metal's comparisons where greater than 50% of the data were above detection limits. While using the ANOVA comparison, in instances where results were below detection limits, the method detection limit (MDL) was substituted. The Test of Proportions was used only for metal's comparisons where greater than 50% of the data was non-detect.

For the November 2008 sampling event, the following constituents were found to be statistically significant: p-dichlorobenzene in MW-5R; cobalt, benzene, and methylene chloride in MW-6;

1,1-dichloroethane in MW-6d; methylene chloride in MW-8; benzene, p-dichlorobenzene, 1,1-dichloroethane, and vinyl chloride in MW-9; mercury, benzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, and trichloroethene in MW-10; cadmium and cobalt in MW-22; chromium in MW-30; chromium and chloroform in MW-31 and MW-31d; and cadmium and chloroform in TB-1a.

Table 4 presents a summary of all parameters detected during the November 2008 sampling event that exceeded the NC2L Standard, Groundwater Protection Standard, or were statistically significant.

Monitored Natural Attenuation

The Groundwater Assessment Report recommended that additional groundwater samples be collected from MW-5, -6, -8, -9, -10, -11, and TB-1a for evaluation of natural attenuation parameters. These parameters include BOD, COD, alkalinity, nitrate, chloride, sulfate, sulfide, total organic carbon, carbon dioxide, methane, ethane, ethene, ferrous iron, volatile fatty acids, dissolved hydrogen, and field measurements of pH, temperature, conductivity, redox potential, and dissolved oxygen. Results are presented in Table 5. The laboratory data for the additional parameters is included in the electronic format data.

As discussed in Section 4 of the Groundwater Assessment Report (February 2000), based on the concentrations of some of the geochemical data from the select wells, it appeared that environments were present which favored reductive dechlorination; notably, the concentrations of nitrate, ferrous iron, sulfate, and carbon dioxide. The following evidence indicates that one or more mechanisms of natural attenuation and/or reductive dechlorination may be occurring at the site:

- VOC concentrations in contaminated wells continue to decline.
- The ratio of parent / daughter compounds continues to decrease over time.
- Nitrate, ferrous iron, sulfate, and carbon dioxide continue to be detected at concentrations favoring reductive dechlorination.
- Concentrations of cis-1,2-DCE continue to be greater than other DCE isomers trans-1,2-DCE and 1,1-DCE.

In addition to favorable conditions for attenuation, the County has also installed a vacuum extraction system around the perimeter of the landfill to prevent offsite migration of landfill gas. Since previous work has indicated a relationship between the landfill gas and the

contaminated groundwater, the installation of the gas extraction system appears to further reduce groundwater contaminant concentrations. The perimeter landfill gas remediation vacuum system was initiated in January 2002.

Recommendations

Wake County will continue with the semi-annual assessment monitoring program. In addition to the Appendix I and detected Appendix II constituents, samples collected from MW-5, -6, -8, -9, -10, -11, and TB-1a will continue to be analyzed for natural attenuation parameters during the semi-annual events. It is likely that the detections of chloroform in MW's –31, 31d, TB-1a, and TB1a deep are attributed to a release from a municipal water line in the Falls River development and are not related to a release from the landfill. Groundwater samples from the annually monitored wells (MW-28, -28d, -33, -34, -34d, -35) will be collected during the next sampling event in the spring. Detected Appendix II constituents (SVOC, pesticides, herbicides) are now collected annually and will be collected during the Spring 2009 event.

The new monitoring wells MW-36/36d, in addition to two additional surface water sampling locations SW-7 and SW-8 will be added to the semi-annual monitoring list. Samples from the monitoring wells will analyzed for Appendix II VOC and metals semi-annually and Appendix II SVOC, pesticides and herbicides annually during the spring events.

Based on the sampling results from the new wells, the County will re-evaluate existing site conditions and submit a revised Assessment of Corrective Measures Report.

If you have any questions or require further explanation, do not hesitate to call me at 787-5620.

Very truly yours,

Mat Colone

Mathew F. Colone, P.G.
Camp Dresser & McKee

cc: Lee Squires , WCSWM
Bob Brossoie, CDM

Table 1
Water Quality Field Parameters - November 2008
North Wake Unlined Landfill

	Field Measurements						Groundwater Elevations		
Monitoring Well I.D.	**pH (-)**	**Conductivity (µS)**	**Temperature (deg. C)**	**Turbidity (NTU)**	**DO (mg/L)**	**ORP (-)**	**TOC Elevation (feet AMSL)**	**Depth to Groundwater (feet)**	**Groundwater Elevation (feet AMSL)**
MW-5R	6.07	499	17.1	3	0.31	113	225.28	16.46	208.82
MW-6	6.14	2,038	18.8	7	1.36	84	219.80	12.99	206.81
MW-6d	6.28	169	16.8	90	1.11	162	218.61	13.10	205.51
MW-7	5.90	451	18.6	197	2.36	76	234.15	12.06	222.09
MW-8	5.84	146	18.1	1	0.26	55	226.38	10.45	215.93
MW-8d	6.26	159	17.0	1	1.89	149	226.16	11.81	214.35
MW-9	6.18	570	17.1	657	2.45	-37	242.69	30.47	212.22
MW-10	5.50	202	15.1	481	2.76	130	274.76	44.84	229.92
MW-10d	6.24	152	17.4	76	5.03	145	274.54	47.94	226.60
MW-11	5.74	79	16.4	370	6.71	167	343.63	44.52	299.11
MW-11d	6.04	94	16.6	54	7.71	116	343.27	44.69	298.58
MW-22	6.29	174	15.9	334	3.31	148	254.62	35.21	219.41
MW-23	5.87	101	16.3	1151	4.46	190	274.83	45.84	228.99
MW-23d	6.02	145	16.9	16	4.34	162	274.89	46.01	228.88
MW-24	6.17	88	17.3	102	5.32	157	266.64	45.24	221.40
MW-27	NS	NS	NS	NS	NS	NS	215.54	NS	NS
MW-28	NS	NS	NS	NS	NS	NS	237.89	NS	NS
MW-28d	NS	NS	NS	NS	NS	NS	238.44	NS	NS
MW-29d	6.08	127	15.6	31	5.54	129	275.06	42.52	232.54
MW-30	6.34	115	15.5	2216	6.62	109	282.32	51.55	230.77
MW-31	5.97	160	17.6	2248	5.52	158	261.67	32.96	228.71
MW-31d	6.18	159	17.7	62	2.75	137	260.92	32.39	228.53
MW-32	5.54	77	16.9	566	2.68	165	242.99	16.81	226.18
TB-1a	6.11	174	16.2	627	4.08	65	255.05	28.31	226.74
TB-1a deep	6.15	168	16.5	33	1.07	136	256.01	30.47	225.54
MW-33	NS	NS	NS	NS	NS	NS	222.01	NS	NS
MW-34	NS	NS	NS	NS	NS	NS	221.96	NS	NS
MW-34d	NS	NS	NS	NS	NS	NS	222.16	NS	NS
MW-35	NS	NS	NS	NS	NS	NS	223.48	NS	NS
MW-36	5.77	257	15.7	644	2.39	-102	NA	26.93	NA
MW-36d	6.27	358	15.5	156	4.23	85	NA	27.18	NA

NOTES:
(1) AMSL - Above Mean Sea Level
(2) TOC - Top of Casing
(3) NS - Well not sampled
(4) NA - Information not available

Table 2
Summary of Calculated Groundwater Flow Velocities
North Wake Unlined Landfill

	Sampling Date:		11/11/2005		4/13/2006		11/9/2006		4/17/2007		11/9/2007	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)
MW-5R	0.33 1.16E-04	0.18	0.0179	3.28E-02	0.0417	7.65E-02	0.0399	7.32E-02	0.0125	2.29E-02	0.0119	2.18E-02
MW-6	10.58 3.73E-03	0.13	0.0172	1.40E+00	0.0172	1.40E+00	0.0172	1.40E+00	0.0132	1.07E+00	0.0125	1.02E+00
MW-7	1.15 4.06E-04	0.18	0.0172	1.10E-01	0.0172	1.10E-01	0.0172	1.10E-01	0.0208	1.33E-01	0.0278	1.78E-01
MW-8	3.61 1.27E-03	0.18	0.0217	4.35E-01	0.0313	6.28E-01	0.0313	6.28E-01	0.0135	2.71E-01	0.0125	2.51E-01
MW-9	1.22 4.30E-04	0.30	0.0152	6.18E-02	0.0152	6.18E-02	0.0152	6.18E-02	0.0200	8.13E-02	0.0172	6.99E-02
MW-10	0.509 1.80E-04	0.05	0.0250	2.55E-01	0.0250	2.55E-01	0.0250	2.55E-01	0.0417	4.25E-01	0.0556	5.66E-01
MW-11	5.66 2.00E-03	0.13	0.0200	8.71E-01	0.0204	8.88E-01	0.0204	8.88E-01	0.0213	9.27E-01	0.0213	9.27E-01
MW-22	0.07 2.47E-05	0.18	0.0278	1.08E-02	0.0385	1.50E-02	0.0385	1.50E-02	0.0400	1.56E-02	0.0278	1.08E-02
MW-23	3.59 1.27E-03	0.30	0.0208	2.49E-01	0.0227	2.72E-01	0.0227	2.72E-01	0.0208	2.49E-01	0.0196	2.35E-01
MW-24	0.34 1.20E-04	0.30	0.0161	1.82E-02	0.0156	1.77E-02	0.0156	1.77E-02	0.0313	3.55E-02	0.0417	4.73E-02

NS - Not Sampled
NC - Not Constructed

Table 2
Summary of Calculated Groundwater Flow Velocities
North Wake Unlined Landfill

	Sampling Date:		5/15-21/2008		11/5-08/2008	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity (ft/day)	Gradient	Average Linear Velocity (ft/day)
MW-5R	0.33 1.16E-04	0.18	0.0230	4.21E-02	0.0232	4.26E-02
MW-6	10.58 3.73E-03	0.13	0.0202	1.65E+00	0.0203	1.65E+00
MW-7	1.15 4.06E-04	0.18	0.0250	1.60E-01	0.0251	1.61E-01
MW-8	3.61 1.27E-03	0.18	0.0243	4.87E-01	0.0242	4.85E-01
MW-9	1.22 4.30E-04	0.30	0.0197	8.00E-02	0.0198	8.05E-02
MW-10	0.509 1.80E-04	0.05	0.0168	1.71E-01	0.0171	1.74E-01
MW-11	5.66 2.00E-03	0.13	0.0212	9.23E-01	0.0213	9.29E-01
MW-22	0.07 2.47E-05	0.18	0.0181	7.03E-03	0.0181	7.04E-03
MW-23	3.59 1.27E-03	0.30	0.0194	2.33E-01	0.0196	2.34E-01
MW-24	0.34 1.20E-04	0.30	0.0244	2.76E-02	0.0246	2.78E-02

NS - Not Sampled
NC - Not Constructed

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-11	15-Apr-94		221				23	54	14							**50**	88
MW-11	11-May-94		146				19	55	14							**50**	83
MW-11	10-Jun-94		191				27	111	7.6		20					**90**	114
MW-11	3-Oct-94		143			16	26	74	8							**60**	85
MW-11	13-Jun-95																
MW-11	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	31-Oct-95	11	842	**8**		24	**71**	331	**26**		87					**117**	314
MW-11	22-Mar-96						15			**1.8**						**51**	70
MW-11	29-Nov-96	35															
MW-11	22-Apr-97																130
MW-11	31-Oct-97																66
MW-11	11-May-98																
MW-11	8-Dec-98				**2.1**												
MW-11	14-Apr-99																
MW-11	30-Nov-99																
MW-11	5-Apr-00				1.2												
MW-11	18-Dec-00																
MW-11	18-Apr-01																
MW-11	27-Nov-01		311					16.5									29.7
MW-11	5-Apr-02																
MW-11	5-Nov-02																
MW-11	15-Apr-03																
MW-11	29-Oct-03																
MW-11	18-Nov-04																
MW-11	21-Apr-05																
MW-11	11-Nov-05																83
MW-11	14-Apr-06																
MW-11	10-Nov-06																82
MW-11	20-Apr-07																21
MW-11	8-Nov-07		332	2.1				39	12							**58**	113
MW-11	15-May-08		77.8J			5.4J		10.5	3.92J				4.48J		**5.63**	2.9J	16.1
MW-11	10-Nov-08		53.1J	3.03	0.35JB	2.73JB		5.94JB	9.78JB				4.02JB			1.14J	8.18J
MW-11d	31-Oct-95				**2**												
MW-11d	22-Mar-96				1												
MW-11d	29-Nov-96		26														
MW-11d	22-Apr-97																54
MW-11d	31-Oct-97																26
MW-11d	11-May-98																69
MW-11d	8-Dec-98				**1.9**												
MW-11d	14-Apr-99																
MW-11d	30-Nov-99																
MW-11d	5-Apr-00																
MW-11d	18-Dec-00																
MW-11d	18-Apr-01																
MW-11d	27-Nov-01																
MW-11d	5-Apr-02									0.3							
MW-11d	5-Nov-02																
MW-11d	15-Apr-03																
MW-11d	29-Oct-03																
MW-11d	18-Nov-04																
MW-11d	21-Apr-05																
MW-11d	11-Nov-05																
MW-11d	14-Apr-06																
MW-11d	10-Nov-06																
MW-11d	20-Apr-07																
MW-11d	8-Nov-07																16
MW-11d	15-May-08		59.7J	3.07		6.41J		8.21J	4.59J				3.98J		**6.91**	0.97J	9.82J
MW-11d	10-Nov-08		37.6J		0.36JB	1.94JB		5.8JB	8.5JB				4.37JB			4.09J	4.14J

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-5	6-Mar-94		76														110
MW-5	15-Apr-94		60		0.9								**62**				47
MW-5	11-May-94		58		0.5			11									28
MW-5	31-May-94		66				11				17						63
MW-5	10-Jun-94		54						2.5								20
MW-5	30-Sep-94		48										7.3				10
MW-5	13-Jun-95																
MW-5	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	31-Oct-95				1												
MW-5 (dup)	31-Oct-95				1												
MW-5	30-Jan-96																237
MW-5	29-Nov-96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	22-Apr-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	6-May-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	6-Aug-98			2.2	**4.9**	32	24									68	190
MW-5	8-Dec-98				1.5												
MW-5	16-Apr-99				1.5		28.3										
MW-5	2-Dec-99				1		49.8										
MW-5	11-Apr-00						34.8										
MW-5	20-Dec-00						26.9										
MW-5	16-Apr-01						32.1										
MW-5	3-Dec-01						19.3										
MW-5	12-Apr-02						34.9										70.5
MW-5	5-Nov-02						37.7										
MW-5	17-Apr-03						55.1										
MW-5	4-Nov-03		533		**3.06**		**113**										
MW-5 (dup)	4-Nov-03		590		**3.48**		**123**										
MW-5	14-Apr-04				1.52		55.3										
MW-5	18-Nov-04						**166**										57
MW-5	21-Apr-05						18										
MW-5	11-Nov-05						**139**										57
MW-5	14-Apr-06						**90**										
MW-5	9-Nov-06						23										
MW-5	19-Apr-07		125				16										
MW-5	9-Nov-07		164														
MW-5R	21-Apr-04	12.4															
MW-5R	21-May-08		94J	1.42J		2.36J		4.54J									44.1
MW-5R	10-Nov-08		106		0.53JB	2.74JB	5.65J	4.61JB	6.76JB		9.87J		4.41JB			2.76J	8.23J

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-6	6-Mar-94		190			32	10	33	**18**		33					**63**	51
MW-6	15-Apr-94		144			20	12	20	11				7.3			**50**	27
MW-6	11-May-94		175			30	13	33	9.3				7.3			**70**	35
MW-6	1-Jun-94		260	**5.4**		49	16	28	14		13					**100**	72
MW-6	25-Aug-94		68										7.3				
MW-6	29-Sep-94		110			19		19	6.9				7.3			**40**	16
MW-6	13-Jun-95			2		22				**2.6**						**41**	
MW-6	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	0.5	NS	NS	NS			NS	NS
MW-6	31-Oct-95									**2.5**							
MW-6	30-Jan-96			**7**		44	12		13	**1.8**						**65**	61
MW-6	29-Nov-96		150	2		20	6	21	6	0.83						**52**	40
MW-6	22-Apr-97					12				**1.1**							67
MW-6	2-Nov-98					14				0.54							28
MW-6	6-May-98									0.65							
MW-6 (dup)	6-May-98																
MW-6	8-Dec-98				1.4					0.81							
MW-6	16-Apr-99									0.7							
MW-6	2-Dec-99									0.9							
MW-6	11-Apr-00									**1.1**							
MW-6	19-Dec-00									**1.8**							
MW-6	16-Apr-01									**1.9**							
MW-6	3-Dec-01									0.6							
MW-6	12-Apr-02																
MW-6	5-Nov-02									0.9							
MW-6	17-Apr-03						14.4			0.7							
MW-6	4-Nov-03						30.1			0.464							
MW-6	14-Apr-04	20.6					48.1			0.283							
MW-6	18-Nov-04				2	47	**88**			0.53						**41**	
MW-6	21-Apr-05						33										
MW-6	11-Nov-05				1	19	50										
MW-6	14-Apr-06				2	10	69										
MW-6	9-Nov-06					10	65										
MW-6	19-Apr-07		461				**89**										13
MW-6	9-Nov-07		701				61										
MW-6	20-May-08		547	3.34	0.57J	4.84J	**92.3**	14.5	5.31J	0.167J	16.3J		1.6J		**14.8**		32.9
MW-6	11-Nov-08		759B	3.61B	0.25J	7.98JB	**74.4**	20.2B	5.74J		19.1J		10.0B		**15.0**	7.56JB	6.90JB
MW-6d	8-Jun-01																
MW-6d	4-Dec-01																
MW-6d	9-Apr-02																
MW-6d	7-Nov-02																
MW-6d	16-Apr-03																
MW-6d	5-Nov-03																
MW-6d	21-Apr-04					17.3											
MW-6d	18-Nov-04				1												
MW-6d	21-Apr-05				1												
MW-6d	11-Nov-05				1												
MW-6d	11-Apr-06				1												
MW-6d	9-Nov-06																
MW-6d	20-Apr-07																11
MW-6d	8-Nov-07																
MW-6d	20-May-08		34.2J	0.98J		5.56J		6.79J								0.61J	
MW-6d	6-Nov-08		80.3JB	1.96B		16.3B	4.52J	15.9B	9.04JB		6.77J		8.74JB		**6.3**	17.8JB	13.2
MW-6d (dup)	6-Nov-08	2.57J	77.0JB	**11.6B**		13.5B	4.63J	14.0B	9.24JB		5.22J		8.35JB			17.9JB	12

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-7	6-Mar-94		190			48	17	110	**22**		21					**67**	82
MW-7	15-Apr-94		136			30	11	53	**25**		20					**40**	56
MW-7	11-May-94		51			30	11	24	6.8							**40**	29
MW-7	31-May-94		350	**5.4**		**89**	30	180	**34**		40					**140**	150
MW-7	25-Aug-94		44					25	2.7								19
MW-7	29-Sep-94		49			15		26	4.7							**20**	20
MW-7	13-Jun-95																
MW-7	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS			NS	NS
MW-7	31-Oct-95																
MW-7	30-Jan-96			2		35			10								
MW-7	29-Nov-96		17														
MW-7	21-Apr-97									0.38							
MW-7 (dup)	21-Apr-97									0.22							
MW-7	1-Nov-97									0.58							48
MW-7	6-May-98									0.24							
MW-7	8-Dec-98				**2.6**	15				0.25							
MW-7	16-Apr-99																
MW-7	2-Dec-99									0.2							
MW-7	11-Apr-00									0.2							
MW-7 (dup)	11-Apr-00									0.2							
MW-7	19-Dec-00									0.3							
MW-7 (dup)	19-Dec-00									0.3							
MW-7	16-Apr-01																
MW-7	4-Dec-01																
MW-7	9-Apr-02						10.1										
MW-7	6-Nov-02																
MW-7	16-Apr-03						20.3										
MW-7	5-Nov-03						19.2										
MW-7	21-Apr-04						29.5										
MW-7 (dup)	21-Apr-04	12.1					24										
MW-7	18-Nov-04						44										
MW-7	21-Apr-05						44										
MW-7	11-Nov-05						15										
MW-7	11-Apr-06						26										
MW-7	9-Nov-06				**2**	36	29			0.63							56
MW-7	20-Apr-07						16										18
MW-7	8-Nov-07				1	11	14	13									20
MW-7	15-May-08	2.16J	43.4J			10.8	19.3	12.6	4.28J		9.94J	10.4	5.99J		**21.1**		9.72J
MW-7	5-Nov-08	2.68J	38.3JB	**6.84B**		3.42JB		6.81JB	9.68JB				8.61JB	38JB		3.03JB	6.38J

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-8	6-Mar-94		120			17		26			13					**35**	49
MW-8	15-Apr-94		97					22	4.2		20					**30**	35
MW-8	11-May-94		89					20	4.3							**20**	26
MW-8	31-May-94		330	**5.4**		**81**	34	90	**16**		39					**150**	150
MW-8	25-Aug-94		76					13	2.7								21
MW-8	30-Sep-94		82			20		14	5.4							**20**	19
MW-8	13-Jun-95					38	11									**87**	
MW-8	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS
MW-8	31-Oct-95																
MW-8	30-Jan-96			3		35	12									**64**	63
MW-8 (dup)	30-Jan-96			3		36	12									**63**	76
MW-8	29-Nov-96		120			14	5	21								**31**	54
MW-8 (dup)	29-Nov-96		82														19
MW-8	21-Apr-97					19											
MW-8	2-Nov-97																
MW-8	6-May-98																
MW-8	8-Dec-98				1.2												
MW-8	16-Apr-99																
MW-8 (dup)	16-Apr-99																
MW-8	2-Dec-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS
MW-8	11-Apr-00				**2.1**												
MW-8	20-Dec-00				1.5		17.1										
MW-8	16-Apr-01																
MW-8	3-Dec-01																
MW-8	12-Apr-02																
MW-8	5-Nov-02				1.2	15.3											
MW-8	17-Apr-03																
MW-8	4-Nov-03																
MW-8	14-Apr-04					19.8											
MW-8	18-Nov-04					**198**	**72**		13		**114**					**281**	161
MW-8	21-Apr-05																
MW-8	11-Nov-05			3		31			14								116
MW-8	14-Apr-06			3	**2**	30			14							**50**	111
MW-8	9-Nov-06			2		34			11								99
MW-8	20-Apr-07																
MW-8	9-Nov-07																15
MW-8	20-May-08		26.4J			4.72J		3.99J		0.091J							6.16J
MW-8	10-Nov-08		25.6J	2.49	0.33JB	3.27JB		4.37JB	9.17JB				4.03JB				
MW-8d	8-Jun-01											12.7					
MW-8d	4-Dec-01																
MW-8d	9-Apr-02																
MW-8d (dup)	9-Apr-02																
MW-8d	7-Nov-02																
MW-8d	16-Apr-03																
MW-8d	4-Nov-03																
MW-8d	21-Apr-04																
MW-8d	18-Nov-04																
MW-8d	21-Apr-05																
MW-8d	11-Nov-05																
MW-8d	14-Apr-06																
MW-8d	10-Nov-06																
MW-8d	20-Apr-07																
MW-8d	8-Nov-07																11
MW-8d	15-May-08		19.1J			6.86J		3.98J	4.10J				4.16J		**8.59**		4.53J
MW-8d	6-Nov-08	2.49J	25.2JB	3.61B		7.57JB		6.96JB	5.20JB				8.71JB			6.56JB	4.8J

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-9	6-Mar-94		210														
MW-9	15-Apr-94		199				11										
MW-9	11-May-94		193				10		2.7								14
MW-9	31-May-94		270			24	14	25	21							**23**	120
MW-9	25-Aug-94		135														14
MW-9	29-Sep-94		123						4.2								12
MW-9	13-Jun-95						14										
MW-9	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	31-Oct-95																
MW-9	30-Jan-96			**4**	1	20	16		**17**								65
MW-9	29-Nov-96		140														21
MW-9	22-Apr-97																
MW-9	2-Nov-97						11										37
MW-9	6-May-98																
MW-9	8-Dec-98				1.5												
MW-9	16-Apr-99																
MW-9	2-Dec-99																
MW-9	11-Apr-00																
MW-9	20-Dec-00																
MW-9	16-Apr-01																
MW-9	3-Dec-01	11	166														
MW-9 (dup)	3-Dec-01	12.2	160														
MW-9	12-Apr-02														**10.8**		
MW-9	5-Nov-02						10.1										
MW-9	17-Apr-03						10.6										
MW-9	4-Nov-03						11.3										
MW-9	14-Apr-04	20.6					11.8										
MW-9	18-Nov-04				**7**		10										
MW-9	21-Apr-05																
MW-9	11-Nov-05																
MW-9	14-Apr-06				**3**												
MW-9	9-Nov-06																
MW-9	19-Apr-07		289	2	1	17		12	**21**								122
MW-9	9-Nov-07		186														16
MW-9	20-May-08		190	2.9		27		5.8J	10.6		11.3J	8.29J	2.84J		**10.4**		5.58J
MW-9 (dup)	20-May-08		190			22.7	5.15J	5.87J	8.38J				3.16J		**11.1**		6.10J
MW-9	11-Nov-08		218B	0.3JB		12.4B	6.99J	9.59JB	13.5			8.93J	11.1B		**16.9**	8.49JB	14.4B

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-10	31-Oct-95																
MW-10	30-Jan-96																
MW-10	28-Nov-96		71				14										
MW-10	22-Apr-97					31	23									**43**	98
MW-10	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	5-May-98				1.3				13	0.34							720
MW-10	18-Aug-98				**4.9**												150
MW-10	10-Sep-98																
MW-10	6-Oct-98				1.2												
MW-10	8-Dec-98				2												
MW-10	11-Jan-99																
MW-10	8-Feb-99																
MW-10 (dup)	8-Feb-99																
MW-10	16-Apr-99																
MW-10	2-Dec-99									0.3							
MW-10	12-Apr-00																
MW-10	20-Dec-00																
MW-10	17-Apr-01																
MW-10	3-Dec-01																
MW-10	12-Apr-02																
MW-10	5-Nov-02									0.5							
MW-10 (dup)	5-Nov-02									0.4							
MW-10	17-Apr-03									0.4							
MW-10	4-Nov-03																
MW-10	14-Apr-04																
MW-10	18-Nov-04				**2**												
MW-10	21-Apr-05																
MW-10	11-Nov-05									**1.1**							
MW-10	14-Apr-06																
MW-10	9-Nov-06																
MW-10	19-Apr-07									0.38							
MW-10	9-Nov-07		399														
MW-10	20-May-08		24.1J		0.21J	2.08J		6.28J		0.374					**6.74**		8.03J
MW-10	11-Nov-08	5.71JB	174B	**12.2B**	0.84J	9.86JB	4.73J	32.9B	**25.2**	**7.53**	8.21J		9.75JB			24.9JB	59.3B
MW-10d	8-Jun-01							30		0.3							
MW-10d	4-Dec-01																
MW-10d	9-Apr-02																
MW-10d	5-Nov-02																
MW-10d	17-Apr-03	10.9			1.1	10.1											
MW-10d	4-Nov-03																
MW-10d	26-Apr-04																
MW-10d	18-Nov-04																
MW-10d	21-Apr-05				**5**												
MW-10d	11-Nov-05				**5**												
MW-10d	14-Apr-06				**4**												
MW-10d	10-Nov-06																
MW-10d	20-Apr-07																
MW-10d	8-Nov-07				1												
MW-10d	20-May-08	9.06J	57.9J	0.5J		33		31.8	21.9	0.123J	18.7J		3.92J		**5.93**	18.9J	28.6
MW-10d	6-Nov-08	5.94J	40.7JB	**5.27B**		**149B**	5.12J	22.9B	**15.1B**		80.3		8.15JB			16.7JB	22

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-22	9-Jun-97				**2.9**		**130**				66						
MW-22	18-Aug-97	11.9			**4.4**		**229**		14.3		**164**						68.6
MW-22	2-Nov-97				1.5		**210**		12		**130**						230
MW-22	6-May-98						**110**				51						80
MW-22	18-Aug-98				**9.6**		**110**										210
MW-22	10-Sep-98						**100**										
MW-22	6-Oct-98						**99**										
MW-22	8-Dec-98				**1.9**		**130**										
MW-22	11-Jan-99				1.5		**202**				55						
MW-22	8-Feb-99				**2**		**168**										
MW-22	16-Apr-99				**4.1**	10.1	**261**		**21**		70.9						
MW-22	2-Dec-99				**7.4**		**160**										
MW-22	12-Apr-00				**6.1**		**98.1**										
MW-22	20-Dec-00				**2.4**		60.7										
MW-22	17-Apr-01				1.2		31.4										
MW-22	5-Dec-01						26.9										
MW-22	9-Apr-02				**2.1**		63.5										
MW-22	6-Nov-02				1.2		26.5										
MW-22	17-Apr-03																
MW-22	5-Nov-03				1.19	11.1	30.1		12.9								
MW-22	26-Apr-04																
MW-22	18-Nov-04				**3**		15										
MW-22	22-Apr-05			3	**3**	17	48		**62**								196
MW-22	11-Nov-05				**2**		13										
MW-22	14-Apr-06				**2**		12										
MW-22	10-Nov-06				**2**		15										
MW-22	20-Apr-07				**2**												20
MW-22	8-Nov-07				**2.8**		24		13								32
MW-22	15-May-08		45J		**4.66**	8.9J	25.1	7.09J	10.3		16.2J	7.95J	5.69J		**7.37**	1.3J	16.3
MW-22	6-Nov-08	4.58J	75.5JB	2.45B	**6.68**	9.28JB	44.9	9.38JB	**15.4B**		27.5J	10.5	10.6B			20.7JB	32.6
MW-23	9-Jun-97																
MW-23	18-Aug-97	10.3			**2.3**		14.2		**18.8**		59.1						
MW-23	2-Nov-97		600	**4.7**	**2.6**	**54**	35		**56**		**110**					**170**	260
MW-23	5-May-98																
MW-23	18-Aug-98				**5.4**	24	10		**17**							**50**	150
MW-23	10-Sep-98																
MW-23	6-Oct-98				1.6					0.26							
MW-23	8-Dec-98				1.7												
MW-23 (dup)	8-Dec-98				**2.3**												
MW-23	11-Jan-99									0.20							
MW-23	8-Feb-99									0.20							
MW-23	16-Apr-99					11.2			**23.8**	0.7							
MW-23	2-Dec-99									0.2							
MW-23 (dup)	2-Dec-99																
MW-23	12-Apr-00									**1.1**							
MW-23	20-Dec-00																
MW-23	17-Apr-01																
MW-23	4-Dec-01																
MW-23	11-Apr-02																
MW-23	6-Nov-02																
MW-23	17-Apr-03																
MW-23 (dup)	17-Apr-03																
MW-23	5-Nov-03																
MW-23	26-Apr-04																
MW-23	18-Nov-04																
MW-23	21-Apr-05																
MW-23	11-Nov-05																
MW-23	14-Apr-06																
MW-23	9-Nov-06					13		39									133
MW-23	20-Apr-07		133	2		10	23	29								**28**	102
MW-23	8-Nov-07		123	1			21	21								**27**	92
MW-23	15-May-08	3.35J	90.7J	6.57		18.8	4.50J	32.7	11.7		10.3J		4.56J			**30**	49.2
MW-23	6-Nov-08	4.07J	65.4JB	1.96B		10.6B		18.3B	13.2B		8.28J		8.41JB			17.5JB	15.9

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-23d	5-May-98																80
MW-23d	18-Aug-98				4												63
MW-23d	10-Sep-98				1.6				11								
MW-23d	6-Oct-98				**2.0**					0.22							60
MW-23d	8-Dec-98				**1.8**												83
MW-23d	11-Jan-99																
MW-23d	8-Feb-99																
MW-23d	16-Apr-99																
MW-23d	2-Dec-99																
MW-23d	12-Apr-00																
MW-23d	20-Dec-00									0.8							
MW-23d	17-Apr-01																
MW-23d	4-Dec-01																
MW-23d	11-Apr-02																
MW-23d	6-Nov-02																
MW-23d	17-Apr-03																
MW-23d	5-Nov-03																
MW-23d	26-Apr-04																
MW-23d	18-Nov-04																
MW-23d	21-Apr-05				**2**				12								55
MW-23d	11-Nov-05				1												
MW-23d	14-Apr-06																
MW-23d	9-Nov-06																
MW-23d	20-Apr-07																
MW-23d	8-Nov-07																10
MW-23d	15-May-08		36.5J			5.10J		3.39J					3.39J				
MW-23d	6-Nov-08		48.8JB	**7.34B**		6.57JB		5.63JB	6.76JB				8.81JB			8.38JB	4.77J
MW-24	9-Jun-97																
MW-24	18-Aug-97				1.7		11.2										52.8
MW-24	1-Nov-97																66
MW-24 (dup)	1-Nov-97								12	0.25							91
MW-24	5-May-98																
MW-24	18-Aug-98				**4.7**				**16**								180
MW-24 (dup)	18-Aug-98	11		2.1	**8.9**	12	11		**22**								290
MW-24	10-Sep-98									0.44							
MW-24	6-Oct-98									0.98							
MW-24	8-Dec-98									0.62							
MW-24	8-Dec-98									0.62							
MW-24	11-Jan-99									0.50							
MW-24	16-Apr-99								13.7	0.4							53.1
MW-24	2-Dec-99																
MW-24	12-Apr-00									0.3							
MW-24	20-Dec-00																
MW-24	16-Apr-01									0.3							
MW-24 (dup)	16-Apr-01																
MW-24	3-Dec-01																
MW-24	12-Apr-02																
MW-24	5-Nov-02																
MW-24	17-Apr-03									0.4							
MW-24	4-Nov-03																
MW-24	14-Apr-04																
MW-24	18-Nov-04									**1.2**							68
MW-24	21-Apr-05									0.65							
MW-24	11-Nov-05			**5**		11			**52**	2							539
MW-24	14-Apr-06			3	**2**				**41**	**1.2**							492
MW-24	9-Nov-06			**4**		10			**48**	**1.7**							464
MW-24	19-Apr-07			1					14	0.68							112
MW-24	9-Nov-07			3.3		10		15	**31**	0.98							305
MW-24	20-May-08		42.4J	3.85		3.47J		7.58J	7.16J	0.046J						4.83J	27.4
MW-24	11-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-27	4-May-98																
MW-27	7-Dec-98				1	21											
MW-27	29-Apr-99				**2.3**		19										
MW-27	3-Dec-99						13.2										
MW-27	12-Apr-00				1.7		14.5			0.5							75.6
MW-27	18-Apr-01																
MW-27	12-Apr-02				1.7		10.5										51.8
MW-27	17-Apr-03																
MW-27	26-Apr-04																
MW-27	22-Apr-05			3	1	11										**57**	216
MW-27	11-Nov-05																
MW-27	14-Apr-06																
MW-28	1-May-98																
MW-28	17-Aug-98				**5.6**												
MW-28	9-Sep-98																
MW-28	7-Oct-98				**8.8**	43	24									**80**	150
MW-28	9-Dec-98				**8.9**	39	19									**68**	140
MW-28	12-Jan-99																
MW-28	9-Feb-99																
MW-28	19-Apr-99																
MW-28	3-Dec-99																
MW-28	12-Apr-00																
MW-28	18-Apr-01																
MW-28	12-Apr-02																
MW-28	17-Apr-03																
MW-28	26-Apr-04																
MW-28	22-Apr-05			2		33	13		**17**							**67**	331
MW-28	13-Apr-06					12											66
MW-28	20-Apr-07					11											88
MW-28	19-May-08		75.8J	**4.29**		16.9	3.18J	6.12J	4.16J							**25.1**	39.9
MW-28d	1-May-98																
MW-28d	17-Aug-98				1.3												
MW-28d	9-Sep-98																
MW-28d	7-Oct-98																
MW-28d	9-Dec-98									0.25							
MW-28d	12-Jan-99																
MW-28d (dup)	12-Jan-99																
MW-28d	9-Feb-99																
MW-28d	19-Apr-99																
MW-28d	3-Dec-99																
MW-28d	12-Apr-00																
MW-28d	18-Apr-01																
MW-28d	12-Apr-02																
MW-28d	17-Apr-03																
MW-28d	26-Apr-04																
MW-28d	22-Apr-05																
MW-28d	13-Apr-06																
MW-28d	20-Apr-07																35
MW-28d	19-May-08			**7.76**		1.53J		5J	3.8J							1.52J	

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-29d	4-May-98					13											
MW-29d	17-Aug-98																
MW-29d	9-Sep-98				1	17											
MW-29d (dup)	9-Sep-98					11											
MW-29d	7-Oct-98				**2.7**	18											53
MW-29d	9-Dec-98									0.24							
MW-29d	12-Jan-99																
MW-29d	9-Feb-99																
MW-29d	19-Apr-99																
MW-29d	3-Dec-99																
MW-29d	12-Apr-00																
MW-29d	19-Dec-00																
MW-29d	18-Apr-01																
MW-29d	4-Dec-01																
MW-29d	11-Apr-02																
MW-29d	6-Nov-02																
MW-29d	18-Apr-03																
MW-29d	5-Nov-03																
MW-29d	26-Apr-04																
MW-29d	18-Nov-04				**2**												
MW-29d	22-Apr-05																
MW-29d	11-Nov-05																
MW-29d	14-Apr-06																
MW-29d	10-Nov-06																
MW-29d	20-Apr-07							16									56
MW-29d	9-Nov-07																24
MW-29d	19-May-08		33.8J	**6.72**		4.31J		5.61J									4.02J
MW-29d	7-Nov-08		49.8JB	**10.7B**		8.58JB	3.47J	12.1B	5.59JB				8.05JB			12.1JB	10.5
MW-30	4-May-98					**60**	19									**56**	60
MW-30	17-Aug-98				**34**	**50**	19				50					**50**	190
MW-30	9-Sep-98					16					50						140
MW-30	7-Oct-98				1.1												
MW-30	7-Dec-98				**2.6**	20											
MW-30	12-Jan-99					20											
MW-30	9-Feb-99					20											
MW-30	19-Apr-99																
MW-30	3-Dec-99																
MW-30	12-Apr-00																
MW-30	19-Dec-00																
MW-30	18-Apr-01																
MW-30	4-Dec-01																
MW-30	11-Apr-02																
MW-30	6-Nov-02																
MW-30	17-Apr-03																
MW-30	5-Nov-03																
MW-30	28-Apr-04																
MW-30	18-Nov-04					**108**	41		12		71					**107**	89
MW-30	21-Apr-05																
MW-30	11-Nov-05					13											
MW-30	14-Apr-06					15											
MW-30	10-Nov-06					32											83
MW-30	20-Apr-07		416	3		43		60	**18**							**44**	150
MW-30	9-Nov-07		419	3.2		**117**		160	**21**		52					**118**	147
MW-30	19-May-08		106	**10.1**		31.9	5.84J	58.4	4.9J		13.9J					**30.7**	25.9
MW-30	7-Nov-08		149B	0.59JB		32.0B	5.75J	58.4B	8.97JB		16.6J		8.54JB			**53.4B**	38.4

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-31	1-May-98																
MW-31	17-Aug-98				**14**	**88**			**38**		82					**81**	220
MW-31	9-Sep-98				**3.3**	42			**15**								530
MW-31	7-Oct-98				**1.8**	10											
MW-31	8-Dec-98				**2.6**	24											
MW-31	11-Jan-99																
MW-31	8-Feb-99																
MW-31	19-Apr-99																
MW-31	3-Dec-99																
MW-31	13-Apr-00																
MW-31	19-Dec-00																
MW-31	17-Apr-01					16.5											
MW-31	6-Dec-01					**55**											
MW-31	11-Apr-02																
MW-31	6-Nov-02																
MW-31	18-Apr-03																
MW-31	5-Nov-03																
MW-31	28-Apr-04																
MW-31	18-Nov-04					**64**	32		14							**120**	64
MW-31	21-Apr-05																
MW-31	11-Nov-05					17											
MW-31	14-Apr-06																
MW-31	9-Nov-06					15											
MW-31	20-Apr-07																
MW-31	9-Nov-07			1		38		19	**22**	0.22						**47**	32
MW-31	19-May-08		50.7J			18.1		13.6	8.81J		6.67J		4.33J		**7.52**	16.9J	13
MW-31	7-Nov-08		66.6JB			30.0B		23.3B	**15.3B**		7.34J		8.57JB			**40.3B**	12.1
MW-31d	1-May-98			3		**110**	13		**19**		68					**280**	210
MW-31d	17-Aug-98				**8.6**	10											94
MW-31d	9-Sep-98				**2.8**	25										**60**	260
MW-31d	7-Oct-98				**2.2**												
MW-31d	8-Dec-98																
MW-31d	11-Jan-99					19.1											
MW-31d	8-Feb-99																
MW-31d	19-Apr-99																
MW-31d	3-Dec-99																
MW-31d	13-Apr-00																
MW-31d	19-Dec-00																
MW-31d	18-Apr-01																
MW-31d	6-Dec-01																
MW-31d	11-Apr-02																
MW-31d	6-Nov-02																
MW-31d	18-Apr-03					10.1											
MW-31d	5-Nov-03																
MW-31d	28-Apr-04																
MW-31d	18-Nov-04					24										**50**	
MW-31d	21-Apr-05																
MW-31d	11-Nov-05																
MW-31d	14-Apr-06																
MW-31d	9-Nov-06																
MW-31d	20-Apr-07																10
MW-31d	9-Nov-07																
MW-31d	19-May-08		23.2J			8.61J		4.27J	3.63J				4.16J	7.6J		6.26J	4.39J
MW-31d	6-Nov-08	2.66J	31.2JB	**6.26B**		11.7B		8.19JB	10.2B		5.34J		8.47JB			**25.1B**	6.85J

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-32	1-May-98					23	44									**41**	59
MW-32	17-Aug-98				**5.5**	10	31										130
MW-32	9-Sep-98				**5.4**	34	45				54					**60**	240
MW-32	6-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	7-Dec-98				8	40	42				77					**74**	85
MW-32	11-Jan-99						26.5										
MW-32	8-Feb-99						24										
MW-32	19-Apr-99						28.1										
MW-32	3-Dec-99						25.1										
MW-32	13-Apr-00				1.2		40.9										
MW-32	19-Dec-00				1.0		25.8										
MW-32	17-Apr-01						22.8										
MW-32	4-Dec-01						14.7										
MW-32	11-Apr-02						12.1										
MW-32	6-Nov-02						12.2										
MW-32	18-Apr-03				1.4		24										
MW-32	4-Nov-03						10.3										
MW-32	28-Apr-04						10.5										
MW-32	18-Nov-04						11										
MW-32	21-Apr-05																
MW-32	11-Nov-05																
MW-32	14-Apr-06																
MW-32	9-Nov-06																
MW-32	20-Apr-07							18									21
MW-32	9-Nov-07																29
MW-32	19-May-08		16.7J			4.81J		10.7	4.53J				4.35J			0.72J	5.83J
MW-32	6-Nov-08		18.4JB	**8.50B**		4.14JB	4.41J	6.41JB	6.36JB				9.0JB			8.39JB	4.39J
TB-1a	1-May-98				1.1								14				50
TB-1a	17-Aug-98				**9.3**	21	20										130
TB-1a	9-Sep-98				**2.6**	14	16										160
TB-1a	7-Oct-98				**4.0**	17	14										
TB-1a (dup)	7-Oct-98				**2.1**		14										
TB-1a	9-Dec-98				**3.0**					0.22							
TB-1a	11-Jan-99																
TB-1a	8-Feb-99																
TB-1a	19-Apr-99																
TB-1a	3-Dec-99																
TB-1a	13-Apr-00																
TB-1a	20-Dec-00																
TB-1a	17-Apr-01																
TB-1a	3-Dec-01							17.3									
TB-1a	12-Apr-02																
TB-1a	5-Nov-02				**2.2**	12.7											
TB-1a	17-Apr-03																
TB-1a	4-Nov-03																
TB-1a	14-Apr-04																
TB-1a	18-Nov-04				**2**	20											
TB-1a	21-Apr-05				**2**												
TB-1a	11-Nov-05				**2**	12				0.95							67
TB-1a	14-Apr-06				**3**					0.88							
TB-1a	9-Nov-06				**5**	17				**2.5**							87
TB-1a	19-Apr-07				**39**	14		88	14	**1.9**						30	262
TB-1a	8-Nov-07				**8**			29									51
TB-1a	20-May-08		22J	1.94	0.87J	3.47J		16.8	3.79J	0.143J							10.1
TB-1a	11-Nov-08	12.9	502		**5.92**	**95.8B**	44.9	511B	**19.4**	0.76	75.5	27.8	7.84JB			**200B**	198

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
TB-1a deep	8-Jun-01																
TB-1a deep	6-Dec-01																
TB-1a deep	11-Apr-02																
TB-1a deep	6-Nov-02																
TB-1a deep	18-Apr-03																
TB-1a deep	4-Nov-03																
TB-1a deep	28-Apr-04																
TB-1a deep	18-Nov-04																
TB-1a deep	21-Apr-05																
TB-1a deep	11-Nov-05																
TB-1a deep	14-Apr-06																
TB-1a deep	10-Nov-06																
TB-1a deep	20-Apr-07																
TB-1a deep	8-Nov-07																
TB-1a deep	19-May-08		15.6J			22.6		5.37J	5.36J		6.9J		4.69J		**5.54**	6.86J	7.06J
TB-1a deep	7-Nov-08		15.2JB	1.05B		16.8B		8.18JB	5.33JB				8.69JB			18.9JB	
MW-33	6-Aug-98				**5.8**	46	18									**73**	110
MW-33	7-Dec-98				**2.7**	18											
MW-33	26-Apr-99					15.5											58.5
MW-33	2-Dec-99					18.1											61
MW-33	13-Apr-00																
MW-33	18-Apr-01																
MW-33	9-Apr-02																
MW-33	16-Apr-03				1.2	26.9	11.8									**47.1**	71.5
MW-33	21-Apr-04					10.5											
MW-33	22-Apr-05		660	3		**54**	18		**32**							**92**	885
MW-33	14-Apr-06			3		47	15		**27**							**80**	669
MW-33	20-Apr-07					19		14								**30**	**1165**
MW-33	15-May-08		54.9J			20.2		14.6	5.11J		6.9J		4.47J		**10.7**	19.2J	31.1
MW-34	6-Aug-98			**4.9**	**8.4**	43	20				64					**110**	180
MW-34	7-Dec-98				**2.2**	14											59
MW-34	26-Apr-99																73.2
MW-34	2-Dec-99																
MW-34	13-Apr-00																
MW-34	18-Apr-01																
MW-34	9-Apr-02																
MW-34	16-Apr-03																
MW-34	21-Apr-04														**10.3**		
MW-34	22-Apr-05		1108	**10**	1.0	29			**33**							**74**	439
MW-34	13-Apr-06																
MW-34	20-Apr-07																16
MW-34	19-May-08		121			11.7		12.3		0.191J	5.43J		4.19J			8.81J	23

Table 3a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**50**	**2000**	**4***	**1.75**	**50**	**70***	**1000**	**15**	**1.05**	**100**	**50**	**17.5**	**NE**	**0.28***	**3.5***	**1050**
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
MW-34d	6-Aug-98																
MW-34d (dup)	6-Aug-98																
MW-34d	7-Dec-98																
MW-34d	26-Apr-99																
MW-34d	2-Dec-99																
MW-34d	13-Apr-00																
MW-34d	18-Apr-01																
MW-34d	9-Apr-02					12.5											
MW-34d	16-Apr-03																
MW-34d	21-Apr-04																
MW-34d	22-Apr-05																
MW-34d	13-Apr-06				**4.0**												
MW-34d	20-Apr-07																
MW-34d	19-May-08		27.4J			10.1		3.95J	5.49J				4.46J				
MW-35	6-Aug-98			**4.3**	**9.8**	47	30				52					**120**	130
MW-35	7-Dec-98				**4.6**	22	15				79					**43**	74
MW-35	26-Apr-99						13										
MW-35	2-Dec-99																
MW-35	13-Apr-00																
MW-35	18-Apr-01																
MW-35	9-Apr-02																
MW-35	16-Apr-03																
MW-35	21-Apr-04																
MW-35	22-Apr-05			**5**		19			**18**							**52**	134
MW-35	13-Apr-06			2		10											
MW-35	20-Apr-07		316	**6**	1.0	39	10	55	**19**							**109**	149
MW-35	19-May-08		49.5J			5.40J		6.03J					4.43J		**11.7**		8.04J
MW-36	4-Dec-08		159B			**52.3B**	21.9	57.5B	13.6	0.13JB	24.2J	9.10J				**81.6**	47.1
MW-36d	4-Dec-08		102B			**70.4B**	6.46J	32.8B	4.12J	0.13JB	20.0J				**7.59**	**37**	55.6

Notes:
All units are in micrograms per liter (parts per billion).
- Concentration exceeds N.C. Groundwater Standards (2L
- Indicates results below detection limits
* - groundwater protection standard
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Lim
** - New background well; NS - Not Sampled; dup - duplicate sample

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		700	1	0.56	700	50	0.38	200	2.8	2800	70	70	1.4	24	70	0.51	7	5000	700	NE	1000	2100	100	4.6	550	2.6	0.7	530	0.015	1400	0.0004	100	4200	NE	3.5	0.005
SWSL		100	1	1	100	3	1	1	1	10	5	5	1	5	5	1.00	5	10	10	10	1	1	1	1	1	1.0	1	5	1	5	1	5	100	15	10	1
MW-11	15-Apr-94																																			
MW-11	11-May-94																																			
MW-11	25-Aug-94																																			
MW-11	29-Sep-94																																			
MW-11	13-Jun-95																																			
MW-11	28-Sep-95																																			
MW-11	31-Oct-95																																			
MW-11	22-Mar-96																																			
MW-11	27-Nov-96																																			
MW-11	22-Apr-97																																			
MW-11	31-Oct-97																																			
MW-11	11-May-98																																			
MW-11	8-Dec-98																																	24		
MW-11	14-Apr-99																																			
MW-11	30-Nov-99																																			
MW-11	5-Apr-00																																			
MW-11	18-Dec-00																																			
MW-11	18-Apr-01																																			
MW-11	27-Nov-01																																			
MW-11	5-Apr-02																																			
MW-11	5-Nov-02																																			
MW-11	15-Apr-03																																			
MW-11	30-Oct-03																																			
MW-11	21-Apr-04																																			
MW-11	18-Nov-04																																			
MW-11	21-Apr-05																																			
MW-11	11-Nov-05																																			
MW-11	14-Apr-06																																			
MW-11	10-Nov-06																																			
MW-11	20-Apr-07																																			
MW-11	8-Nov-07																																			
MW-11	15-May-08																																			
MW-11	10-Nov-08										0.12J																									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		700	1	0.56	700	50	0.38	200	2.8	2800	70	70	1.4	24	70	0.51	7	5000	700	NE	1000	2100	100	4.6	550	2.6	0.7	530	0.015	1400	0.0004	100	4200	NE	3.5	0.005
SWSL		100	1	1	100	3	1	1	1	10	5	5	1	5	5	1.00	5	10	10	10	1	1	1	1	1	1.0	1	5	1	5	1	5	100	15	10	1
MW-11d	31-Oct-95																																			
MW-11d	22-Mar-96																																			
MW-11d	27-Nov-96																																			
MW-11d	22-Apr-97																																			
MW-11d	31-Oct-97																																			
MW-11d	11-May-98																																			
MW-11d	8-Dec-98																																			
MW-11d	14-Apr-99																																			
MW-11d	30-Nov-99																																	20		
MW-11d	5-Apr-00																																			
MW-11d	18-Dec-00																																			
MW-11d	18-Apr-01																																			
MW-11d	27-Nov-01																																			
MW-11d	5-Apr-02																																			
MW-11d	5-Nov-02																																			
MW-11d	15-Apr-03																																			
MW-11d	30-Oct-03																																			
MW-11d	21-Apr-04																																			
MW-11d	18-Nov-04																																			
MW-11d	21-Apr-05																																			
MW-11d	11-Nov-05																																			
MW-11d	14-Apr-06																																			
MW-11d	10-Nov-06																																			
MW-11d	20-Apr-07																																	24.5		
MW-11d	8-Nov-07																																			
MW-11d	15-May-08										0.31J																									
MW-11d	10-Nov-08										0.22J																									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-5	6-Mar-94		**4.9**					5.3	**14**			2.1			**150**		0.84					9.2		**17**			**6.3**	3.23	2							
MW-5	15-Apr-94		**4.2**				**1.1**		**11.8**	35.7		1.5			**99.6**		1.2					17.9		**11.7**		**5.7**	**6.3**									
MW-5	11-May-94		**2.4**						**8.2**	24					**74**		1.1				2	26		**11**		**5.7**	**4.9**									
MW-5	31-May-94		**3.1**					7.2	**8.1**		0.6	1.2			47		1.2										**5.4**	2.72								
MW-5	10-Jun-94		**2.8**					7.6	**7.1**	24.5		1.2			**71.8**		1.4										**3.6**									
MW-5	30-Sep-94		**1.9**					8.9		18.7					41.6												**4.6**									
MW-5	13-Jun-95		**10**						**19**	48		8															**10**			22		196				
MW-5	28-Sep-95	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	31-Oct-95		**9**						**11**	61		14			**230**									**18**												
MW-5 (dup)	31-Oct-95		**9**						**16**	53		14			**210**									**15**			**9**									
MW-5	30-Jan-96		**10**						**17**	50		23			**198**												**7**			16						
MW-5	28-Nov-96	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	22-Apr-97	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	1-Nov-97	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	6-May-98	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	8-Dec-98		**7.9**						**17**	20		15	**6.0**		**74**									**79**			**11**	6.5		10						
MW-5	16-Apr-99		**8**						**14**	22		42			**87**									**100**			**6**								26	
MW-5	2-Dec-99		**6**						**16**			**72**			**60**												**6**									
MW-5	11-Apr-00		**6**						**22**	14		34	**11.0**		**70**												**10**									140
MW-5	20-Dec-00								**14**			17			39																					
MW-5	16-Apr-01								**17**			29	**7.0**		44																					
MW-5	3-Dec-01								**12**			20			31																					
MW-5	12-Apr-02								**16**			33	**7.0**		32																					
MW-5	5-Nov-02								**15**	10		31	**6.0**		26																					
MW-5	17-Apr-03								**11**			44	**14.0**		24																					
MW-5	4-Nov-03	540											**8**																				360			
MW-5	4-Nov-03	490											**8**																				360			
MW-5	14-Apr-04																				**1000**															
MW-5	18-Nov-04											``																								
MW-5	21-Apr-05																																			
MW-5	11-Nov-05									6	9.2																									
MW-5	14-Apr-06																																			
MW-5	9-Nov-06									8.6	5.8																									
MW-5	19-Apr-07									6.7	6.8																									
MW-5	8-Nov-07		**4.9**			5.9			2.6	20.5	8.8																		**13**							
MW-5R	21-Apr-04											56.2	**16.5**		13.1																					
MW-5R	21-May-08		0.34J			1.00J			0.26J	0.67J		4.22J	**6.17**		0.8J									0.24J												
MW-5R	10-Nov-08		0.23J			0.63J			0.13J			1.95J	**5.49**		0.61J									0.23J												

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-6	6-Mar-94		**1.7**					5.9	**4.6**		0.83				34							3.9		**37**			**3.4**	2.42								
MW-6	15-Apr-94								2.1	8.5					12.5							2.6		**21**		1.2	**1.9**									
MW-6	11-May-94								**4.9**	18.4					28.7							2.6		**64.2**		1.2	**2.3**									
MW-6 (dup)	1-Jun-94		**3.7**					14	**7.5**		4.3				50							11		**130**			**7**	16.6								
MW-6	25-Aug-94									22					36									**79.8**												
MW-6	29-Sep-94		**2**					1.4		18					34									**6.1**		**66**	**3**									
MW-6	13-Jun-95								**6**	19					28									**61**												
MW-6	28-Sep-95	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	31-Oct-95								**6**	22					32									**56**												
MW-6	30-Jan-96		**6**						**11**	37					61																					
MW-6	29-Nov-96								**16**	34					41									**91**												
MW-6	22-Apr-97		**5.4**						**15**	37		6.7			29									**88**												
MW-6	2-Nov-97		**6.1**						**16**	28		7.8			28									**90**			**5.2**									
MW-6	6-May-98								**17**	29		13			34									**140**												
MW-6 (dup)	6-May-98								**19**	30		14			35									**140**												
MW-6	8-Dec-98								**19**	26		14			40									**180**												
MW-6	16-Apr-99		**5**						**11**	16					26									**110**												
MW-6	2-Dec-99								**6**			7			12									**67**												
MW-6	11-Apr-00								**6**			7			12									**63**												
MW-6	19-Dec-00														6									**20**												
MW-6	16-Apr-01											6			8									**46**												
MW-6	3-Dec-01											6																								
MW-6	12-Apr-02											5			7									**26**												
MW-6	5-Nov-02											5												**10**												
MW-6	17-Apr-03																																	13		
MW-6	4-Nov-03											6																								
MW-6	14-Apr-04											5.7																								
MW-6	18-Nov-04																																			
MW-6	21-Apr-05																																			
MW-6	11-Nov-05																																			
MW-6	14-Apr-06																																			
MW-6	9-Nov-06																																			
MW-6	19-Apr-07																																			
MW-6	8-Nov-07		**3.3**										**7.4**																**3.4**							
MW-6	20-May-08		**3.85**			1J			0.9J	3.85J		2.3J	**2.07**		1.22J			1.86J		1.06J	0.14J			0.62J					**3.29**					2.17J		
MW-6	11-Nov-08		**4.12**			1.29J			0.98J	3.90J		2.22J	**2.72**		1.27J						0.20J			1.08					**4.01**	0.33J						

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-6d	8-Jun-01											6			8																						
MW-6d	4-Dec-01																																				
MW-6d	9-Apr-02																																				
MW-6d	7-Nov-02																																				
MW-6d	16-Apr-03																																				
MW-6d	4-Nov-03																																				
MW-6d	21-Apr-04																																				
MW-6d	18-Nov-04																																				
MW-6d	21-Apr-05																																				
MW-6d	11-Nov-05																																				
MW-6d	11-Apr-06																																				
MW-6d	9-Nov-06																																				
MW-6d	20-Apr-07																																				
MW-6d	8-Nov-07																																				
MW-6d	20-May-08								0.91J		0.49J	0.85J			5.7							0.91J		0.34J			0.71J			3.04J							
MW-6d	6-Nov-08		0.23J						1.13		0.57J	1.10J	0.44J		6.12							1.10		0.77J			**1.06**			2.76J							
MW-6d (dup)	6-Nov-08		0.25J						1.13		0.61J	1.00J	0.45J		6.16							0.99J		0.68J			**1.08**			2.69J							

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-7	6-Mar-94																																			
MW-7	15-Apr-94																																			
MW-7	11-May-94																																			
MW-7	31-May-94																																			
MW-7	25-Aug-94																																			
MW-7	29-Sep-94																																			
MW-7	13-Jun-95																																			
MW-7	28-Sep-95	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	31-Oct-95									11					5																					
MW-7	30-Jan-96																																			
MW-7	29-Nov-96								**5**	22		2			9												4									
MW-7	21-Apr-97									19		5.9			11																					
MW-7	1-Nov-97									26		6.2			10																					
MW-7	6-May-98									24		21			17																					
MW-7	8-Dec-98		**7.2**						**5.2**	32		36			20									**12**												
MW-7	16-Apr-99									21		24			14																					
MW-7	2-Dec-99											16			9																					
MW-7	11-Apr-00											17			8																					
MW-7 (dup)	11-Apr-00											17			8																			16		
MW-7	19-Dec-00											10			5																					
MW-7 (dup)	19-Dec-00											12			6																					
MW-7	16-Apr-01											13			6																			16		
MW-7	4-Dec-01																																			
MW-7	9-Apr-02											7																								
MW-7	6-Nov-02											12																								
MW-7	16-Apr-03											24																								
MW-7	5-Nov-03											15																								
MW-7	21-Apr-04											18.3																								
MW-7 (dup)	21-Apr-04											19.9																								
MW-7	18-Nov-04											16.4																								
MW-7	21-Apr-05											26																								
MW-7	11-Nov-05											12.2																								
MW-7	14-Apr-06											19.3																								
MW-7	9-Nov-06											27.2																								
MW-7	20-Apr-07											24.3																	**5.4**							
MW-7	8-Nov-07		**3.5**									22.3	**2.7**																**7.7**							
MW-7	15-May-08		**1.61**			0.24J						7.68	0.77J	0.15J	0.44J														**2.74**					0.907J		
MW-7	5-Nov-08		**1.04**			0.14J						3.14J	0.83J	0.16J	0.25J						0.15J								**2.09**	1.10J						

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-8	6-Mar-94		**6.8**				**1**	18	**16**		2.2	7.6	**3.2**		13		1.3				4	7.3		**450**	0.56		**7.5**	35.6	**0.76**							
MW-8	15-Apr-94		**7.9**				**1.8**		**17.5**	39.8	1.3	8.9	**4.9**		**88.6**	**3**	1.5				5	5.1		**310**	1.4	8.8	**8.1**	39.7								
MW-8	11-May-94		**5.6**						**15**	34					**83**									**278**			**7**	27.1								
MW-8	31-May-94		**12**				**2.6**	16	**29**		1.1	23	**13**		**110**		1.6				11	4.4	3.1	**310**			**16**	89								
MW-8	25-Aug-94									51.3					**109**									**400**				32								
MW-8	30-Sep-94		**5.8**					8.9	**13**	35		5.6	**5.2**		**86**									**300**		12.2		22.8								
MW-8	13-Jun-95								**6**	15					36									**47**				19								
MW-8	28-Sep-95	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	31-Oct-95		**8**						**14**	40	8	23			**72**									**137**	32		**9**			8						
MW-8	30-Jan-96		**10**						**23**	37		34			**71**									**123**			**18**	58		10				20		
MW-8	29-Nov-96		**4**					1	**12**	15		24	**3**		18									**23**			**13**	13		5	**8**					
MW-8	21-Apr-97								**8.1**			20			10									**16**			**8.3**							8		
MW-8	2-Nov-97								**5.2**			22			6.3																					
MW-8	6-May-98		**5.7**						**8.7**			56			15									**13**			**7.8**	6.1								
MW-8	8-Dec-98								**5.2**			37			7.9																					
MW-8	16-Apr-99								**6**			55	**6**		13																					
MW-8 (dup)	16-Apr-99											41			10																					
MW-8	2-Dec-99	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	11-Apr-00											12																								
MW-8	20-Dec-00																																			
MW-8	16-Apr-01																																			
MW-8	3-Dec-01																																			
MW-8	12-Apr-02																																			
MW-8	5-Nov-02																																			
MW-8	17-Apr-03																																	10		
MW-8	4-Nov-03											12																								
MW-8	14-Apr-04											7.9																								
MW-8	18-Nov-04											7.9																								
MW-8	21-Apr-05																																			
MW-8	11-Nov-05																																			
MW-8	14-Apr-06																																			
MW-8	9-Nov-06																																			
MW-8	20-Apr-07											18.9																								
MW-8	8-Nov-07											6.6																								
MW-8	20-May-08		0.19J			0.16J			0.39J		0.38J	14.2	0.16J		0.96J									0.76J			0.28J									
MW-8	10-Nov-08		0.14J						0.23J		0.39J				0.58J						0.11J			1.17			0.17J									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-8d	8-Jun-01																																			
MW-8d	4-Dec-01																																			
MW-8d	9-Apr-02																																			
MW-8d (dup)	9-Apr-02																																			
MW-8d	7-Nov-02																																			
MW-8d	16-Apr-03																																			
MW-8d	4-Nov-03																																			
MW-8d	21-Apr-04																																			
MW-8d	18-Nov-04																																			
MW-8d	21-Apr-05																																			
MW-8d	11-Nov-05																																			
MW-8d	14-Apr-06																																			
MW-8d	10-Nov-06																																			
MW-8d	20-Apr-07																																			
MW-8d	8-Nov-07																																			
MW-8d	15-May-08										0.28J	0.07J			0.17J																					
MW-8d	6-Nov-08										0.31J													0.62J												

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		700	1	0.56	700	50	0.38	200	2.8	2800	70	70	1.4	24	70	0.51	7	5000	700	NE	1000	2100	100	4.6	550	2.6	0.7	530	0.015	1400	0.0004	100	4200	NE	3.5	0.005
SWSL		100	1	1	100	3	1	1	1	10	5	5	1	5	5	1.00	5	10	10	10	1	1	1	1	1	1.0	1	5	1	5	1	5	100	15	10	1
MW-9	6-Mar-94		5.3					7	8.7		5.8		1.6		100		1.3				6	4.2		680	0.73		6.6	15.2	0.96							
MW-9	15-Apr-94		5.6						12.4	14.1	4.9	0.7	2.4		96.8		1.8				1.6	3.6		357		7.3	8.2	17.3								
MW-9	11-May-94		6.8						13		5				134									357		20.1	7.6	20.5								
MW-9	31-May-94		8.2					8.7	14		6.6		3.4		170		1.7				1.7	3.6		460			8.8	23.3								
MW-9	25-Aug-94														165									558												
MW-9	29-Sep-94		7					6.5			5.1				131									400			8.2	16								
MW-9	13-Jun-95		11					7	23	20					203									258			11	8		28						
MW-9	28-Sep-95	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	31-Oct-95		15						27	29					310									278			14	14		44						
MW-9	30-Jan-96		14						23	22					270											11	8	6		33						
MW-9	29-Nov-96		22						31						280																					
MW-9	22-Apr-97		24						28						220													14.2		16						
MW-9	2-Nov-97														200															32						
MW-9	6-May-98		17						32						210												13			31						
MW-9	8-Dec-98		14						31						200												13			53				20		
MW-9	16-Apr-99		7						20						140												7			49				12		
MW-9	2-Dec-99								20						120																					
MW-9	11-Apr-00								20						110																					
MW-9	20-Dec-00								18						100															25						
MW-9	16-Apr-01								15			6			93												6			20				21		
MW-9	3-Dec-01								5			20			100															25						
MW-9 (dup)	3-Dec-01											19			89															20				22		
MW-9	12-Apr-02											21			97																					
MW-9	5-Nov-02											20			84															19						
MW-9	17-Apr-03		5									29			100						6									19				59		
MW-9	4-Nov-03		5									28			83						13							8								
MW-9	14-Apr-04		5.86									27	5.5		96						15				2.5			7.4	6.2	11.8				28		
MW-9	18-Nov-04											6.4	5.2		73.7						6.6								26.5	13.2						
MW-9	21-Apr-05												5.2		69.6														29.6	9.5						
MW-9	11-Nov-05												6.7		63.1														28.8	8.3						
MW-9	14-Apr-06												6.9		47.6														29.5							
MW-9	9-Nov-06												5.8		39.9														23							
MW-9	19-Apr-07		4.4										8.4		44.4														32.9							
MW-9	8-Nov-07		1.6				1		1.1				7.4		28.9														26.4							
MW-9	20-May-08		2.17			0.28J	0.86J		0.45J	3.53J		3.83J	7.73		28.9	0.9J		1.11J			1.01	0.24J		0.24J	1.51			1.69J	25.6	0.42J						
MW-9 (dup)	20-May-08		2.27			0.27J			0.42J			3.62J	7.42		30.3			1.01J			1.03			0.26J	1.32			1.10J	27.7			0.23J				
MW-9	11-Nov-08		1.74			0.20J			0.28J	2.24J		3.28J	6.26		21.6						0.60J			0.72J	1.06			0.48J	19.1							

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-10	6-Mar-94		**2.4**					16	**9.8**		2.5				37		2.4					12		**72**			**4.6**	26.7									
MW-10	15-Apr-94		**1.8**				**2.6**		**8**	18.1	1.6				24.2		2.6							**67.3**		**5.5**	**4.8**	16.9								
MW-10	11-May-94		**1.4**				**2.6**		**6.8**	15.8	1.7				23		1.8					16.3		**54.8**		**4**	**4**	6.7								
MW-10	31-May-94		**3.7**					17	**15**		3.9				57		2.7					15		**120**			**8.7**	19.1								
MW-10	25-Aug-94							18.4		47.7					**72**							18		**194**	8	**18.7**	**9.2**	15								
MW-10	29-Sep-94		**4.2**					3.5	**19**	37.7	3.4				56.3		3.5					17.1		**148**		**7.2**		13.1								
MW-10	13-Jun-95		**7**					13	**20**	53					**84**									**223**		**13**	**13**	14		18						
MW-10	28-Sep-95	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	31-Oct-95							14	**8**	33		10			44							14		**47**			**7**			46						
MW-10	30-Jan-96		**8**					8	**18**	48		12			**101**											**10**	**9**	8		29						
MW-10	28-Nov-96								**2**	3		1			12									**15**			**2**									
MW-10	22-Apr-97		**12**						**33**	31		20			**160**									**120**			**25**	19.6		8.5				7.3		
MW-10	1-Nov-97	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	8-Dec-98								**19**			48			**140**									**270**			**16**	12								
MW-10	11-Jan-99		**7***						**18**	19		36			**140**									**320**			**14**							NS		
MW-10	8-Feb-99		**9***						**21**	24		41			**140**												**17**	20						NS		
MW-10 (dup)	8-Feb-99		**8***						**17**	20		38			**130**												**13**							NS		
MW-10	16-Apr-99											26			**160**									**410**										16		
MW-10	2-Dec-99														40									**77**			**6**							14		
MW-10	12-Apr-00								**6**			7			46									**88**			**7**									
MW-10	20-Dec-00														35									**40**												
MW-10	17-Apr-01														34									**34**												
MW-10	3-Dec-01														26									**18**												
MW-10	12-Apr-02														22									**18**												
MW-10	5-Nov-02														20									**16**			**8**			6						
MW-10 (dup)	5-Nov-02														21									**16**			**9**			6						
MW-10	17-Apr-03														26									**22**			**7**			5						
MW-10	4-Nov-03														26															5						
MW-10	14-Apr-04																													5				189		
MW-10	18-Nov-04											6.4																						37		
MW-10	21-Apr-05											9.9																								
MW-10	11-Nov-05											17.6			5.7																					
MW-10	14-Apr-06											11.9																								
MW-10	9-Nov-06											27.7			7.8																					
MW-10	19-Apr-07											7.4			6.3																			24		
MW-10	8-Nov-07																							1			**1.3**							21		
MW-10	20-May-08		**1.16**						1.81	1.03J		7.13	0.46J		6.07		0.14J					0.17J		3.69			**2.34**	0.52J	0.49J	0.55J				3.12J		
MW-10	11-Nov-08		**2.26**						**2.99**	1.46J		11.3	0.66J		9.44									1.89			**4.2**	0.41J	**1.67**	0.83J						

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-10d	8-Jun-01														12									16													
MW-10d	4-Dec-01														17																					
MW-10d	11-Apr-02														16																					
MW-10d	5-Nov-02														13																					
MW-10d	17-Apr-03														11																					
MW-10d	4-Nov-03														8																			13		
MW-10d	26-Apr-04														5.9																			32.4		
MW-10d	18-Nov-04																																	43		
MW-10d	21-Apr-05																																			
MW-10d	11-Nov-05																																			
MW-10d	14-Apr-06																																			
MW-10d	10-Nov-06																																			
MW-10d	20-Apr-07																																	19.9		
MW-10d	8-Nov-07																																	20		
MW-10d	20-May-08								0.36J		0.3J	0.2J			2.01J									0.71J			0.29J			0.36J						
MW-10d	6-Nov-08		0.22J		6.01J				0.37J		0.21J	0.15J			2.16J							0.39J		1.47			0.32J									
MW-22	9-Jun-97																																			
MW-22	18-Aug-97																																			
MW-22	2-Nov-97														6.9															5.2						
MW-22	6-May-98																																			
MW-22	8-Dec-98														8.6																					
MW-22	16-Apr-99														6																					
MW-22	2-Dec-99																																			
MW-22	12-Apr-00																																			
MW-22	20-Dec-00														9																					
MW-22	17-Apr-01														9																					
MW-22	4-Dec-01														6																					
MW-22	9-Apr-02														5																					
MW-22	6-Nov-02														5																					
MW-22	17-Apr-03																																			
MW-22	5-Nov-03																																			
MW-22	26-Apr-04																																			
MW-22	19-Nov-04																																			
MW-22	22-Apr-06																																			
MW-22	11-Nov-05																																			
MW-22	14-Apr-07																																			
MW-22	9-Nov-06																																			
MW-22	20-Apr-07																																			
MW-22	8-Nov-07																																			
MW-22	15-May-08														0.25J												0.31J							1.47J		
MW-22	6-Nov-08																							0.74J			0.32J									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-23	9-Jun-97							6.4	**9.1**	40		7.6			**86**						16			**100**			**9.3**	13								
MW-23	18-Aug-97									33		11			**93**									**85**												
MW-23	2-Nov-97								**6.3**	26		11			68									**40**			**5.6**									
MW-23	5-May-98														6.9									10												
MW-23	8-Dec-98														7.4																			8.3		
MW-23 (dup)	8-Dec-98														9.2																					
MW-23	16-Apr-99																																			
MW-23	2-Dec-99																																			
MW-23 (dup)	2-Dec-99																																			
MW-23	12-Apr-00																																			
MW-23	20-Dec-00																																			
MW-23	17-Apr-01																																			
MW-23	4-Dec-01																																			
MW-23	11-Apr-02																																			
MW-23	6-Nov-02																																			
MW-23	17-Apr-03																																			
MW-23 (dup)	17-Apr-03																																			
MW-23	5-Nov-03																																			
MW-23	26-Apr-04																																			
MW-23	19-Nov-04																																			
MW-23	21-Apr-05																																			
MW-23	11-Nov-05																																			
MW-23	14-Apr-06																																			
MW-23	9-Nov-06																																			
MW-23	20 ap 07																																			
MW-23	8-Nov-07																																			
MW-23	15-May-08										0.17J				0.67J												0.19J							0.86J		
MW-23	6-Nov-08														0.35J									0.37J			0.13J									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-23d	5-May-98																																			
MW-23d	8-Dec-98																																	7.8		
MW-23d	16-Apr-98																																			
MW-23d	2-Dec-99																																	10		
MW-23d	12-Apr-00																																	10		
MW-23d	20-Dec-00																																			
MW-23d	17-Apr-01																																			
MW-23d	4-Dec-01																																			
MW-23d	11-Apr-02																																			
MW-23d	6-Nov-02																																			
MW-23d	17-Apr-03																																			
MW-23d	5-Nov-03																																			
MW-23d	26-Apr-04																																			
MW-23d	19-Nov-04										6.4																									
MW-23d	21-Apr-05										6.9																									
MW-23d	11-Nov-05																																			
MW-23d	14-Apr-06																																			
MW-23d	9-Nov-06																																			
MW-23d	20-Apr-07																																			
MW-23d	8-Nov-07																																			
MW-23d	15-May-08										0.3J																									
MW-23d	6-Nov-08										0.15J																									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-24	9-Jun-97								**8.5**	12		5.1			37						160			**200**	14			57								
MW-24	18-Aug-97														68						400			**380**												
MW-24	1-Nov-97														56						260			**340**	25			98								
MW-24 (dup)	1-Nov-97														68						340			**370**	33			131								
MW-24	5-May-98														42						230			**240**	28			112								
MW-24	8-Dec-98		**12**						**15**	30		26			**85**						140			**280**	23			93						7.7		
MW-24	16-Apr-99									19					55						46			**170**	13			60								
MW-24	2-Dec-99														25									**43**				21						11		
MW-24	12-Apr-00								**7**			5			42									**39**			**7**	33								
MW-24	20-Dec-00								**7**			5			44									**29**			**8**	21								
MW-24	16-Apr-01											5			34									**18**			**6**	12								
MW-24 (dup)	16-Apr-01											5			34									**20**			**6**	12								
MW-24	3-Dec-01											5			33									**12**			**8**	10								
MW-24	12-Apr-02														27												**6**	8								
MW-24	5-Nov-02														21																					
MW-24	17-Apr-03														19																			30		
MW-24	4-Nov-03														9																					
MW-24	14-Apr-04														6.5																					
MW-24	18-Nov-04																																			
MW-24	21-Apr-05																																			
MW-24	11-Nov-05										7																									
MW-24	14-Apr-06										8.5																									
MW-24	9-Nov-06										9.8																									
MW-24	19-Apr-07										11.4																									
MW-24	8-Nov-07										7.2																									
MW-24	20-May-08										14.8				0.29J									0.19J			0.38J							1.52J		
MW-24	11-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27	4-May-98																																	7.5		
MW-27	7-Dec-98																																	6.4		
MW-27	26-Apr-99																																	20		
MW-27	3-Dec-99																																			
MW-27	12-Apr-00																																			
MW-27	18-Apr-01																																			
MW-27	12-Apr-02																																			
MW-27	17-Apr-03																																			
MW-27	26-Apr-04																																			

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		700	1	0.56	700	50	0.38	200	2.8	2800	70	70	1.4	24	70	0.51	7	5000	700	NE	1000	2100	100	4.6	550	2.6	0.7	530	0.015	1400	0.0004	100	4200	NE	3.5	0.005
SWSL		100	1	1	100	3	1	1	1	10	5	5	1	5	5	1.00	5	10	10	10	1	1	1	1	1	1.0	1	5	1	5	1	5	100	15	10	1
MW-28	1-May-98																																			
MW-28	17-Aug-98																																			
MW-28	9-Sep-98																																			
MW-28	7-Oct-98																																			
MW-28	9-Dec-98																																	12		
MW-28	12-Jan-99																																			
MW-28	9-Feb-99																																			
MW-28	19-Apr-99																																			
MW-28	3-Dec-99																																			
MW-28	12-Apr-00																																			
MW-28	18-Apr-01																																			
MW-28	12-Apr-02																																			
MW-28	17-Apr-03																																			
MW-28	26-Apr-04																																			
MW-28	22-Apr-05																																			
MW-28	14-Apr-06																																			
MW-28	20-Apr-07																																			
MW-28	19-May-08										0.39J																									
MW-28d	1-May-98																																			
MW-28d	17-Aug-98																																			
MW-28d	9-Sep-98																																			
MW-28d	7-Oct-98																																			
MW-28d	9-Dec-98																																	20		
MW-28d	12-Jan-99																																			
MW-28d (dup)	12-Jan-99																																			
MW-28d	9-Feb-99																																			
MW-28d	19-Apr-99																																			
MW-28d	3-Dec-99																																	94		
MW-28d	12-Apr-00																																	46		
MW-28d	18-Apr-01																																			
MW-28d	12-Apr-02																																	36		
MW-28d	17-Apr-03																																			
MW-28d	26-Apr-04																																	28.3		
MW-28d	22-Apr-05																																			
MW-28d	14-Apr-06																																			
MW-28d	20-Apr-07																																			
MW-28d	19-May-08										0.45J																									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-29d	4-May-98																																			
MW-29d	17-Aug-98																																			
MW-29d	4-May-98																																			
MW-29d	17-Aug-98																																			
MW-29d	9-Sep-98																																			
MW-29d (dup)	9-Sep-98																																			
MW-29d	7-Oct-98																																			
MW-29d	9-Dec-98																																	37		
MW-29d	12-Jan-99																																			
MW-29d	9-Feb-99																																			
MW-29d	19-Apr-99																																			
MW-29d	3-Dec-99																																			
MW-29d	12-Apr-00																																			
MW-29d	19-Dec-00																																			
MW-29d	18-Apr-01																																			
MW-29d	4-Dec-01																																			
MW-29d	11-Apr-02																																			
MW-29d	6-Nov-02																																			
MW-29d	18-Apr-03																																			
MW-29d	5-Nov-03																																			
MW-29d	26-Apr-04																																			
MW-29d	19-Nov-04																																			
MW-29d	21-Apr-05																																			
MW-29d	11-Nov-05																																			
MW-29d	14-Apr-06																																			
MW-29d	10-Nov-06																																			
MW-29d	20-Apr-07																																	23		
MW-29d	9-Nov-07																																			
MW-29d	19-May-08										0.13J																							1.44J		
MW-29d	7-Nov-08																							0.37J												

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-30	4-May-98																																			
MW-30	17-Aug-98																																			
MW-30	9-Sep-98																																			
MW-30	7-Oct-98																																			
MW-30	7-Dec-98																																			
MW-30	12-Jan-99																																			
MW-30	9-Feb-99																																			
MW-30	19-Apr-99																																			
MW-30	3-Dec-99																																			
MW-30	12-Apr-00																																			
MW-30	19-Dec-00																																			
MW-30	18-Apr-01																																			
MW-30	4-Dec-01																																			
MW-30	11-Apr-02																																			
MW-30	6-Nov-02																																			
MW-30	17-Apr-03																																			
MW-30	5-Nov-03																																			
MW-30	28-Apr-04																																			
MW-30	19-Nov-04																																	27.7		
MW-30	21-Apr-05																																			
MW-30	11-Nov-05																																			
MW-30	14-Apr-06																																			
MW-30	10-Nov-06																																			
MW-30	20-Apr-07																																			
MW-30	9-Nov-07																																			
MW-30	19-May-08										0.55J																									
MW-30	7-Nov-08										0.45J													0.21J												

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-31	1-May-98																																			
MW-31	17-Aug-98																																			
MW-31	9-Sep-98																																			
MW-31	7-Oct-98																																			
MW-31	8-Dec-98																																			
MW-31	11-Jan-99																																			
MW-31	8-Feb-99																																			
MW-31	19-Apr-99																																			
MW-31	3-Dec-99																																			
MW-31	13-Apr-00										13																									
MW-31	19-Dec-00										25																									
MW-31	17-Apr-01										21																									
MW-31	6-Dec-01										54																									
MW-31	11-Apr-02										37																									
MW-31	6-Nov-02										43																									
MW-31	18-Apr-03										32																									
MW-31	5-Nov-03										48																									
MW-31	28-Apr-04										32.5																									
MW-31	18-Nov-04										26.5																									
MW-31	21-Apr-05										27.2																									
MW-31	11-Nov-05										38.2																									
MW-31	14-Apr-06										36.6																									
MW-31	9-Nov-06										26.2																									
MW-31	20-Apr-07										23.4																									
MW-31	9-Nov-07										9.9																									
MW-31	19-May-08										14.9																									
MW-31	6-Nov-08										10.1													0.15J												

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-31d	1-May-98																																			
MW-31d	17-Aug-98																																			
MW-31d	9-Sep-98																																			
MW-31d	7-Oct-98																																			
MW-31d	8-Dec-98																																	10		
MW-31d	11-Jan-99																																			
MW-31d	8-Feb-99																																			
MW-31d	19-Apr-99																																	10		
MW-31d	3-Dec-99																																	41		
MW-31d	13-Apr-00																																			
MW-31d	19-Dec-00																																			
MW-31d	18-Apr-01										7																									
MW-31d	6-Dec-01										14																									
MW-31d	11-Apr-02										23																									
MW-31d	6-Nov-02										31																									
MW-31d	18-Apr-03										26																									
MW-31d	5-Nov-03										34																									
MW-31d	28-Apr-04										38.3																									
MW-31d	19-Nov-04										23.8																									
MW-31d	21-Apr-05										31.9																									
MW-31d	11-Nov-05										34																									
MW-31d	14-Apr-06										33.1																									
MW-31d	9-Nov-06										37.7																									
MW-31d	20-Apr-07										37.5																							23		
MW-31d	9-Nov-07										31.5																									
MW-31d	19-May-08										36.6																									
MW-31d	6-Nov-08										33																									

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-32	1-May-98																																			
MW-32	18-Aug-98																																			
MW-32	9-Sep-98																																			
MW-32	6-Oct-98																																			
MW-32	7-Dec-98																																			
MW-32	11-Jan-99																																			
MW-32	8-Feb-99																																			
MW-32	19-Apr-99																																			
MW-32	3-Dec-99																																			
MW-32	13-Apr-00																																			
MW-32	19-Dec-00																																			
MW-32	17-Apr-01																																			
MW-32	4-Dec-01																																			
MW-32	11-Apr-02																																			
MW-32	6-Nov-02																																			
MW-32	18-Apr-03																																			
MW-32	4-Nov-03																																	11		
MW-32	28-Apr-04																																			
MW-32	18-Nov-04																																			
MW-32	21-Apr-05																																			
MW-32	11-Nov-05																																			
MW-32	14-Apr-06																																			
MW-32	9-Nov-06																																			
MW-32	20-Apr-07																																			
MW-32	9-Nov-07																																			
MW-32	19-May-08																																			
MW-32	6-Nov-08																							0.47J												

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
TB-1a	1-May-98							6.9							5.3						6.9																
TB-1a	18-Aug-98							9.8	**7.6**	20					39									**22**			**7.5**	23									
TB-1a	9-Sep-98							11	**7.9**	21					40									**22**			**7.7**	20									
TB-1a	7-Oct-98							11	**7.1**	17					35									**16**			**8.2**	13									
TB-1a (dup)	7-Oct-98							11	**7.2**	17					33									**16**			**8.3**	17									
TB-1a	9-Dec-98							8.2		14					23												**5.3**	11									
TB-1a	11-Jan-99							11	**5.0**	16					21												**6.0**	6									
TB-1a	8-Feb-99							10		15					18												**7.0**	8									
TB-1a	19-Apr-99							10		10					14												**5.0**	5									
TB-1a	3-Dec-99							10		11					19												**6.0**	9									
TB-1a	13-Apr-00							8	**5.0**	11					22												**7.0**	11									
TB-1a	20-Dec-00														13																						
TB-1a	17-Apr-01														11																						
TB-1a	3-Dec-01														7																						
TB-1a	12-Apr-02														8																						
TB-1a	5-Nov-02														9																						
TB-1a	17-Apr-03								**6.0**						30												**7.0**										
TB-1a	4-Nov-03										8				8																						
TB-1a	14-Apr-04										20.4																										
TB-1a	18-Nov-04										17.3																										
TB-1a	21-Apr-05										18.8																										
TB-1a	11-Nov-05										24.3																										
TB-1a	14-Apr-06										18.6																										
TB-1a	9-Nov-06										25.5																										
TB-1a	19-Apr-07										22.5																										
TB-1a	9-Nov-07										21.8																										
TB-1a	20-May-08			0.66J							11.5				0.21J									0.31J			0.17J										
TB-1a	11-Nov-08			0.54J							11.6				0.33J									1.1			0.16J										
TB-1a deep	8-Jun-01																																				
TB-1a deep	6-Dec-01																																				
TB-1a deep	11-Apr-02																																				
TB-1a deep	6-Nov-02																																				
TB-1a deep	18-Apr-03										8																										
TB-1a deep	4-Nov-03																																	19			
TB-1a deep	28-Apr-04										22																										
TB-1a deep	18-Nov-04										17.9																										
TB-1a deep	21-Apr-05										25.6																										
TB-1a deep	11-Nov-05										30.6																										
TB-1a deep	14-Apr-06										29.1																										
TB-1a deep	10-Nov-06										35.6																										
TB-1a deep	20-Apr-07										32.4																										
TB-1a deep	9-Nov-07										26.2																										
TB-1a deep	19-May-08		0.77J								25.2													0.72J													
TB-1a deep	7-Nov-08										32.5													0.42J													

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-33	6-Aug-98																																			
MW-33	7-Dec-98																																			
MW-33	26-Apr-99																																			
MW-33	2-Dec-99																																			
MW-33	13-Apr-00																																			
MW-33	18-Apr-01																																			
MW-33	9-Apr-02																																			
MW-33	16-Apr-03																																			
MW-33	21-Apr-04																																			
MW-33	22-Apr-05																																			
MW-33	14-Apr-06																																			
MW-33	20-Apr-07																																			
MW-33	15-May-08																																			
MW-34	6-Aug-98																																			
MW-34	7-Dec-98																																			
MW-34	26-Apr-99																																			
MW-34	2-Dec-99																																			
MW-34	13-Apr-00																																			
MW-34	18-Apr-01																																			
MW-34	9-Apr-02																																			
MW-34	16-Apr-03																																			
MW-34	21-Apr-04																																			
MW-34	22-Apr-05																																			
MW-34	14-Apr-06											6.9			12.7																					
MW-34	20-Apr-07											6.2			13.8																					
MW-34	19-May-08		0.56J					0.13J	**3.07**	1.74J	0.45J	9.75	0.95J		15.3		0.23J					0.56J		**10.7**			**2.14**	0.16J		1.72J						
MW-34d	6-Aug-98																																	7.3		
MW-34d (dup)	6-Aug-98																																			
MW-34d	7-Dec-98																																			
MW-34d	26-Apr-99																																			
MW-34d	2-Dec-99																																			
MW-34d	13-Apr-00																																			
MW-34d	18-Apr-01																																			
MW-34d	9-Apr-02														5																					
MW-34d	16-Apr-03														11																					
MW-34d	21-Apr-04														6.8																					
MW-34d	22-Apr-05														5.7																					
MW-34d	14-Apr-06																																			
MW-34d	20-Apr-07														6.9																			35		
MW-34d	19-May-08								0.38J		0.21J	1.07J			1.64J							0.19J		0.2J			0.32J			0.36J						

Table 3b
Detected Constituents - Volatile and Semi-Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chlorobenzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	p-Dichlorobenzene	o-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	MEK (2-Butanone)	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC2L		**700**	**1**	**0.56**	**700**	**50**	**0.38**	**200**	**2.8**	**2800**	**70**	**70**	**1.4**	**24**	**70**	**0.51**	**7**	**5000**	**700**	**NE**	**1000**	**2100**	**100**	**4.6**	**550**	**2.6**	**0.7**	**530**	**0.015**	**1400**	**0.0004**	**100**	**4200**	**NE**	**3.5**	**0.005**
SWSL		**100**	**1**	**1**	**100**	**3**	**1**	**1**	**1**	**10**	**5**	**5**	**1**	**5**	**5**	**1.00**	**5**	**10**	**10**	**10**	**1**	**1**	**1**	**1**	**1**	**1.0**	**1**	**5**	**1**	**5**	**1**	**5**	**100**	**15**	**10**	**1**
MW-35	6-Aug-98																																			
MW-35	7-Dec-98																																			
MW-35	26-Apr-99																																			
MW-35	2-Dec-99																																			
MW-35	13-Apr-00																																			
MW-35	18-Apr-01																																			
MW-35	9-Apr-02																																			
MW-35	16-Apr-03																																			
MW-35	21-Apr-04																																			
MW-35	22-Apr-05																																			
MW-35	14-Apr-06																																			
MW-35	20-Apr-07																																			
MW-35	19-May-08										0.17J																0.13J				0.55J					
MW-36	4-Dec-08		0.81J						**3.4**	0.77J	0.14J	7.6	**1.46**		23.5		0.40J		0.906J			0.28J		0.77J			**2.00**		0.84J	2.25J						
MW-36d	4-Dec-08		0.37J	0.24J					1.5		1.05J	3.18J	0.28J		10.9						0.10J			**9.11**			**1.95**			1.78J						

Notes:
All units are in micrograms per liter (parts per billion).
- Concentration exceeds N.C. Groundwater Standards (2L)
- Indicates results below detection limits
* - groundwater protection standard
NE - standard not established
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit
** - New background well; NS - Not Sampled; dup - duplicate sample

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	4,4'-DDT	Dieldrin	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.2**	**0.1**	**0.0022**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.075**	**0.1**	**0.1**	**1**
MW-11	18-Nov-04									
MW-11	21-Apr-05									
MW-11	11-Nov-05									
MW-11	14-Apr-06									
MW-11	10-Nov-06									
MW-11	20-Apr-07									
MW-11	8-Nov-07									
MW-11	15-May-08									
MW-11d	18-Nov-04									
MW-11d	21-Apr-05									
MW-11d	11-Nov-05									
MW-11d	14-Apr-06									
MW-11d	10-Nov-06									
MW-11d	20-Apr-07									
MW-11d	8-Nov-07									
MW-11d	15-May-08					0.0297J		0.0096J**		
MW-5	18-Nov-04		**0.384**	**0.152**						
MW-5	21-Apr-05		**0.405**	**0.933**	0.098					
MW-5	11-Nov-05									
MW-5	14-Apr-06									
MW-5	9-Nov-06									
MW-5	19-Apr-07									
MW-5	8-Nov-07									
MW-5R	21-May-08					0.0609J		0.0752J**		
MW-6	18-Nov-04	**0.235**		**0.706**			**0.281**		0.412	
MW-6	21-Apr-05	**0.182**		**0.48**						
MW-6	11-Nov-05		**0.31**		0.053					1.72
MW-6	14-Apr-06									
MW-6	9-Nov-06									
MW-6	19-Apr-07									
MW-6	8-Nov-07		**0.062**				**0.094**			
MW-6	20-May-08		0.0233J			0.0312J**				
MW-6d	18-Nov-04									
MW-6d	21-Apr-05									
MW-6d	11-Nov-05									
MW-6d	11-Apr-06									
MW-6d	9-Nov-06									
MW-6d	20-Apr-07									
MW-6d	8-Nov-07									
MW-6d	20-May-08									
MW-7	18-Nov-04									
MW-7	21-Apr-05									1.21
MW-7	11-Nov-05									
MW-7	14-Apr-06									
MW-7	9-Nov-06									
MW-7	20-Apr-07									
MW-7	8-Nov-07									
MW-7	15-May-08							0.0929J**		

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	4,4'-DDT	Dieldrin	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.2**	**0.1**	**0.0022**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.075**	**0.1**	**0.1**	**1**
MW-8	18-Nov-04									
MW-8	21-Apr-05	**0.132**								
MW-8	11-Nov-05									
MW-8	14-Apr-06									
MW-8	9-Nov-06									
MW-8	20-Apr-07									
MW-8	8-Nov-07									
MW-8	20-May-08									
MW-8d	18-Nov-04									
MW-8d	21-Apr-05									
MW-8d	11-Nov-05									
MW-8d	14-Apr-06									
MW-8d	10-Nov-06									
MW-8d	20-Apr-07									
MW-8d	8-Nov-07									
MW-8d	15-May-08							0.0254J**		
MW-9	18-Nov-04			**0.138**	0.051					1.8
MW-9	21-Apr-05			**0.896**	**0.622**					
MW-9	11-Nov-05									1.4
MW-9	14-Apr-06				0.143					
MW-9	9-Nov-06				**0.786**					
MW-9	19-Apr-07									
MW-9	8-Nov-07			**0.06**						
MW-9	20-May-08			0.0132J				0.0368J**		
MW-9 (dup)	20-May-08									
MW-10	18-Nov-04									
MW-10	21-Apr-05									
MW-10	11-Nov-05									
MW-10	14-Apr-06									
MW-10	9-Nov-06									
MW-10	19-Apr-07									
MW-10	8-Nov-07									
MW-10	20-May-08									
MW-10d	18-Nov-04									
MW-10d	21-Apr-05									
MW-10d	11-Nov-05									1.72
MW-10d	14-Apr-06									
MW-10d	10-Nov-06									
MW-10d	20-Apr-07									
MW-10d	8-Nov-07									
MW-10d	20-May-08							0.0234J**		
MW-22	19-Nov-04									
MW-22	22-Apr-06									
MW-22	11-Nov-05									
MW-22	14-Apr-07									
MW-22	9-Nov-06									
MW-22	20-Apr-07									
MW-22	8-Nov-07									
MW-22	15-May-08							0.124		
MW-23	19-Nov-04									
MW-23	21-Apr-05									
MW-23	11-Nov-05									
MW-23	14-Apr-06									
MW-23	9-Nov-06									
MW-23	20 ap 07									
MW-23	8-Nov-07									
MW-23	15-May-08									
MW-23d	19-Nov-04									
MW-23d	21-Apr-05									
MW-23d	11-Nov-05									
MW-23d	14-Apr-06									
MW-23d	9-Nov-06									
MW-23d	20-Apr-07									
MW-23d	8-Nov-07									
MW-23d	15-May-08							0.0256J**		

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	4,4'-DDT	Dieldrin	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.2**	**0.1**	**0.0022**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.075**	**0.1**	**0.1**	**1**
MW-24	18-Nov-04									
MW-24	21-Apr-05									
MW-24	11-Nov-05									
MW-24	14-Apr-06									
MW-24	9-Nov-06									
MW-24	19-Apr-07									
MW-24	8-Nov-07									
MW-24	20-May-08							0.017J**		
MW-28	22-Apr-05									
MW-28	14-Apr-06									
MW-28	20-Apr-07									
MW-28	19-May-08			0.0209J				0.0412J**		
MW-28d	22-Apr-05									
MW-28d	14-Apr-06									
MW-28d	20-Apr-07									
MW-28d	19-May-08							0.0308J**		
MW-29d	19-Nov-04									
MW-29d	21-Apr-05									
MW-29d	11-Nov-05									
MW-29d	14-Apr-06									
MW-29d	10-Nov-06									
MW-29d	20-Apr-07									
MW-29d	9-Nov-07									
MW-29d	19-May-08			0.0309J				0.0464J**		
MW-30	19-Nov-04									
MW-30	21-Apr-05									
MW-30	11-Nov-05									
MW-30	14-Apr-06									
MW-30	10-Nov-06									
MW-30	20-Apr-07									
MW-30	9-Nov-07									
MW-30	19-May-08			**0.0632**				0.155		
MW-31	18-Nov-04									
MW-31	21-Apr-05									
MW-31	11-Nov-05									
MW-31	14-Apr-06									
MW-31	9-Nov-06									
MW-31	20-Apr-07									
MW-31	9-Nov-07									
MW-31	19-May-08			0.0111J						
MW-31d	19-Nov-04									
MW-31d	21-Apr-05									
MW-31d	11-Nov-05									
MW-31d	14-Apr-06									
MW-31d	9-Nov-06									
MW-31d	20-Apr-07									
MW-31d	9-Nov-07									
MW-31d	19-May-08							0.0375J**		
MW-32	18-Nov-04									
MW-32	21-Apr-05									
MW-32	11-Nov-05									
MW-32	14-Apr-06									
MW-32	9-Nov-06									
MW-32	20-Apr-07									
MW-32	9-Nov-07									
MW-32	19-May-08							0.0492J**		
TB-1a	18-Nov-04									
TB-1a	21-Apr-05									
TB-1a	11-Nov-05									
TB-1a	14-Apr-06									
TB-1a	9-Nov-06									
TB-1a	19-Apr-07									
TB-1a	9-Nov-07									
TB-1a	20-May-08	0.0183J						0.0828J**		

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	4,4'-DDT	Dieldrin	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.2**	**0.1**	**0.0022**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.075**	**0.1**	**0.1**	**1**
TB-1a deep	11-Nov-05									
TB-1a deep	14-Apr-06									
TB-1a deep	10-Nov-06									
TB-1a deep	20-Apr-07									
TB-1a deep	9-Nov-07									
TB-1a deep	19-May-08							0.0595J**		
MW-33	22-Apr-05									
MW-33	14-Apr-06									
MW-33	20-Apr-07									
MW-33	15-May-08			0.00175J				0.0318J**		
MW-34	22-Apr-05									
MW-34	14-Apr-06									
MW-34	20-Apr-07									
MW-34	19-May-08									
MW-34d	22-Apr-05									
MW-34d	14-Apr-06									
MW-34d	20-Apr-07									
MW-34d	19-May-08							0.0145J**		
MW-35	22-Apr-05									
MW-35	14-Apr-06									
MW-35	20-Apr-07									
MW-35	19-May-08									
MW-36	4-Dec-08		**0.059**	0.0102J	0.162					
MW-36d	4-Dec-08				0.0366J					

Notes:
All units are in micrograms per liter (parts per billion).
- Concentration exceeds N.C. Groundwater Standards (2L)
- Indicates results below detection limits
* - groundwater protection standard
NE - standard not established
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limits (SWSL)
** - Endosulfan I was also detected in the background well MW-11d and batch and equipment blanks at similar concentrations.

Table 3d
Detected Surface Water Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Silver	Vanadium	Zinc
NC2B		**50**	**NS**	**6.4**	**2**	**50**	**NS**	**7***	**25**	**88**	**0.06**	**NS**	**50***
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**50**	**10**	**25**	**10**
SW-2	13-Jun-95												
SW-2	31-Oct-95				**2**								
SW-2	28-Nov-96		25				2						21
SW-2	21-Apr-97		29										
SW-2	5-Nov-97												
SW-2	11-May-98												
SW-2	24-Nov-98												
SW-2	14-Apr-99												
SW-2	9-Apr-02												
SW-2	16-Apr-03												
SW-2	29-Oct-03												
SW-2	8-Apr-04												
SW-2	18-Nov-04				1								
SW-2	21-Apr-05												
SW-2	11-Nov-05												
SW-2	13-Apr-06												
SW-2	9-Nov-06												
SW-2	20-Apr-07												
SW-2	7-Nov-07												
SW-2	21-May-08		28.9J			1.53J		5.97J					5.81J
SW-2	7-Nov-08		33.5JB	3.10B		4.28JB		7.72JB	3.62JB		8.20JB	15.1JB	4.51J
SW-3	13-Jun-95												
SW-3	31-Oct-95												
SW-3	27-Nov-96		33				2						32
SW-3	21-Apr-97		19										
SW-3	1-Nov-97												**56**
SW-3	11-May-98												
SW-3	24-Nov-98												
SW-3	14-Apr-99												
SW-3	30-Nov-99												
SW-3	12-Apr-00												
SW-3	15-Dec-00												
SW-3	16-Apr-01												
SW-3	29-Nov-01												
SW-3	9-Apr-02												
SW-3	16-Apr-03												
SW-3	29-Oct-03					11.1							
SW-3	8-Apr-04												
SW-3	18-Nov-04												
SW-3	21-Apr-05												
SW-3	11-Nov-05												
SW-3	13-Apr-06												
SW-3	9-Nov-06												
SW-3	20-Apr-07												
SW-3	7-Nov-07				1								13
SW-3	19-May-08		28.5J			3.21J		6.36J			4.09J		
SW-3	6-Nov-08		40.8JB			3.41JB		5.94JB	8.95JB		9.04JB	6.43JB	4.79J
SW-7	7-Nov-08		50.8JB			16.0B	10.7	**20.3B**	9.63JB		9.62JB	19.8JB	6.33J
SW-8	7-Nov-08		26.7JB			3.14JB		7.10JB			8.56JB	7.92JB	

Notes:
All units are in micrograms per liter (parts per billion).
- Concentration exceeds N.C. Surface Water Standards for Class C Water
- Indicates results below detection limits
* - action level
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit
** - New background well; NS - Not Sampled; dup - duplicate sample

Table 3e
Detected Surface Water Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon Disulfide	Chloroform	Chloromethane	Dibromochloromethane	Cis 1,2-Dichloroethene	1,1-Dichloroethane	Methylene Chloride	Tetrachloroethene	Toluene	Trichlorofluoromethane
NC2B		**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**10.8**	**11**	**NS**
SWSL		**100**	**1**	**3**	**100**	**1000**	**5**	**1**	**1**	**5**	**5**	**1**	**1**	**1**	**1**
SW-2	18-Nov-04														
SW-2	21-Apr-05														
SW-2	11-Nov-05														
SW-2	14-Apr-06														
SW-2	9-Nov-06														
SW-2	19-Apr-07														
SW-2	9-Nov-07						0.2J	0.3J							
SW-2	21-May-08						0.13J								
SW-2	7-Nov-08						0.13J					0.21J			
SW-3	18-Nov-04														
SW-3	21-Apr-05														
SW-3	11-Nov-05														
SW-3	14-Apr-06														
SW-3	9-Nov-06														
SW-3	19-Apr-07														
SW-3	9-Nov-07	1.3J			0.9J			0.3J							
SW-3	19-May-08														
SW-3	6-Nov-08											0.25J			
SW-7	7-Nov-08									0.20J	0.72J				
SW-8	7-Nov-08										0.12J	0.20J			

Notes:
All units are in micrograms per liter (parts per billion).
- Concentration exceeds N.C. Surface Water Standards for Class C Waters
- Indicates results below detection limits
* - action level
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)
B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit

Table 4
Statistically Significant Constituents Over Background
North Wake Unlined Landfill

WELL	NOVEMBER 2008 PARAMETERS STATISTICALLY OVER BACKGROUND	NOVEMBER 2008 PARAMETERS EXCEEDING NC 2L STANDARD
MW-11	Designated Shallow Background Well	None
MW-11d	Designated Deep Background Well	Vanadium*#
MW-5R	p-Dichlorobenzene	p-Dichlorobenzene
MW-6	Cobalt, Benzene, Methylene Chloride	Cobalt*, Thallium*, Vanadium*# Benzene, p-Dichlorobenzene, Vinyl Chloride
MW-6d	1,1-Dichloroethane	Beryllium*, Thallium*, Vanadium*# Tetrachloroethene
MW-7	None	Beryllium* Benzene, Vinyl Chloride
MW-8	Methylene Chloride	None
MW-8d	None	Vanadium*#
MW-9	Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, Vinyl Chloride	Thallium*, Vanadium*# Benzene, p-Dichlorobenzene, Vinyl Chloride
MW-10	Mercury, Tetrachloroethene Benzene, Trichloroethene, 1,1-Dichloroethane Cis-1,2-Dichloroethene, Methylene Chloride	Beryllium*, Lead, Mercury, Vanadium*# Benzene, Trichloroethene, Tetrachloroethene, Vinyl Chloride
MW-10d	None	Beryllium*, Chromium, Lead, Vanadium*#
MW-22	Cadmium, Cobalt	Cadmium, Lead, Vanadium*#
MW-23	None	Vanadium*#
MW-23d	None	Beryllium*, Vanadium*#
MW-24	Not Sampled	Not Sampled
MW-27	Not Sampled	Not Sampled
MW-28	Not Sampled	Not Sampled
MW-28d	Not Sampled	Not Sampled
MW-29d	None	Beryllium*, Vanadium*#
MW-30	Chromium	Vanadium*
MW-31	Chromium, Chloroform	Lead, Vanadium*
MW-31d	Chromium, Chloroform	Beryllium*, Vanadium*
MW-32	None	Beryllium*, Vanadium*#
TB-1a	Cadmium, Chloroform	Cadmium, Chromium, Lead, Vanadium*
TB-1a deep	None	Vanadium*#
MW-33	Not Sampled	Not Sampled
MW-34	Not Sampled	Not Sampled
MW-34d	Not Sampled	Not Sampled
MW-35	Not Sampled	Not Sampled
MW-36	None	Chromium, Vanadium* Trichloroethene, p-Dichlorobenzene, Tetrachloroethene
MW-36d	None	Chromium, Thallium*, Vanadium* Methylene Chloride, Tetrachloroethene, Beta-BHC*

* - Groundwater Protection Standard
\# - "J" value

Table 5
Geochemical Data
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen (mg/l)	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-11	8-Dec-98	156.2	5.57	6.03						3.5	0.6	2.1	21	40				0.17	50	0.02						0.02
MW-11	18-Dec-00	742	5.69																							
MW-11	18-Apr-01		6.80																							
MW-11	27-Nov-01		5.48																							
MW-11	5-Apr-02		6.19																							
MW-11	5-Nov-02		6.14																							
MW-11	15-Apr-03		6.36																							
MW-11	29-Oct-03		6.47																							
MW-11	21-Apr-04		5.31																							
MW-11	15-May-08	135.8	5.53	6.71																						
MW-11	10-Nov-08	167.0	5.74	6.71	<2	6	<7.2	<20	<20	3.67	0.794	1.42	34		<0.3				26	<0.2	<1	<1	<25	<1	<10	
MW-11d	8-Dec-98	123.0	6.03	4.68						3.0	0.58	0.64	14	60				0.02	30							
MW-11d	18-Dec-00	154	5.26																							
MW-11d	18-Apr-01		6.91																							
MW-11d	27-Nov-01		5.21																							
MW-11d	5-Apr-02		6.97																							
MW-11d	5-Nov-02		6.26																							
MW-11d	15-Apr-03		6.98																							
MW-11d	29-Oct-03		6.87																							
MW-11d	21-Apr-04		5.79																							
MW-11d	15-May-08	87.2	5.95	5.02																						

Table 5
Geochemical Data
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen (mg/l)	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-5	3-Dec-98		5.70							5.6																
MW-5	20-Dec-00	38	5.40				4500			13.4	0.07	2.7							141							
MW-5	16-Apr-01	85	5.20							8.5		8.8			6.8				141	1.07						1.07
MW-5	3-Dec-01	103	5.68				1600			5.2					1.7				79.2							
MW-5	12-Apr-02	43	5.54				2400			3.3					4.1				44	3.7						3.7
MW-5	5-Nov-02	65	5.72				1500			8.7	0.34	1.2			4.7				244							
MW-5	17-Apr-03	-138	6.08	0.79			6600			13		13.7			4.1				9							
MW-5	4-Nov-03	-142	5.60	0.14			3200			19		1474							2055	18.5						18.5
MW-5R	14-Apr-04	-35	6.30	1.92			4040			8.19		13.8			0.44		0.08		286							
MW-5R	21-May-08	95	6.02	0.14	<2	9	709	<100	<100	3.92	0.576	11.1	280		13.3		<0.01		264	<0.2	<1	<1	<25	<1	<10	1.1
MW-5R	10-Nov-08	113	6.07	0.31	<2	10	340	<20	<20	4.66	1.25	1.95	240		6.42				211	<0.2	<1	<1	<25	<1	<10	1.6
MW-6	3-Dec-98		5.71							6.8																
MW-6	19-Dec-00	156	5.54				669			9.12	0.05	5.9							57							
MW-6	16-Apr-01	97	5.05				450			7.5		7.7			0.66				47							
MW-6	3-Dec-01	136	5.88				470			6.4					0.34				30.8							
MW-6	12-Apr-02	174	5.47				800			7.3					0.46				35							
MW-6	5-Nov-02	73	5.58				1500			11	0.36	2.1			0.74				83							
MW-6	17-Apr-03	234	5.79	0.59			2400			12	0.48	10.4			0.47				9							
MW-6	4-Nov-03	41	4.80	0.25			640			110		8.5			1.2				185							
MW-6	14-Apr-04	316	5.76	1.70			1450			190		16.6			2.2				330							
MW-6	20-May-08	115	5.94	2.41	<4	78	2740	<400	<400	185	0.19J	24.4	474		12		<0.01		466	0.22	<1	<1	<25	<1	<10	1.1
MW-6	11-Nov-08	84	6.14	1.36	2	106	1190	<200	<200	231	<0.3	30.2	750		2.51J				541	0.59	<1	<1	<25	<1	<10	1.9
MW-8	3-Dec-98		5.75							7.3																
MW-8	20-Dec-00	66	5.42							6.84	0.09	5.9							22							
MW-8	16-Apr-01	54	5.61				17			3.2	0.23	1.3			0.89		0.04		32							
MW-8	3-Dec-01	111	6.40							3					0.61		0.01		39.6							
MW-8	12-Apr-02	51	6.00				42			3.5					0.81				31							
MW-8	5-Nov-02	44	6.05				11			3.4	0.42	0.7			1.1		0.06		29							
MW-8	17-Apr-03	171	6.30	1.70						4	0.33	2.3			1.1				13							
MW-8	4-Nov-03	127	5.15	1.68			22			3.9		0.7			1				44							
MW-8	14-Apr-04	235	5.86	1.58			371			3.82		2.2			0.91				52.8							
MW-8	20-May-08	63	5.83	1.42	<2	<5	631	<20	<20	5.85	0.158J	0.469J	59		5.46		<0.01		97	<0.2	<1	<1	<25	<1	<10	1.1
MW-8	10-Nov-08	55	5.84	0.26	<2	5	654	<20	<20	6.29	0.211J	0.603	60		<0.3				101	<0.2	<1	<1	<25	<1	<10	1.4

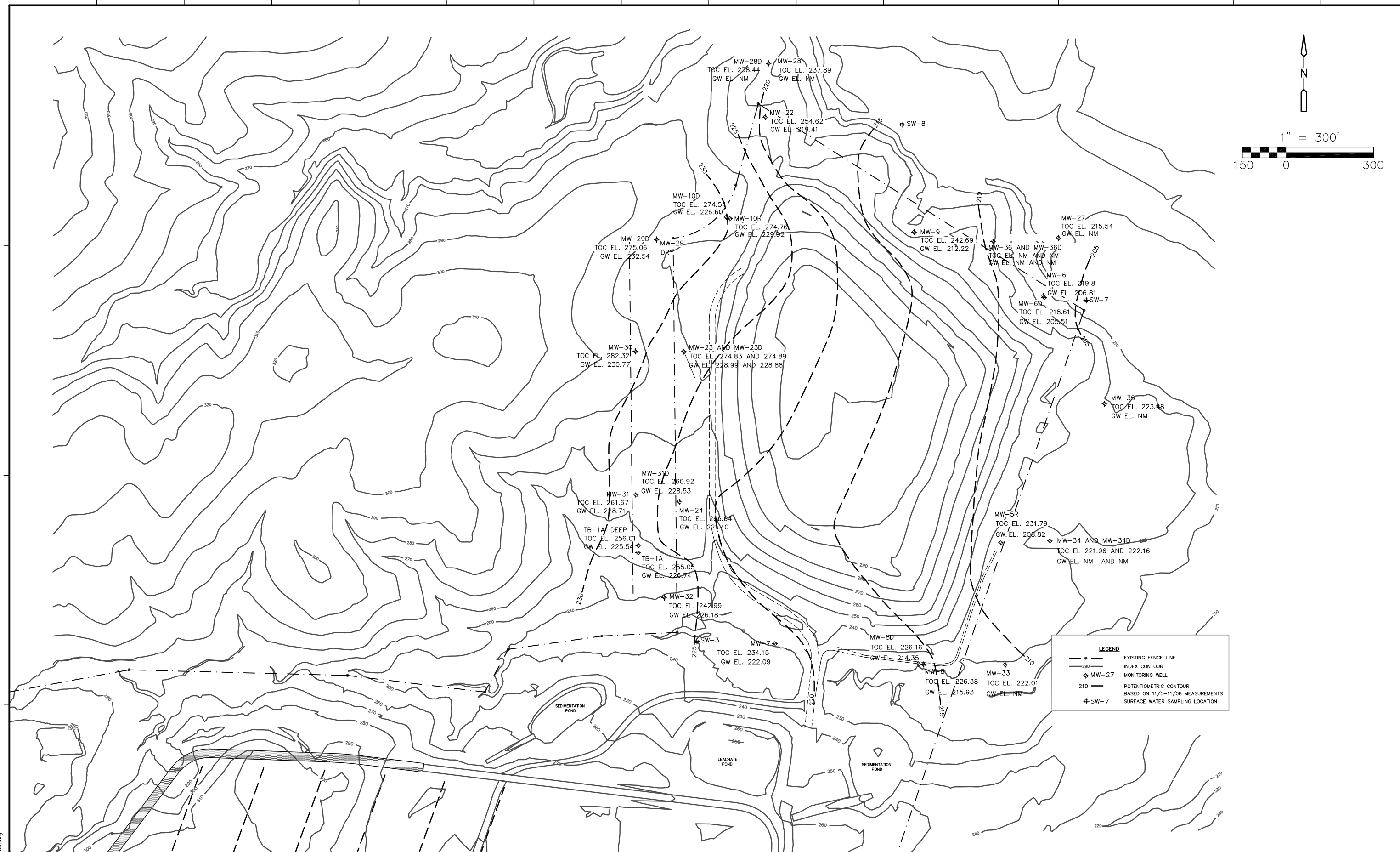
Table 5
Geochemical Data
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen (mg/l)	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
MW-9	3-Dec-98		6.27							15																
MW-9	20-Dec-00	102	4.79				3340			21.9	0.09	12.3							176							
MW-9	16-Apr-01	64	5.79				790			19	0.24	5.5			0.75				121	1.28						1.28
MW-9	3-Dec-01	21	6.41				2700			24					0.38				123	2.5						2.5
MW-9	12-Apr-02	77	6.11				1200			29					0.32				136	9.8						9.8
MW-9	5-Nov-02	39	6.16				470			24		5.7			0.66				236	1.67						1.67
MW-9	17-Apr-03	-106	6.39	0.25			1900			36		30.3			0.42				44	6.3						6.3
MW-9	4-Nov-03	-110	5.76	0.14			1800			53		14.2			0.46				312	1.48						1.48
MW-9	14-Apr-04	58	6.33	0.81			3500			92.5		13.3			0.39				299	ND						ND
MW-9	20-May-08	-97	6.28	1.39	7	10	2980	<400	<400	20.1	<0.3	3.12	254		0.58		<0.01		260	18.3	<1	<1	<25	<1	<10	18.3
MW-9	11-Nov-08	-37	6.18	2.45	7	27	1910	<200	<200	18.9	<0.3	3.36	263		<0.3				264	15.4	<1	<1	<25	<1	<10	
MW-10	3-Dec-98		5.85							6.8																
MW-10	20-Dec-00	76	5.27				372			10.6	1.5	3.7							26							
MW-10	17-Apr-01	81	5.24				320			5.4	2.2	5.3			1.2				101							
MW-10	3-Dec-01	146	5.88							4.2	1.6				3				35.2							
MW-10	12-Apr-02	98	5.58				300			4.9					1.7				35							
MW-10	5-Nov-02	74	5.54				770			5.4	2	1.8			2.9		0.03		216							
MW-10	17-Apr-03	240	5.11	0.44			2400			5	1.4	9.2			0.82				13							
MW-10	4-Nov-03	90	4.90	0.16						6.6	1	1.7			0.66				145							
MW-10	14-Apr-04	349	5.83	0.52			341			7.3	1.3	7.8			0.78				123							
MW-10	20-May-08	-14.6	5.61	0.55	3	35	1950	<200	<200	3.77	0.162J	1.12	42		0.62		0.01		229	0.48	<1	<1	<25	<1	<10	0.48
MW-10	11-Nov-08	130.0	5.50	2.76	8	30	5890	<200	<200	3.71	<0.3	1.31	96		<0.3				370	1.79	1.4	<1	<25	<1	<10	
MW-24	8-Dec-98	145.9	5.75	1.02						4.2		2.5	66	140		2		0.07	260	0.78						0.78
MW-24	20-Dec-00	67	5.61				4410			8.25	0.08	2.5							101							
MW-24	16-Apr-01	93	5.20				2500			4.2	0.28	5			0.59				121	1.18						1.18
MW-24	3-Dec-01	103	5.83				2100			2.9									52.8	0.3						0.3
MW-24	12-Apr-02	17	5.59				1800			1.5									92	0.6						0.6
MW-24	5-Nov-02	62	5.76				2200			0.56		1.6			0.48		0.01		171	0.21						0.21
MW-24	17-Apr-03	10	5.79	0.50			88			3.6	0.33	4.4			0.35				33							
MW-24	4-Nov-03	-20	4.92	0.42			17			2.9		1.7			0.46				141							
MW-24	14-Apr-04	178	6.29	2.09			139			2.94		6.2			0.42				88							
MW-24	20-May-08	101	5.84	4.56	4	<5	<7.2	<20	<20	3.6	0.273J	0.421J	39		<0.3		0.03		75	2.72	<1	<1	<25	<1	<10	2.72

Table 5
Geochemical Data
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen (mg/l)	BOD	COD	Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Chloride	Nitrate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Free Chlorine	Carbon Dioxide	Ferrous Iron	Acetic Acid	Butyric Acid	Lactic Acid	Propionic Acid	Pyruvic Acid	Dissolved Hydrogen (nM)
TB-1a	9-Dec-98	193.8	5.98	0.64						4.1		0.54	95	120		2		0.05	500	0.15						0.15
TB-1a	20-Dec-00	63	5.52				2470			6.6	0.09	3.3							62							
TB-1a	17-Apr-01	78	5.63				1500			5.1	0.29	2.4			0.58		0.1		99							
TB-1a	3-Dec-01	111	6.01							3.1									52.8							
TB-1a	12-Apr-02	42	5.70				990			1.6									84							
TB-1a	5-Nov-02	58	5.83				400			4.2		0.7			0.47				138							
TB-1a	17-Apr-03	163	5.82	0.54			17			6.1	0.79	8.5			0.82		0.03		4							
TB-1a	4-Nov-03	1	5.04	0.16						7.5		1.6			0.46				213							
TB-1a	14-Apr-04	257	5.36	0.94						8.47		4.8			0.58				101							
TB-1a	20-May-08	-102	5.94	2.22	<2	<5	<7.2	<20	<20	14.9	0.356	0.864	42		11.6		<0.01		48	0.24	<1	<1	<25	<1	0.9J	0.24
TB-1a	11-Nov-08	65	6.11	4.08	<2	50	5.1J	<20	<20	15.1	0.338	1.13	42		4.08				106	1.59	<1	<1	<25	<1	<10	

MW-11 & MW-11d are background wells for site.
All units are in milligrams per liter (parts per million), unless otherwise noted.
ND - Not Detected
-Blank Cells Indicate No Data Collected
-Field Tests Performed with HACH test kits
J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit (SWSL)



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. WEISPFENNING
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WAKE COUNTY
NORTH CAROLINA

NORTH WAKE UNLINED LANDFILL

POTENTIOMETRIC CONTOUR MAP

PROJECT NO. 6172-65822
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FIGURE
1

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