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).
- 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	March 15-18, 2011

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) MNA Sampling Results
☐ 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 — Facility Representative Name (Print)
Consultant — Title
(919) 787-5620 — (Area Code) Telephone Number

Signature — Date: 5/13/2011

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1851 GEOLOGIST MATHEW F. COLONE

5/13/2011

5400 Glenwood Ave, Suite 300, Raleigh, NC 27612
Facility Representative Address

F-0412
NC PE Firm License Number (if applicable effective May 1, 2009)

North Wake Unlined Landfill Facility Permit No. 92-09 Semi-Annual Sampling Report

(March 2011 Sampling Event)

Wake County

Report

May 2011

WAKE COUNTY
NORTH CAROLINA

CDM

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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)
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☐ Methane gas monitoring data
☒ Corrective action data (specify) MNA Sampling Results
☐ Other(specify)

Notification attached?

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☒ 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 — Facility Representative Name (Print)
Consultant — Title
(919) 787-5620 — (Area Code) Telephone Number

Signature — Date: 5/13/2011

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1851 GEOLOGIST MATHEW F. COLONE

5/13/2011

5400 Glenwood Ave, Suite 300, Raleigh, NC 27612
Facility Representative Address

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NC PE Firm License Number (if applicable effective May 1, 2009)

CDM

5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
tel: 919 787-5620
fax: 919 781-5730

May 13, 2011

Ms. Jaclynne Drummond
North Carolina Department of Environment and
Natural Resources
Division of Waste Management
Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 2760-1350

Subject: March 2011 Semi-Annual Monitoring Sampling Report
North Wake Unlined Landfill
Facility Permit # - 9209

Dear Ms. Drummond:

CDM, on behalf of Wake County, is submitting one copy of the March 2011 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 first semi-annual sampling event for 2011.

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-28, MW28d, MW-33, MW-34, MW-34d, and MW-35 are sampled annually during the spring event.

MW-5R was sampled in place of MW-5 and is approximately 50 feet downgradient of MW-5. MW-5R was installed in the spring of 2004 at the request of the Solid Waste Section. MW-27 was abandoned while MW-36 and MW-36d were being installed on November 24 and 25, 2008. MW-36 and MW- 36d are a nested pair of monitoring wells installed down-gradient of MW-9 and triangulated with MW-6 and MW-6d. These wells were installed in order to determine if contaminants had migrated beyond the facility boundary. SW-7 and SW-8 are surface water sampling locations on Abbot's Creek along the northern edge of the landfill that have been sampled since November 2008.

All groundwater samples were analyzed for Appendix II Volatile Organic Compounds (VOCs) plus dichlorodifluoromethane and Appendix I metals plus mercury. Select wells were also sampled for bis 2-

ethylhexyl phthalate, pesticides, and herbicides. In addition, samples from monitoring wells MW-5R, -6, -8, -9, -10, -11, and -36 were analyzed for natural attenuation parameters per the approved Corrective Action Plan. 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 from March 15-18, 2011. Groundwater samples were collected by use of a peristaltic pump or disposable, laboratory decontaminated 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 shown on **Figure 1**. The groundwater elevations and potentiometric contours were also used to estimate groundwater velocities at each well as presented in **Table 2**. After depth to groundwater was determined, three well volumes of water were removed from each well prior to sampling to provide 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 shown in **Table 1**.

Sampling Results

All groundwater and surface water samples were analyzed by ENCO Laboratories, Inc. in Cary, North Carolina. In accordance with Solid Waste Section (SWS) guidelines the analytical results were reported to the laboratory specific method detection limit (MDL) and are quantifiable at or below Solid Waste Section Limits (SWSLs). All monitoring wells and surface water locations for the Unlined Landfill had detections of analytes above the MDL with a majority of the detections below SWSLs. These detections were qualified as estimated or "J" flags.

The following list summarizes which analytes were detected above the SWSL at each sample location. Underlined analytes exceeded the North Carolina 2L Standard (2L), Groundwater Protection Standard, or the North Carolina Surface Water Standards for Class C Waters (2B).

No "J" value detections are listed. 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:	Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-11d (Deep Background)

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-5R

Metals:	None Detected
Volatile Organic Compounds:	p-Dichlorobenzene
SVOCs/Pesticides/Herbicides:	None Detected

MW-6

Metals:	Barium, Cobalt, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, Vinyl Chloride
SVOCs/Pesticides/Herbicides:	None Detected

MW-6d

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

MW-7

Metals:	Cadmium, Cobalt, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, Vinyl Chloride
SVOCs/Pesticides/Herbicides:	None Detected

MW-8

Metals:	None Detected
Volatile Organic Compounds:	cis-1,2-Dichloroethene
SVOCs/Pesticides/Herbicides:	Not Tested

MW-8d

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

MW-9

Metals:	Barium, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethane, Vinyl Chloride
SVOCs/Pesticides/Herbicides:	None Detected

MW-10

Metals:	Mercury, Zinc
Volatile Organic Compounds:	Benzene, p-Dichlorobenzene, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, Vinyl Chloride
SVOCs/Pesticides/Herbicides:	None Detected

MW-10d

Metals:	None Detected
Volatile Organic Compounds:	Methylene Chloride
SVOCs/Pesticides/Herbicides:	None Detected

MW-22

Metals:	Cadmium, Cobalt, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-23

Metals:	Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-23d

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-24

Metals:	Zinc
Volatile Organic Compounds:	Chloroform
SVOCs/Pesticides/Herbicides:	None Detected

MW-28

Metals:	Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-28d

Metals:	Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-29d

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-30

Metals:	Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-31

Metals:	Chromium, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-31d

Metals:	Zinc
Volatile Organic Compounds:	Chloroform
SVOCs/Pesticides/Herbicides:	None Detected

MW-32

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

TB-1a

Metals:	Copper, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

TB-1a deep

Metals:	Chromium, Zinc
Volatile Organic Compounds:	Chloroform
SVOCs/Pesticides/Herbicides:	Not Tested

MW-33

Metals:	Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-34

Metals:	Barium, Beryllium, Chromium, Copper, Lead, Vanadium, Zinc
Volatile Organic Compounds:	1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene
SVOCs/Pesticides/Herbicides:	Not Tested

MW-34d

Metals:	Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

MW-35

Metals:	Zinc
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

MW-36

Metals:	Chromium, Zinc
Volatile Organic Compounds:	p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene
SVOCs/Pesticides/Herbicides:	None Detected

MW-36d

Metals:	Chromium, Copper, Vanadium, Zinc
Volatile Organic Compounds:	1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene
SVOCs/Pesticides/Herbicides:	None Detected

SW-2

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

SW-3

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

SW-7

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

SW-8

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

Equipment Blank

Metals:	None Detected
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	None Detected

Trip Blank

Metals:	Not Tested
Volatile Organic Compounds:	None Detected
SVOCs/Pesticides/Herbicides:	Not Tested

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

Antimony:	MW-31d, TB-1A d
Cobalt:	MW-9, -10, -28, -30, -32, TB-1A, -33, -34, -35, -36, -36d
Thallium:	MW-6, -6d, -7, -9, -10, -31d, TB-1A d, -33, -36
Vanadium:	MW-6d, -7, -8, -8d, -11, -11d, -22, -23, -23d, -24, -28, -28d, -29d, -31, -31d, -32, TB-1A, TB-1A d, -34d, -35, -36

1,2-Dichloroethane:	MW-9
1,2-Dichloropropane:	MW-9
Vinyl Chloride:	MW-36

The equipment blank had "J" flag detections of selenium and acetone. No analytes were detected in the trip blank. The duplicate sample, Dup, was collected from MW-36d and had similar concentrations of all compounds found in MW-36d. A complete summary of all detected constituents, including detections above the MDL, is presented in **Table 3**. Complete laboratory results are provided at the end of this report in **Appendix A**.

Statistical Analysis

Statistical analysis was performed for all detected constituents in the groundwater samples. Data from the downgradient compliance wells, MW-11 and MW-11d, 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 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 March 2011 sampling event, the following constituents were found to be statistically significant: p-dichlorobenzene in MW-5R; cobalt, benzene, p-dichlorobenzene, and vinyl chloride in MW-6; cobalt and vinyl chloride in MW-7; cis-1,2-dichloroethene in MW-8; benzene, p-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride in MW-9; mercury, benzene, cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene in MW-10; cadmium and cobalt in MW-22; chloroform in MW-24; chromium in MW-30, MW-31, and MW-33; chloroform in MW-31d; chromium and chloroform in TB-1a deep; 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, and trichloroethene in MW-34; chromium, p-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, and trichloroethene in MW-36; and chromium, copper, vanadium, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, and trichloroethene in MW-36D.

Table 4 presents a summary of all parameters detected during the March 2011 sampling event that exceeded the 2L Standard, Groundwater Protection Standard, or were statistically significant.

Monitored Natural Attenuation Sampling

Additional groundwater samples were collected from MW-5R, -6, -8, -9, -10, -11, and -36 for evaluation of monitored natural attenuation as part of the corrective action program as required by Solid Waste

Section guidelines. These parameters include biological oxygen demand, chemical oxygen demand, 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, ORP and DO. Results are presented in **Table 5**. The laboratory data for the additional parameters is included in **Appendix A**.

BIOCHLOR, an Environmental Protection Agency approved screening model used to evaluate remediation by natural attenuation of dissolved solvents, was used to determine if biodegradation is occurring at these wells. Based on the screening results from the March 2011 data, there is adequate to strong evidence that anaerobic biodegradation is occurring in MW-6, MW-8, MW-9, and MW-10. BIOCHLOR screening results for each well are provided in **Appendix B**. MW-5R scored the lowest due to limited VOC detections. Scores for MW-9, -10, and -36 may have been higher, but dissolved hydrogen was not analyzed due to the depth of the water table at these locations.

As discussed in the approved Corrective Action Plan (March 2010), concentrations of some of the data from select wells indicates that environments are present which favor 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. As discussed in the approved CAP, the vacuum extraction system will be used in conjunction with an air sparging system to reduce VOCs in the bedrock and PWR between MW-9 and the MW-6 nested pair. This system is expected to be operational before the next sampling event in the fall.

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-5R, -6, -8, -9, -10, -11, and -36 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 not be collected during the fall 2011 sampling event. In addition, detected Appendix II constituents (SVOCs, pesticides, herbicides) will also not be collected during the next sampling event.

The County has evaluated the detections in MW-36 and MW-36d and proposed a corrective action to remediate groundwater in this area. The Selected Remedy of monitored natural attenuation paired with in situ remediation by air sparging was approved by the Solid Waste Section in December 2009. The pilot test was conducted throughout July and August 2010 near MW-6. The full-scale system is likely to be installed this summer.

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

Very truly yours,

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

cc: Elliot Cornell, WCSWM
Lee Squires, WCSWM

Table 1
Water Quality Parameters
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Water Quality Parameters						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	5.94	525	16.1	3	1.89	141.9	225.28	16.28	209.00
MW-6	5.89	1,380	15.5	3	2.48	25.3	219.80	12.42	207.38
MW-6d	5.76	176	17.5	11	1.43	66.8	218.61	12.86	205.75
MW-7	6.20	529	15.5	17	2.44	23.7	234.15	12.28	221.87
MW-8	5.49	171	15.7	4	1.28	208.4	226.38	11.23	215.15
MW-8d	5.78	167	16.9	33	2.88	143.9	226.16	12.51	213.65
MW-9	5.78	518	18.1	23	2.29	2.4	242.69	30.27	212.42
MW-10	5.29	254	16.8	9	3.18	119.7	274.76	44.38	230.38
MW-10d	5.76	170	16.3	3	5.49	118.6	274.54	47.59	226.95
MW-11	5.21	83	16.3	31	8.02	211.2	343.63	43.84	299.79
MW-11d	5.63	102	15.7	7	7.18	189.7	343.27	44.05	299.22
MW-22	5.58	125	16.2	19	5.34	181.4	254.62	35.23	219.39
MW-23	5.42	100	15.9	143	7.21	202.9	274.83	45.54	229.29
MW-23d	5.46	148	16.5	7	6.19	199.4	274.89	45.68	229.21
MW-24	5.36	86	16.5	52	7.48	214.2	266.64	45.43	221.21
MW-27	ABANDONED						ABANDONED		
MW-28	5.70	199	17.76	68	8.64	181.1	237.89	18.30	219.59
MW-28d	6.45	297	17.68	16	1.02	-6.6	238.44	18.26	220.18
MW-29d	5.52	124	16.1	21	6.89	176.4	275.06	42.14	232.92
MW-30	5.51	122	16.2	236	5.78	201.7	282.32	51.20	231.12
MW-31	5.38	142	16.9	86	6.11	221.7	261.67	33.01	228.66
MW-31d	5.70	159	16.9	82	3.94	214.4	260.92	32.43	228.49
MW-32	4.89	74	15.0	68	4.53	194.5	242.99	16.68	226.31
TB-1a	5.28	187	16.0	47	1.97	52.3	255.05	28.41	226.64
TB-1a deep	5.58	185	16.1	48	1.97	119.4	256.01	30.59	225.42
MW-33	6.10	128	14.16	72	2.29	158.2	222.01	12.36	209.65
MW-34	5.11	101	14.48	193	2.02	198.1	221.96	14.39	207.57
MW-34d	5.53	200	14.98	2	4.43	199.6	222.16	14.73	207.43
MW-35	4.49	29	14.79	48	3.01	237.2	223.48	17.54	205.94
MW-36	5.45	178	15.8	63	1.92	130.7	237.40	26.81	210.59
MW-36d	5.91	304	15.8	11	2.36	99.4	237.68	27.03	210.65
Surface Water I.D.									
SW-2	7.06	136	16.0	35	13.31	90.6			
SW-3	6.15	131	15.6	28	14.01	217.5			
SW-7	6.70	117	11.3	17	12.71	130.2			
SW-8	6.82	119	11.2	22	12.01	131.5			

NOTES:
(1) AMSL - Above Mean Sea Level
(2) TOC - Top of Casing
(3) SW - Surface Water
(4) MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
(5) MW-36/36d installed November 2008
(6) Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event
(7) Turbidity readings were recorded at the time samples were collected

Table 2
Summary of Calculated Groundwater Flow Velocities
March 2011 Semi-Annual Sampling Event
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
MW-36	17.56 6.19E-03	0.30										
MW-36D	0.78 2.75E-04	0.10										

Notes:
(1) MW-36/36D installed November 2008

Table 2
Summary of Calculated Groundwater Flow Velocities
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Sampling Date:		5/15-21/2008		11/5-08/2008		3/10-13/2009		12/02-04/2009		5/11-13/2010	
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	0.0230	4.21E-02	0.0232	4.26E-02	0.0229	4.20E-02	0.0230	4.22E-02	0.0234	4.29E-02
MW-6	10.58 3.73E-03	0.13	0.0202	1.65E+00	0.0203	1.65E+00	0.0203	1.65E+00	0.0200	1.63E+00	0.0207	1.68E+00
MW-7	1.15 4.06E-04	0.18	0.0250	1.60E-01	0.0251	1.61E-01	0.0251	1.60E-01	0.0251	1.61E-01	0.0256	1.64E-01
MW-8	3.61 1.27E-03	0.18	0.0243	4.87E-01	0.0242	4.85E-01	0.0241	4.84E-01	0.0242	4.86E-01	0.0246	4.93E-01
MW-9	1.22 4.30E-04	0.30	0.0197	8.00E-02	0.0198	8.05E-02	0.0197	8.02E-02	0.0198	8.04E-02	0.0201	8.18E-02
MW-10	0.509 1.80E-04	0.05	0.0168	1.71E-01	0.0171	1.74E-01	0.0170	1.73E-01	0.0171	1.74E-01	0.0170	1.73E-01
MW-11	5.66 2.00E-03	0.13	0.0212	9.23E-01	0.0213	9.29E-01	0.0211	9.17E-01	0.0211	9.19E-01	0.0214	9.31E-01
MW-22	0.07 2.47E-05	0.18	0.0181	7.03E-03	0.0181	7.04E-03	0.0181	7.04E-03	0.0182	7.06E-03	0.0183	7.11E-03
MW-23	3.59 1.27E-03	0.30	0.0194	2.33E-01	0.0196	2.34E-01	0.0196	2.34E-01	0.0196	2.34E-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	0.0245	2.78E-02	0.0247	2.80E-02	0.0248	2.81E-02
MW-36	17.56 6.19E-03	0.30					0.0194	1.14E+00	0.0194	1.14E+00	0.0198	1.16E+00
MW-36D	0.78 2.75E-04	0.10					0.0193	1.50E-01	0.0193	1.51E-01	0.0196	1.53E-01

Notes:
(1) MW-36/36D installed November 2008

Table 2
Summary of Calculated Groundwater Flow Velocities
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

	Sampling Date:		10/25-27/2010		3/15-16/2011	
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	0.0237	4.34E-02	0.0233	4.28E-02
MW-6	10.58 3.73E-03	0.13	0.0206	1.68E+00	0.0204	1.66E+00
MW-7	1.15 4.06E-04	0.18	0.0256	1.63E-01	0.0254	1.62E-01
MW-8	3.61 1.27E-03	0.18	0.0248	4.98E-01	0.0246	4.93E-01
MW-9	1.22 4.30E-04	0.30	0.0201	8.19E-02	0.0199	8.09E-02
MW-10	0.509 1.80E-04	0.05	0.0172	1.75E-01	0.0172	1.75E-01
MW-11	5.66 2.00E-03	0.13	0.0215	9.36E-01	0.0213	9.28E-01
MW-22	0.07 2.47E-05	0.18	0.0184	7.16E-03	0.0183	7.11E-03
MW-23	3.59 1.27E-03	0.30	0.0197	2.36E-01	0.0197	2.36E-01
MW-24	0.34 1.20E-04	0.30	0.0250	2.83E-02	0.0248	2.81E-02
MW-36	17.56 6.19E-03	0.30	0.0198	1.16E+00	0.0195	1.14E+00
MW-36D	0.78 2.75E-04	0.10	0.0196	1.53E-01	0.0194	1.51E-01

Notes:
(1) MW-36/36D installed November 2008

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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-11	11-Mar-09			99.1JB	**6.29**	0.24J	4.39JB	**6.51JB**	13.6B	5.84JB				6.34JB			**20.3JB**	20.7
MW-11	3-Dec-09			412	2.36	0.022J	**14.9**	**25.4**	102B	**19.2**		14.5J	10.7				**99B**	120B
MW-11	12-May-10			62.1J			1.45J		1.92J								**2.67J**	12.6
MW-11	26-Oct-10			143			3.50J	**5.47J**	25.8	5.69J							**23.0J**	42.7
MW-11	17-Mar-11			76.7J			1.6J		3.88J							0.265J	**3.51J**	24.3
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
MW-11d	16-Mar-09		4.11J	87.7JB	**6.11B**	0.41J	7.14JB		15.3B	6.94JB				1.22JB			**20.1J**	21.9
MW-11d	4-Dec-09			61.4JB			5.41JB		8.2JB					3.16JB			**7.28JB**	8.85JB
MW-11d	13-May-10	**1.01J**		47.8J			5.10J		3.10J								**5.50J**	12.3
MW-11d	27-Oct-10	**1.73J**		41.3J			3.56J		2.79J								**3.82J**	9.73J
MW-11d	18-Mar-11	0.852J		51.2J			3.43J		4.41J								**3.73J**	8.04J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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	NS
MW-5	22-Apr-97	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
MW-5	6-May-98	NS	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
MW-5R	11-Mar-09			116B	0.63J		4.97JB	**10.5B**	5.48JB	4.30JB		5.44J		7.03JB			**4.16JB**	9.72J
MW-5R	3-Dec-09			106				**3.6J**	3.2JB			2.36					**1.45JB**	38.3B
MW-5R	12-May-10			96.9J			2.85J	**1.17J**				3.11J						6.29J
MW-5R	25-Oct-10			77.0J		1.66	3.45J		6.88J	14.4		2.43J		11.8				25
MW-5R	16-Mar-11			95J			4.62J					3.39J				0.267J		6.9J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	NS	0.5	NS	NS	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-6	11-Mar-09			477B		0.58J	5.14JB	**72.1B**	10.4B	7.43JB	0.143J	14J		8.39JB		**7.8**	**3.78JB**	4.50J
MW-6	3-Dec-09			449	0.61J	0.31J	2.47J	**62.4**	7.16JB			11.4J	3.7J					3.41JB
MW-6	12-May-10	0.286J		575		**2.03**		**80**	3.44J	2.10J		15.8J	4.88J	3.26J		0.259J		5.33J
MW-6	26-Oct-10	0.338JB		416		1.02		**37.4**	8.73J	9.55J		10.5J	3.32J	9.23J				17.5
MW-6	16-Mar-11			365			7.08J	**57.7**	4.66J			11.5J	2.68J	3.18J		**0.741J**		51.3
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
MW-6d	12-Mar-09			69.7J			2.30J		5.24JB							**5.51**	**7.89JB**	6.82J
MW-6d	3-Dec-09			119			2.39J		6.14JB			5.84J					**6.45JB**	9.62JB
MW-6d	12-May-10	0.619J		77.7J			3.06J	**2.35J**	3.50J			2.40J					**4.15J**	10.3
MW-6d	27-Oct-10	**3.99J**		52.3J			2.17J		3.76J								**4.41J**	12.5
MW-6d	16-Mar-11	0.961J		68.2J			3.05J		3.91J							**0.428J**	**3.28J**	6.94J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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
MW-7	10-Mar-09			10.7J			8.23J	**19.3**	8.17J	4.72J		6.35J		3.42JB			**9.49J**	
MW-7	2-Dec-09			52.8J	0.74J	0.66J	**18.5**	**17.5**	27.5B			10J					**15.3JB**	13.8B
MW-7 (dup)	2-Dec-09			38.4J	0.56J	0.52J	9.86J	**14.5**	20.7B			7.69J					**9.07JB**	8.36JB
MW-7	13-May-10			49.7J		0.90J	1.64J	**32.7**	16.2	4.14J		10.7J	0.889J				**4.95J**	15.6
MW-7	27-Oct-10			66.5J		1.32	6.18J	**33.8**	10.1	3.50J		15.1J	0.999J	2.68J			**8.20J**	27.7
MW-7	16-Mar-11			51.7J		1.2	6.76J	**30.5**	4.81J			11.8J	1.42J	3.14J		**0.36J**	**1.73J**	11.8

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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	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-8	11-Mar-09			37.1JB	2.75		4.38JB	**4.48JB**	5.02JB		0.045J	4.91J		7.06JB			**3.71JB**	
MW-8	3-Dec-09			34.1J	0.5J		6.17J		6.8JB			3.15J					**9.97JB**	59.1B
MW-8	12-May-10			32.5J			1.24J										**1.42J**	4.80J
MW-8	25-Oct-10			37.0J	0.106J	0.804J	1.69J		7.78J	5.34J				4.12J			**1.61J**	22.9
MW-8	16-Mar-11			41.1J			2.83J		1.63J			2.22J	0.873J			0.279J	**1.65J**	6.42J
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
MW-8d	16-Mar-09			44.5JB	**9.80B**		6.95JB		6.72JB	6.18JB				2.01JB			**9.36JB**	9.52J
MW-8d	4-Dec-09			32.8JB			8.01JB		8.86JB	9.36JB			4.49J	2.65JB			**4.48JB**	6.64JB
MW-8d	13-May-10	0.884J		24.2J		0.602J	4.79J										**4.39J**	11.9
MW-8d	27-Oct-10	**3.52J**		68.8J			7.58J		4.55J	3.62J		2.06J					**7.95J**	16.6
MW-8d	18-Mar-11	0.512J		28.7J			5.85J		4.41J	2.19J							**5.18J**	4.47J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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
MW-9	11-Mar-09			178B			7.63JB	**9.53JB**	3.17JB	10.3B				8.89JB			**4.57JB**	
MW-9 (dup)	11-Mar-09			179B			9.27JB	**9.33JB**	3.39JB	6.28JB		6.45J		8.78JB		**7.3**	**10.8JB**	9.56J
MW-9	3-Dec-09			190	0.64J		7.84J	**2.86J**	5.25JB				4.37J				**1.49JB**	4.02JB
MW-9	12-May-10			227	0.276J			**6.27J**		4.59J			0.936J	2.42J				17.6
MW-9	26-Oct-10		3.47J	157	0.207J	0.695J		**3.92J**	8.84J	7.02J		2.80J		5.70J				20.9
MW-9	17-Mar-11			176	0.241J		7.36J	**4.82J**	2.1J	3.79J			0.841J	3.51J		**0.405J**		13.2

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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-10	11-Mar-09			29.3JB		0.20J	2.27JB	**5.65JB**	3.07JB	7.77JB	0.247J	5.41J		7.13JB			**4.32JB**	7.14J
MW-10	3-Dec-09			16.3J	0.64J				3.96JB								**2.56JB**	8.35JB
MW-10	12-May-10			23.5J	0.147J			**4.51J**				4.31J						12.9
MW-10	25-Oct-10	**1.33JB**		18.4J	0.30J	0.627J		**1.53J**	8.36J	5.19J	0.241	1.89J		3.17J				22.5
MW-10	17-Mar-11			34J	0.285J		2.22J	**1.93J**	4.17J	2.25J	0.388	2.48J				**0.352J**		14.1
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
MW-10d	12-Mar-09				0.75J		4.38J		3.46JB	4.98J							**9.69JB**	8.62J
MW-10d	4-Dec-09			19.6JB			3.78JB		8.17JB					2.67JB			**2.08JB**	5.77JB
MW-10d	13-May-10			8.37J		0.466J	**27.6**		2.93J	2.54J		13.5J					**2.61J**	9.28J
MW-10d	27-Oct-10			3.34J			4.50J		1.61J								**1.55J**	
MW-10d	18-Mar-11			3.88J					2.16J									4.02J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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-22	12-Mar-09			21.5J		**10.3**	2.39J	**26.9**	1.92JB	4.02J		11.6J		1.79J		**6.65**	**35.1B**	10.3
MW-22	4-Dec-09			44.9JB		**4.05**	4.97JB	**22.1**	8.74JB			10.4J	3.05J	3.24JB			**5.22JB**	9.59JB
MW-22	12-May-10			30.5J		**2.23**		**19.2**				5.88J						21.5
MW-22	26-Oct-10			29.5J		**2.06**	2.66J	**13.0**	7.94J			5.73J					**2.94J**	21.6
MW-22	18-Mar-11			40.7J	0.105J	**2.21**	4.1J	**14.8**	2.71J	3.69J		7.49J					**4.89J**	16.1

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
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
MW-23	12-Mar-09			62.1J	2.99		**11.9**	**3.31J**	22.1B	13		7.02J					**36.7B**	35
MW-23	4-Dec-09			48.6JB			4.33JB		12.2B					3.02JB			**3.57JB**	6.88JB
MW-23	13-May-10			124			**23.8**	**9.69J**	45.6	**23.6**		12.8J				**0.348J**	**52**	81.7
MW-23	27-Oct-10			50.9J		0.562J	8.39J	**1.18J**	14.2	7.54J		2.91J					**14.0J**	20.3
MW-23 (dup)	27-Oct-10			54.3J			9.05J		15.7	7.75J		3.58J					**14.5J**	19.4
MW-23	18-Mar-11			43.3J			5.52J		9.92J	6.42J		3.64J					**11.4J**	23.7

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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-23d	12-Mar-09			24.4J			1.71J		3.23JB								**9.35JB**	12.6
MW-23d	4-Dec-09			50.1JB		0.17J	4.98JB		8.53JB	10.7B				2.77JB			**7.17JB**	11.2B
MW-23d	13-May-10	**2.10J**		41.6J		0.593J	5.43J		3.27J	2.06J							**7.12J**	39.3
MW-23d	26-Oct-10	**1.08J**		25.2J		0.385J	3.62J		1.78J								**4.05J**	7.70J
MW-23d	17-Mar-11	0.561J		41.7J			4.14J		4.38J				1.04J				**5.04J**	5.36J

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**0.2**	**50**	**10**	**10**	**100**	**5.5**	**25**	**10**
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	NS
MW-24	12-Mar-09			52.3J			4.48J		8.35JB	9.33J	0.168J						**18JB**	57.1
MW-24	4-Dec-09			39.7JB			4.11JB		14.9B	11.1B				3.52JB			**4.63JB**	10.2B
MW-24	13-May-10		2.98J	82.9J			6.43J	**3.42J**	9.23J	13.2	0.197J					0.241J	**13.9J**	87.7
MW-24	27-Oct-10		3.63J	50.2J			3.49J		5.21J	6.78J							**8.13J**	50.4
MW-24	18-Mar-11		3.98J	33J			2.17J		2.92J	3.62J			1.13J				**4.25J**	27.1

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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-28	12-Mar-09			22.8J			4.87J							0.89J			**10.1JB**	13
MW-28	13-May-10			35.6J			6.55J	**1.35J**									**7.87J**	17.6
MW-28	18-Mar-11			51.5J			9.81J	**1.82J**	2.29J	5.21J		2.92J	1.45J			0.179J	**14J**	40.5
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**	
MW-28d	12-Mar-09						2.99J		2.04JB	6.28J							**12.7JB**	8.95J
MW-28d	13-May-10			7.52J			2.21J										**3.05J**	8.79J
MW-28d	18-Mar-11			14.3J			4.17J		2.91J	2.31J		2.08J	1.59J				**4.96J**	16.8

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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-29d	10-Mar-09						**11.8**		5.96J	6.80J				1.97JB		6.41	**7.77J**	8.23J
MW-29d	2-Dec-09			37.1J			4.39J		12.6B			2.68J					**5.01JB**	4.93JB
MW-29d	13-May-10			38.5J			4.33J		2.61J								**3.10J**	23
MW-29d	27-Oct-10	0.542J		30.7J			5.46J		2.91J								**2.09J**	15.7
MW-29d	18-Mar-11	0.391J	3.08J	54.8J			9.57J		16.2	4.09J		4.15J					**7.4J**	15.5
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
MW-30	11-Mar-09			206B	3.46		**61.6B**	**20.3B**	116B	14.4B		34.4J		6.51JB			**85.9B**	57.8
MW-30	4-Dec-09			42.1JB			7.58JB		14.2B	10.7B			3.08J	2.47JB			**6.6JB**	23.6B
MW-30	12-May-10		4.72J	**774**		1.25	**239**	**64.5**	373	**34.2**		**114**				**1.08J**	**253**	254
MW-30	26-Oct-10		4.15J	155			**38**	**9.46J**	68.7	7.91J		18.3J					**40.6**	52.5
MW-30	18-Mar-11			91.1J	0.202J		**29**	**4.25J**	37.1	8.69J		11.2J	1.12J				**27**	37.1

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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-31	11-Mar-09			85.6JB	1.34		**30.2B**	**6.48JB**	21.7B	**19.2B**		11J		6.54JB			**36.4B**	11.1
MW-31	4-Dec-09			38.4JB			**13.4B**		14.5B	11.3B		5.52J	4.62J	2.91JB			**11.8JB**	10.2B
MW-31	12-May-10		3.31J	70.9J	0.182J		**32.4**	**2.22J**	17.1	9.41J		4.63J					**33.5**	27.1
MW-31	26-Oct-10			21.5J	0.102J		7.8J		4.32J	1.99J							**5.48J**	31
MW-31	17-Mar-11			42.6J			**14**		7.79J	4.47J		3.2J				0.255J	**9.69J**	26.3
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
MW-31d	10-Mar-09						5.52J			5.19J				1.44JB			**19.9J**	
MW-31d	2-Dec-09			15.8J			5.23J		9.19JB							**0.42J**	**7.27JB**	35.5B
MW-31d	11-May-10	0.468J	3.16J	17.6J		0.371J	8.36J		1.74J								**7.97J**	17.7
MW-31d	25-Oct-10	0.582JB		14.8J	0.111J		6.56J										**7.10J**	10.6
MW-31d	16-Mar-11	**1.19J**		20.3J			9.86J		4.08J	2.56J			1.24J			**0.327J**	**9.46J**	30.5

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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	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
MW-32	11-Mar-09			23.5JB			4JB	**7.94JB**	13.4B	5.74JB		5.61J		6.91JB			**10.9JB**	
MW-32	4-Dec-09			21.6JB			4JB	**8.41JB**					3.28J	3.21JB			**0.78JB**	3.89JB
MW-32	12-May-10			11.7J			1.34J	**4.70J**	6.82J								**3.52J**	19.1
MW-32	26-Oct-10			20.7J			3.54J	**3.28J**	16			2.48J					**10.7J**	21.1
MW-32	17-Mar-11			21.8J	0.145J		4.58J	**2.91J**	18.2	2.11J		3.91J				0.276J	**7.49J**	29.5
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
TB-1a	11-Mar-09			64.8JB	3.46	**3.25**	9.58JB	**9.49JB**	39B	9.25JB	0.253J	12.2J		6.57JB			**23.9JB**	17.3
TB-1a	3-Dec-09			68.5J	0.45J	**3.33**	9.13J	**3.89J**	56.4B	6.92J		12.2J	3.97J				**23JB**	26.5B
TB-1a	12-May-10			76J		1.49	9.71J	**7.78J**	55.4		0.339	7.66J					**25.8**	27.7
TB-1a	26-Oct-10			43.4J		0.544J	4.92J	**4.77J**	27.2			5.70J					**12.5J**	28.2
TB-1a	17-Mar-11			32.7J			2.46J	**2.23J**	11.6	2.68J		3.14J	0.849J			0.332J	**7.45J**	16.3

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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**	
TB-1a deep	12-Mar-09				**4.48**	0.23J	**12.6**		3.46JB	6.73J							**9.29JB**	18.5
TB-1a deep	4-Dec-09			30.1JB			**12.6B**		9.35JB			7.1J		3.05JB			**4.21JB**	77.9B
TB-1a deep	11-May-10	0.553J		13J			**19.5**		3.25J			3.51J	1.07J				**8.23J**	22.4
TB-1a deep	25-Oct-10	0.785J		7.98J			**11.4**		1.83J			1.92J					**6.13J**	7.70J
TB-1a deep	16-Mar-11	**1.19J**		14.9J			**16.7**		3.97J	2.03J		4.68J	0.946J			**0.338J**	**7.43J**	12.4
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**	**1,165**
MW-33	15-May-08			54.9J			**20.2**		14.6	5.11J		6.9J		4.47J		**10.7**	**19.2J**	31.1
MW-33	12-Mar-09			21.9J			4.58J		1.88JB	4.65J							**7.79JB**	5.35J
MW-33	12-May-10			100			**44.7**	**14.4**	30	3.13J		16.5J					**68.1**	90.9
MW-33	16-Mar-11			66.9J			**21.1**	**5.46J**	14.9	4.04J		7.61J				**0.298J**	**29**	45.9
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			**1,108**	**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
MW-34	12-Mar-09			73J			3.78J		3.8JB		0.121J						**12.7JB**	12.2
MW-34	12-May-10		4.96J	393	1.63	0.50J	**47.5**	**14.5**	63.2	13	0.246	31.3J				0.127J	**99.6**	129
MW-34	17-Mar-11			238	2.19		**37.2**	**8.32J**	46.3	13.7		24.9J		2.47J		0.254J	**72**	94.5

Table 3a
Detected Groundwater Constituents - Metals
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin	Thallium	Vanadium	Zinc
NC2L		**1***	**10**	**700**	**4***	**2**	**10**	**1***	**1,000**	**15**	**1**	**100**	**20**	**20**	**2000***	**0.28***	**0.3***	**1,000**
SWSL		**6**	**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-34d	12-Mar-09			21.5J			4.48J		2.29JB							**5.78**	**8.27JB**	18
MW-34d	11-May-10			23.1J		0.396J	8.78J		13.5								**1.52J**	20.3
MW-34d	16-Mar-11	0.351J		33.2J			9.87J		8.59J	2.06J			0.946J			0.209J	**1.83J**	11.2
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-35	10-Mar-09			34J										1.42JB		**8.59J**		
MW-35	12-May-10			109	0.648J		**16.2**	**9.60J**	22.7	3.21J		8.98J					**42.9**	44.9
MW-35	17-Mar-11			52.9J	0.536J		5.36J	**2.04J**	7.03J	2.33J		3.08J				0.192J	**10.2J**	23.2
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-36	10-Mar-09			107			**13**	**5.23J**	19.1			5.71J		1.56JB			**27.2**	11.5
MW-36	4-Dec-09			71.1JB			4.21JB		8.25JB	9.4JB				2.78JB			**3.72JB**	4.9JB
MW-36	12-May-10			96.9J			**18.3**	**7.48J**	18.9			7.38J					**24.0J**	23.3
MW-36	26-Oct-10			46.0J			5.94J	**1.58J**	6.28J			2.01J					**7.32J**	12.2
MW-36	17-Mar-11			69.7J			**10.4**	**2.66J**	9.6J	2.28J		4.16J	0.962J			**0.282J**	**10.7JB**	13.8
MW-36d	4-Dec-08			102B			**70.4B**	**6.46J**	32.8B	4.12J	0.13JB	20.0J				**7.59**	**37**	55.6
MW-36d	10-Mar-09			39.8J			**18.1**		11.6	3.94J		9.35J		1.87JB			**16.6J**	
MW-36d	2-Dec-09			54J			**26**		11.6B			15.9J					**10.7JB**	4.16JB
MW-36d	13-May-10			105			**30.6**	**5.53J**	32.4	2.42J		13.6J					**32.2**	25
MW-36d (dup)	13-May-10			126		0.374J	**44.2**	**7.51J**	43	2.67J		18.7J				0.167J	**41.3**	34.4
MW-36d	27-Oct-10	0.269J		79.9J			**69.2**	**2.30J**	20.3	2.50J		32.6J					**20.7J**	12.3
MW-36d	18-Mar-11			98.4J			**32.3**	**2J**	32.5	4.8J		15.5J	1.73J				**29.3**	17.8
MW-36d (dup)	18-Mar-11			88.4J			**27.1**	**1.35J**	27.3	2.51J		12.7	0.845J				**24.5J**	14.2

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Groundwater Standards (2L)
- Indicates result below detection limits
* - Groundwater Protection Standard
NS - Not Sampled; NE - Standard Not Established; dup - Duplicate Sample
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
MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
MW-36/36d installed November 2008
Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																													
MW-11	11-Mar-09									0.14J																	0.11J												
MW-11	3-Dec-09									0.14J																													
MW-11	12-May-10																																						
MW-11	26-Oct-10																																						
MW-11	17-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																													
MW-11d	16-Mar-09									0.28J																									0.999J				
MW-11d	4-Dec-09									0.29J																													
MW-11d	13-May-10																																						
MW-11d	27-Oct-10																																						
MW-11d	18-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-5	6-Mar-94		4.9												150		0.84	2.1					17				6.3		5.3	14	9.2		2	3.23					
MW-5	15-Apr-94		4.2						35.7		5.7				99.6	1.1	1.2	1.5					11.7				6.3			11.8	17.9								
MW-5	11-May-94		2.4						24		5.7				74		1.1						11				4.9	2		8.2	26								
MW-5	31-May-94		3.1							0.6					47		1.2	1.2									5.4		7.2	8.1				2.72					
MW-5	10-Jun-94		2.8						24.5						71.8		1.4	1.2									3.6		7.6	7.1									
MW-5	30-Sep-94		1.9						18.7						41.6												4.6		8.9										
MW-5	13-Jun-95		10						48					22				8	196								10			19									
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	NS	NS	NS	NS	NS
MW-5	31-Oct-95		9						61						230			14					18							11									
MW-5 (dup)	31-Oct-95		9						53						210			14					15				9			16									
MW-5	30-Jan-96		10						50					16	198			23									7			17									
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	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	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	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	NS	NS	NS	NS	NS
MW-5	8-Dec-98		7.9						20			6.0		10	74			15					79				11			17				6.5					
MW-5	16-Apr-99		8						22						87			42					100				6			14									26
MW-5	2-Dec-99		6												60			72									6			16									
MW-5	11-Apr-00		6						14			11.0			70			34									10			22		140							
MW-5	20-Dec-00														39			17												14									
MW-5	16-Apr-01											7.0			44			29												17									
MW-5	3-Dec-01														31			20												12									
MW-5	12-Apr-02											7.0			32			33												16									
MW-5	5-Nov-02								10			6.0			26			31												15									
MW-5	17-Apr-03											14.0			24			44												11									
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	20.5	8.8																				2.6			13						
MW-5R	21-Apr-04											16.5			13.1			56.2																					
MW-5R	21-May-08		0.34J					1.00J	0.67J			6.17			0.8J			4.22J					0.24J							0.26J									
MW-5R	10-Nov-08		0.23J					0.63J				5.49			0.61J			1.95J					0.23J							0.13J									
MW-5R	11-Mar-09											0.91J																											
MW-5R	3-Dec-09											0.51J						0.09J																					
MW-5R	12-May-10											2.1			0.57J			0.53J																					
MW-5R	25-Oct-10										0.51J	2.5																											
MW-5R	16-Mar-11											2.1																											

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-6	6-Mar-94		1.7							0.83					34								37				3.4		5.9	4.6	3.9			2.42					
MW-6	15-Apr-94								8.5		1.2				12.5								21				1.9			2.1	2.6								
MW-6	11-May-94								18.4		1.2				28.7								64.2				2.3			4.9	2.6								
MW-6 (dup)	1-Jun-94		3.7							4.3					50								130				7		14	7.5	11			16.6					
MW-6	25-Aug-94								22						36								79.8																
MW-6	29-Sep-94		2						18		66				34								6.1				3		1.4										
MW-6	13-Jun-95								19						28								61							6									
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	NS	NS	NS	NS	NS
MW-6	31-Oct-95								22						32								56							6									
MW-6	30-Jan-96		6						37						61															11									
MW-6	29-Nov-96								34						41								91							16									
MW-6	22-Apr-97		5.4						37						29			6.7					88							15									
MW-6	2-Nov-97		6.1						28						28			7.8					90				5.2			16									
MW-6	6-May-98								29						34			13					140							17									
MW-6 (dup)	6-May-98								30						35			14					140							19									
MW-6	8-Dec-98								26						40			14					180							19									
MW-6	16-Apr-99		5						16						26								110							11									
MW-6	2-Dec-99														12			7					67							6									
MW-6	11-Apr-00														12			7					63							6									
MW-6	19-Dec-00														6								20																
MW-6	16-Apr-01														8			6					46																
MW-6	3-Dec-01																	6																					
MW-6	12-Apr-02														7			5					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	3.85J			2.07			1.22J			2.3J					0.62J					0.14J		0.9J			3.29		2.17J	1.86J		1.06J	
MW-6	11-Nov-08		4.12					1.29J	3.90J			2.72		0.33J	1.27J			2.22J					1.08					0.20J		0.98J			4.01						
MW-6	11-Mar-09		3.3					1.22J	2.43J			2.02			0.75J			2.21J										0.11J		0.71J			3.61						
MW-6	3-Dec-09		2.56					1.7J	1.79J			1.78			0.79J			1.49J					0.28J					0.14J		0.6J			2.24						
MW-6	12-May-10	6.5J	1.3					2.8J				2.80			0.95J			1.7J															3.0						
MW-6	7-Jul-10		3.9					2.3J	2.3J			2.70			0.85J			1.5J															2.6						
MW-6	29-Jul-10		3.7					2.6J	2.0J			3.20			0.86J			1.1J															2.5						
MW-6	13-Aug-10		4.3					2.5J	2.1J			3.00			0.97J			1.3J															2.5						
MW-6	26-Oct-10		4.5					2.3J				3.00			1.0J			1.3J																					
MW-6	16-Mar-11		3.4					1.3J				1.6			0.42J			1.3J															1.8						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-6d	8-Jun-01														8			6																					
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									0.49J				3.04J	5.7			0.85J					0.34J				**0.71J**			0.91J	0.91J								
MW-6d	6-Nov-08		0.23J							0.57J		0.44J		2.76J	**6.12**			1.10J					0.77J				**1.06**			1.13	1.10								
MW-6d (dup)	6-Nov-08		0.25J							0.61J		0.45J		2.69J	**6.16**			1.00J					0.68J				**1.08**			1.13	0.99J								
MW-6d	12-Mar-09									0.43J				1.47J	3.24J			0.54J					0.33J				**0.77J**			0.49J	0.55J								
MW-6d	3-Dec-09									0.58J		0.28J		1.86J	5.51			0.9J					0.42J				0.69J			0.86J	0.75J								
MW-6d	12-May-10									0.92J				1.9J	**6.2**			1.1J					0.81J				**0.70J**			0.77J	0.79J								
MW-6d	7-Jul-10		0.42J							0.91J		0.55J		2.9J	**8**			1.9J					0.78J				**0.97J**			1.2	1.1								
MW-6d	29-Jul-10									1.0J		0.68J			**7.6**			1.5J									**1.2**			1.3	1.4								
MW-6d	13-Aug-10									1.1J		0.61J			**7.8**			1.7J					1.1				**1.2**			1.3	1.1								
MW-6d	27-Oct-10									1.2J		0.67J		3.0J	5.2			1.2J									**0.81J**			1.1	1.0								
MW-6d	16-Mar-11													0.91J	3.2J								0.49J																

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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	NS	NS	NS	NS	NS
MW-7	31-Oct-95								11						5																								
MW-7	30-Jan-96																																						
MW-7	29-Nov-96								22						9			2									4			5									
MW-7	21-Apr-97								19						11			5.9																					
MW-7	1-Nov-97								26						10			6.2																					
MW-7	6-May-98								24						17			21																					
MW-7	8-Dec-98		7.2						32						20			36					12							5.2									
MW-7	16-Apr-99								21						14			24																					
MW-7	2-Dec-99														9			16																					
MW-7	11-Apr-00														8			17																					
MW-7 (dup)	11-Apr-00														8			17																	16				
MW-7	19-Dec-00														5			10																					
MW-7 (dup)	19-Dec-00														6			12																					
MW-7	16-Apr-01														6			13																	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									2.7						22.3															7.7						
MW-7	15-May-08		1.61					0.24J				0.77J	0.15J		0.44J			7.68															2.74		0.907J				
MW-7	5-Nov-08		1.04					0.14J				0.83J	0.16J	1.10J	0.25J			3.14J										0.15J					2.09						
MW-7	10-Mar-09		1.56					0.20J				1.17		1.34J				3.40J										0.68J					2.73	0.96J	2.36J				
MW-7	2-Dec-09		1.37					0.2J	0.62J			1.13	0.23J	0.69J	0.32J			2.24J										0.3J					1.82	0.48J					
MW-7 (dup)	2-Dec-09		1.38					0.22J	0.59J			1.11	0.23J	0.76J	0.29J			2.34J										0.32J					1.93	0.45J					
MW-7	13-May-10		2.1									2			0.46J			1.8J															3.1	0.50J					
MW-7	27-Oct-10		2.3					0.42J				2.5	0.72J		0.61J			1.6J										0.49J					2.9	1.2J					
MW-7	16-Mar-11		1.8									1.6						0.74J															1.5						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-8	6-Mar-94		6.8							2.2		3.2			13	1	1.3	7.6			0.56		450				7.5	4	18	16	7.3		0.76	35.6					
MW-8	15-Apr-94		7.9						39.8	1.3	8.8	4.9			88.6	1.8	1.5	8.9		3	1.4		310				8.1	5		17.5	5.1			39.7					
MW-8	11-May-94		5.6						34						83								278				7			15				27.1					
MW-8	31-May-94		12							1.1		13			110	2.6	1.6	23					310			3.1	16	11	16	29	4.4			89					
MW-8	25-Aug-94								51.3						109								400											32					
MW-8	30-Sep-94		5.8						35		12.2	5.2			86			5.6					300						8.9	13				22.8					
MW-8	13-Jun-95								15						36								47							6				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	NS	NS	NS	NS	NS
MW-8	31-Oct-95		8						40	8				8	72			23			32		137				9			14									
MW-8	30-Jan-96		10						37					10	71			34					123				18			23				58	20				
MW-8	29-Nov-96		4			8			15			3		5	18			24					23				13		1	12				13					
MW-8	21-Apr-97														10			20					16				8.3			8.1					8				
MW-8	2-Nov-97														6.3			22												5.2									
MW-8	6-May-98		5.7												15			56					13				7.8			8.7				6.1					
MW-8	8-Dec-98														7.9			37												5.2									
MW-8	16-Apr-99											6			13			55												6									
MW-8 (dup)	16-Apr-99														10			41																					
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	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		0.38J		0.16J			0.96J			14.2					0.76J				0.28J			0.39J									
MW-8	10-Nov-08		0.14J							0.39J					0.58J								1.17				0.17J	0.11J		0.23J									
MW-8	11-Mar-09		0.20J					0.19J		0.32J					0.61J			6.84					0.30J																
MW-8	3-Dec-09		0.22J							0.35J					0.62J			8.04					0.45J				0.13J			0.25J			0.44J						
MW-8	12-May-10											0.40J			1.0J			19					0.78J										0.84J						
MW-8	25-Oct-10		0.41J												1.0J			56					0.69J							0.58J									
MW-8	16-Mar-11														0.61J			17																					

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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					0.17J			0.07J																					
MW-8d	6-Nov-08									0.31J													0.62J																
MW-8d	16-Mar-09									0.39J					0.14J			0.07J									0.44J												
MW-8d	4-Dec-09									0.36J					0.14J			0.08J																					
MW-8d	13-May-10									0.45J																													
MW-8d	27-Oct-10									0.61J																													
MW-8d	18-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-9	6-Mar-94		5.3							5.8		1.6			100		1.3				0.73		680				6.6	6	7	8.7	4.2		0.96	15.2					
MW-9	15-Apr-94		5.6						14.1	4.9	7.3	2.4			96.8		1.8	0.7					357				8.2	1.6		12.4	3.6			17.3					
MW-9	11-May-94		6.8							5	20.1				134								357				7.6			13				20.5					
MW-9	31-May-94		8.2							6.6		3.4			170		1.7						460				8.8	1.7	8.7	14	3.6			23.3					
MW-9	25-Aug-94														165								558																
MW-9	29-Sep-94		7							5.1					131								400				8.2		6.5					16					
MW-9	13-Jun-95		11						20					28	203								258				11		7	23				8					
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	NS	NS	NS	NS	NS
MW-9	31-Oct-95		15						29					44	310								278				14			27				14					
MW-9	30-Jan-96		14						22		11			33	270												8			23				6					
MW-9	29-Nov-96		22												280															31									
MW-9	22-Apr-97		24											16	220															28				14.2					
MW-9	2-Nov-97													32	200																								
MW-9	6-May-98		17											31	210												13			32									
MW-9	8-Dec-98		14											53	200												13			31					20				
MW-9	16-Apr-99		7											49	140												7			20					12				
MW-9	2-Dec-99														120															20									
MW-9	11-Apr-00														110															20									
MW-9	20-Dec-00													25	100															18									
MW-9	16-Apr-01													20	93			6									6			15					21				
MW-9	3-Dec-01													25	100			20												5									
MW-9 (dup)	3-Dec-01													20	89			19																	22				
MW-9	12-Apr-02														97			21																					
MW-9	5-Nov-02													19	84			20																					
MW-9	17-Apr-03		5											19	100			29										6							59				
MW-9	4-Nov-03		5												83			28										13						8					
MW-9	14-Apr-04		5.86									5.5		11.8	96			27			2.5							15					6.2	7.4	28				
MW-9	18-Nov-04											5.2		13.2	73.7			6.4										6.6					26.5						
MW-9	21-Apr-05											5.2		9.5	69.6																		29.6						
MW-9	11-Nov-05											6.7		8.3	63.1																		28.8						
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									7.4			28.9	1														1.1			26.4						
MW-9	20-May-08		2.17					0.28J	3.53J			7.73		0.42J	28.9	0.86J		3.83J		0.9J	1.51		0.24J					1.01		0.45J	0.24J		25.6	1.69J		1.11J			
MW-9 (dup)	20-May-08		2.27					0.27J				7.42			30.3			3.62J	0.23J		1.32		0.26J					1.03		0.42J			27.7	1.10J		1.01J			
MW-9	11-Nov-08		1.74					0.20J	2.24J			6.26			21.6			3.28J			1.06		0.72J					0.60J		0.28J			19.1	0.48J					
MW-9	11-Mar-09		1.96					0.24J	2.50J			6.99			22.9			4.16J	0.15J	0.86J	1.06							0.54J		0.20J			22.1	0.77J	0.834J				
MW-9 (dup)	11-Mar-09		1.85					0.24J	2.36J			6.93			22.5			4.14J	0.13J	0.83J	1.06							0.54J		0.24J			21.5	0.89J	2.07J				
MW-9	3-Dec-09		1.58					0.22J	2.37J			6.06			18.9	0.67J		5.99	0.21J	0.8J	1.15							0.37J		0.28J			21.5	0.79J					
MW-9	12-May-10											9.5			23	0.91J		6.7		1.1	2.4				1.0J			0.62J					41	2.0J					
MW-9	26-Oct-10		1.6									8.4			17	1.2		16		1.0	0.74J												25	0.57J					
MW-9	17-Mar-11		1.1									6			12	0.92J		13		0.61J													14						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-10	6-Mar-94		2.4							2.5					37		2.4						72				4.6		16	9.8	12			26.7					
MW-10	15-Apr-94		1.8						18.1	1.6	5.5				24.2	2.6	2.6						67.3				4.8			8				16.9					
MW-10	11-May-94		1.4						15.8	1.7	4				23	2.6	1.8						54.8				4			6.8	16.3			6.7					
MW-10	31-May-94		3.7							3.9					57		2.7						120				8.7		17	15	15			19.1					
MW-10	25-Aug-94								47.7		18.7				72						8		194				9.2		18.4		18			15					
MW-10	29-Sep-94		4.2						37.7	3.4	7.2				56.3		3.5						148						3.5	19	17.1			13.1					
MW-10	13-Jun-95		7						53		13			18	84								223				13		13	20				14					
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	NS	NS	NS	NS	NS
MW-10	31-Oct-95								33					46	44			10					47				7		14	8	14								
MW-10	30-Jan-96		8						48		10			29	101			12									9		8	18				8					
MW-10	28-Nov-96								3						12			1					15				2			2									
MW-10	22-Apr-97		12						31					8.5	160			20					120				25			33				19.6	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	NS	NS	NS	NS	NS
MW-10	8-Dec-98														140			48					270				16			19				12					
MW-10	11-Jan-99		7						19						140			36					320				14			18					NS				
MW-10	8-Feb-99		9						24						140			41									17			21				20	NS				
MW-10 (dup)	8-Feb-99		8						20						130			38									13			17					NS				
MW-10	16-Apr-99														160			26					410												16				
MW-10	2-Dec-99														40								77				6								14				
MW-10	12-Apr-00														46			7					88				7			6									
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													6	20								16				8												
MW-10 (dup)	5-Nov-02													6	21								16				9												
MW-10	17-Apr-03													5	26								22				7												
MW-10	4-Nov-03													5	26																								
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														5.7			17.6																					
MW-10	14-Apr-06																	11.9																					
MW-10	9-Nov-06														7.8			27.7																					
MW-10	19-Apr-07														6.3			7.4																	24				
MW-10	8-Nov-07																						1				1.3								21				
MW-10	20-May-08		1.16						1.03J			0.46J		0.55J	6.07		0.14J	7.13					3.69				2.34			1.81	0.17J		0.49J	0.52J	3.12J				
MW-10	11-Nov-08		2.26						1.46J			0.66J		0.83J	9.44			11.3					1.89				4.2			2.99			1.67	0.41J					
MW-10	11-Mar-09		3.53						1.50J			0.50J			8.52			22.3									4.06			4			1.70	0.65J	0.616J				
MW-10	3-Dec-09		4.32					0.09J	1.06J			0.68J		0.38J	7.58			28.8					0.42J				2.65			2.99			0.95J	0.15J					
MW-10	12-May-10		0.66J												1.7J			26									0.74J			0.71J			1.20						
MW-10	25-Oct-10	4.2J	4.0						1.7J		0.45J	0.67J		0.52J	4.4J			48									2.8			1.9			1.70						
MW-10	17-Mar-11		3.3									1.1			4.2J			48									2.5			2.6			1.6						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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									0.3J				0.36J	2.01J			0.2J					0.71J				0.29J			0.36J									
MW-10d	6-Nov-08		0.22J				6.01J			0.21J					2.16J			0.15J					1.47				0.32J			0.37J	0.39J								
MW-10d	12-Mar-09									0.26J				0.67J	2.30J			0.18J					1.17				0.33J			0.37J					1.12J				
MW-10d	4-Dec-09									0.25J				0.56J	2.44J			0.27J					1.06				0.47J			0.48J	0.29J								
MW-10d	13-May-10													0.78J	2.5J												0.64J			0.59J									
MW-10d	27-Oct-10													1.1J	2.5J			0.69J									1.2			0.79J	0.50J								
MW-10d	18-Mar-11														2J								1																
MW-22	9-Jun-97																																						
MW-22	18-Aug-97																																						
MW-22	2-Nov-97													5.2	6.9																								
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												
MW-22	12-Mar-09														0.09J												0.66J								0.71J				
MW-22	4-Dec-09		0.15J							1.2J													0.4J				0.31J												
MW-22	12-May-10									0.83J																													
MW-22	26-Oct-10									0.94J																	0.65J												
MW-22	18-Mar-11									0.79J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-23	9-Jun-97								40						86			7.6					100				9.3	16	6.4	9.1				13					
MW-23	18-Aug-97								33						93			11					85																
MW-23	2-Nov-97								26						68			11					40				5.6			6.3									
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												
MW-23	12-Mar-09														0.35J												0.48J												
MW-23	4-Dec-09														0.23J																								
MW-23	13-May-10																																						
MW-23	27-Oct-10																																						
MW-23 (dup)	27-Oct-10																																						
MW-23	18-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																													
MW-23d	12-Mar-09									0.24J																									1.21J				
MW-23d	4-Dec-09									0.2J																													
MW-23d	13-May-10																																						
MW-23d	26-Oct-10																																						
MW-23d	17-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
MW-24	9-Jun-97								12						37			5.1			14		200					160		8.5				57					
MW-24	18-Aug-97														68								380					400											
MW-24	1-Nov-97														56						25		340					260						98					
MW-24 (dup)	1-Nov-97														68						33		370					340						131					
MW-24	5-May-98														42						28		240					230						112					
MW-24	8-Dec-98		12						30						85			26			23		280					140		15				93	7.7				
MW-24	16-Apr-99								19						55						13		170					46						60					
MW-24	2-Dec-99														25								43											21	11				
MW-24	12-Apr-00														42			5					39				7			7				33					
MW-24	20-Dec-00														44			5					29				8			7				21					
MW-24	16-Apr-01														34			5					18				6							12					
MW-24 (dup)	16-Apr-01														34			5					20				6							12					
MW-24	3-Dec-01														33			5					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	NS	NS	NS	NS
MW-24	12-Mar-09									10.1					0.26J												0.62J								1.69J				
MW-24	4-Dec-09				*1.48J					9.11	*422				0.2J							*2.93J					0.2J												
MW-24	13-May-10									13																													
MW-24	17-Oct-10									11																													
MW-24	18-Mar-11									13																													
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 Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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-28	12-Mar-09									0.39J																													
MW-28	13-May-10																																						
MW-28	18-Mar-11																																						
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																													
MW-28d	12-Mar-09									0.33J																	0.42J												
MW-28d	13-May-10																																						
MW-28d	18-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																
MW-29d	10-Mar-09									0.12J																									0.857J				
MW-29d	2-Dec-09									0.15J																	0.21J												
MW-29d	13-May-10																																						
MW-29d	27-Oct-10																																						
MW-29d	18-Mar-11																																		1.8J				

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																
MW-30	11-Mar-09									0.39J																													
MW-30	4-Dec-09	3.01J																																					
MW-30	12-May-10																																						
MW-30	26-Oct-10									0.52J																													
MW-30	18-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																
MW-31	11-Mar-09									10.1																													
MW-31	4-Dec-09									4.62J																													
MW-31	12-May-10									4.9J																													
MW-31	26-Oct-10									2.6J																													
MW-31	17-Mar-11									2.5J																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																													
MW-31d	10-Mar-09									30.2																													
MW-31d	2-Dec-09									20																													
MW-31d	11-May-10									31																													
MW-31d	25-Oct-10									22																													
MW-31d	16-Mar-11									28																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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																
MW-32	11-Mar-09																																						
MW-32	4-Dec-09				*1.65J						*455											*3.23J																	
MW-32	12-May-10																																						
MW-32	26-Oct-10																																						
MW-32	17-Mar-11																																						

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
TB-1a	1-May-98														5.3													6.9	6.9										
TB-1a	18-Aug-98								20						39								22				7.5		9.8	7.6				23					
TB-1a	9-Sep-98								21						40								22				7.7		11	7.9				20					
TB-1a	7-Oct-98								17						35								16				8.2		11	7.1				13					
TB-1a (dup)	7-Oct-98								17						33								16				8.3		11	7.2				17					
TB-1a	9-Dec-98								14						23												5.3		8.2					11					
TB-1a	11-Jan-99								16						21												6.0		11	5.0				6					
TB-1a	8-Feb-99								15						18												7.0		10					8					
TB-1a	19-Apr-99								10						14												5.0		10					5					
TB-1a	3-Dec-99								11						19												6.0		10					9					
TB-1a	13-Apr-00								11						22												7.0		8	5.0				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														30												7.0			6.0									
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	11-Mar-09									5.6					0.33J												0.12J												
TB-1a	3-Dec-09									5.5					0.3J												0.16J												
TB-1a	12-May-10									1.3J																													
TB-1a	26-Oct-10									4.3J					0.46J												0.50J												
TB-1a	17-Mar-11									2.5J																													
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																
TB-1a deep	12-Mar-09									31.8																													
TB-1a deep	4-Dec-09									33.9																													
TB-1a deep	11-May-10									37																													
TB-1a deep	25-Oct-10									38																													
TB-1a deep	16-Mar-11									31																													

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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-33	12-Mar-09																																						
MW-33	12-May-10																																						
MW-33	16-Mar-11																																						
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														12.7			6.9																					
MW-34	20-Apr-07														13.8			6.2																					
MW-34	19-May-08		0.56J						1.74J	0.45J		0.95J		1.72J	15.3		0.23J	9.75					**10.7**				**2.14**		0.13J	**3.07**	0.56J			0.16J					
MW-34	12-Mar-09		0.47J						1.26J	0.37J		0.71J		1.72J	13.5		0.47J	9.34					**12.7**				**1.71**			2.67	0.68J			0.15J					
MW-34	12-May-10		0.64J						1.4J	0.70J		1.2		2.1J	**16**			8.7					**6**				**1.7**			2.9	0.96J								
MW-34	17-Mar-11											0.89J			**10**			11					**11**				**2.2**			**3.4**									
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									0.21J				0.36J	1.64J			1.07J					0.2J				0.32J			0.38J	0.19J								
MW-34d	12-Mar-09														0.64J			0.62J									0.51J			0.19J					1.02J				
MW-34d	11-May-10													0.41J	3.3J			1.7J												0.59J									
MW-34d	16-Mar-11														1.7J			1.6J					0.43J																

Table 3b
Detected Groundwater Constituents - Volatile and Semi-Volatile Organic Compounds
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromomethane	1,2-Dibromoethane	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	p-Dichlorobenzene	o-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	Iodomethane	Methylene Chloride	MEK (2-Butanone)	Naphthalene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl Chloride	Total Xylenes	bis(2-ethylhexyl) Phthalate	Diethylphthalate	Di-n-Butylphthalate	Dimethylphthalate	3&4-Methylphenol
NC2L		6000	1	0.6	NE	0.02	700	50	3,000	70	3	6	20	1,000	6	0.4	7	70	100	0.6	600	NE	5	4,000	6	70	0.7	600	200	3	2,000	0.005	0.03	500	3	6,000	700	NE	40
SWSL		100	1	1	10	1	100	3	10	5	1	1	5	5	5	1	5	5	5	1	1	10	1	100	10	1	1	1	1	1	1	1	1	5	15	6,000	10	10	10
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					0.55J				0.17J																	0.13J												
MW-35	10-Mar-09									0.15J				0.67J																									
MW-35	12-May-10													0.57J																									
MW-35	17-Mar-11																																						
MW-36	4-Dec-08		0.81J						0.77J	0.14J		1.46		2.25J	23.5		0.40J	7.6					0.77J				2.00			3.4	0.28J		0.84J				0.906J		
MW-36	10-Mar-09		0.86J						1.16J	0.13J		1.42		2.52J	23.4	0.36J	0.41J	7.9		0.3J			0.64J				1.62			3.22	0.38J		0.96J						
MW-36	4-Dec-09		0.68J		*1.78J				0.8J		*485	1.4		1.56J	18.6		0.33J	7.25		0.27J		*3.84J	0.46J				0.92J			2.29			0.94J						
MW-36	12-May-10		0.56J						0.45J			1.4		1.4J	17			6.5									0.86J			1.8			0.96J						
MW-36	26-Oct-10		0.45J									1.3		1.4J	14		0.42J	6.3									1.10			1.7			0.96J						
MW-36	17-Mar-11											1.1			9.1			6.3					0.47J							1.7			0.8J						
MW-36d	4-Dec-08		0.37J	0.24J						1.05J		0.28J		1.78J	10.9			3.18J					9.11				1.95	0.10J		1.5									
MW-36d	10-Mar-09		0.51J						0.74J	0.41J		0.39J		2.94J	12.4		0.28J	3.86J		0.12J			2.27				1.35			1.81	0.29J								
MW-36d	2-Dec-09		0.47J							0.4J		0.44J		1.71J	10.7		0.24J	4.2J					1.32				0.91J			1.64									
MW-36d	13-May-10		0.58J							0.50J		0.58J		2.5J	12			4.4J									1.2			1.6									
MW-36d (dup)	13-May-10		0.49J							0.51J		0.62J		2.4J	12			4.3J									1.4			1.6									
MW-36d	27-Oct-10		0.49J									0.53J		2.2J	11			5.0					0.58J							1.9									
MW-36d	18-Mar-11													1.4J	8.8			5.2					1				1			1.7									
MW-36d (dup)	18-Mar-11													1.2J	8.9			5.1					1.1				1.1			1.7									

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Groundwater Standards (2L)
- Indicates result below detection limits
NS - Not Sampled; NE - Standard Not Established; dup - Duplicate Sample
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
MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
MW-36/36d installed November 2008
MW-24 was dry during the November 2008 sampling event
Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event
* - Solvent contamination in HCl-preserved bottles caused elevated levels of chloromethane, bromomethane, and iodomethane to appear in several analyses during the December 2009 sampling event

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.03**	**0.008**	**NE**	**0.1**	**0.1**	**0.002**	**2**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.1**	**0.075**	**0.1**	**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-11	11-Mar-09													
MW-11	12-May-10													
MW-11	17-Mar-11													
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-11d	16-Mar-09													
MW-11d	13-May-10													
MW-11d	18-Mar-11													
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-5R	11-Mar-09													
MW-5R	12-May-10													
MW-5R	16-Mar-11													
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-6	11-Mar-09	**0.0743J**	**0.0437JD**	**0.0611J**		**0.0292JD**	0.104JD	0.0466JD	0.018JD		0.0574JD	0.0322JD		
MW-6	12-May-10													
MW-6	16-Mar-11													
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
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.03**	**0.008**	**NE**	**0.1**	**0.1**	**0.002**	**2**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.1**	**0.075**	**0.1**	**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-9	11-Mar-09													
MW-9 (dup)	11-Mar-09													
MW-9	12-May-10													
MW-9	17-Mar-11													
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-22	12-Mar-09													
MW-22	12-May-10													
MW-22	18-Mar-11													
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													

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		0.006*	0.019*	0.019*	0.03	0.008	NE	0.1	0.1	0.002	2	NE	2	7*
SWSL		0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.075	0.1	0.1	0.1	1
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**		
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-28	12-Mar-09													
MW-28	13-May-10													
MW-28	18-Mar-11													
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-29d	10-Mar-09													
MW-29d	13-May-10													
MW-29d	18-Mar-11													
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-30	11-Mar-09													
MW-30	12-May-10													
MW-30	18-Mar-11													
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-31	11-Mar-09													
MW-31	12-May-10													
MW-31	17-Mar-11													

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		0.006*	0.019*	0.019*	0.03	0.008	NE	0.1	0.1	0.002	2	NE	2	7*
SWSL		0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.075	0.1	0.1	0.1	1
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**		
TB-1a	11-Mar-09													
TB-1a	12-May-10													
TB-1a	17-Mar-11													
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-33	12-Mar-09													
MW-33	12-May-10													
MW-33	16-Mar-11													
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													

Table 3c
Detected Constituents - Pesticides, Herbicides, and PCB's
October 2010 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	Heptachlor	Aldrin	4,4'-DDT	DDD	Dieldrin	Endrin Aldehyde	Endosulfan I	Endrin	Dinoseb
NC2L		**0.006***	**0.019***	**0.019***	**0.03**	**0.008**	**NE**	**0.1**	**0.1**	**0.002**	**2**	**NE**	**2**	**7***
SWSL		**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**	**0.1**	**0.075**	**0.1**	**0.1**	**0.1**	**1**
MW-36	4-Dec-08		**0.059**	0.0102J	0.162									
MW-36	10-Mar-09				0.186D									
MW-36	12-May-10													
MW-36	17-Mar-11													
MW-36d	4-Dec-08				0.0366J									
MW-36d	10-Mar-09			0.0139J	0.0259JD			0.075J						
MW-36d	13-May-10													
MW-36d (dup)	13-May-10													
MW-36d	18-Mar-11													
MW-36d (dup)	18-Mar-11													

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC Groundwater Standards (2L)
- Indicates result below detection limits
* - Groundwater Protection Standard
** - Endosulfan I was also detected in the background well MW-11d and batch and equipment blanks at similar concentrations
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)
D - Detected but the relative percent difference is greater than 40% between results in the dual column method
MW-36/36d installed November 2008
Monitoring wells MW-28, -28d, -33, -34, -34d, and -35 sampled yearly during the spring event

Table 3d
Detected Surface Water Constituents - Metals
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC 2B Standard		10*	NE	6.5	2	50	NE	7**	25	88	5	0.06**	NE	NE	50**
SWSL		10	100	1	1	10	10	10	10	50	10	10	5.5	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-2	16-Mar-09		52.8JB	**9.06B**		4.73JB		**8.54JB**	3.61JB			**2.01JB**	5.89	10.4JB	12.5
SW-2	2-Dec-09		16.7J	0.46J				**7.65JB**						8.31JB	7.57JB
SW-2	13-May-10		33.8J			1.05J		1.62J							4.98J
SW-2	26-Oct-10		27.2J					3.32J						2.59J	4.67J
SW-2	17-Mar-11		41J					1.72J	2.27J				0.194J		
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-3	16-Mar-09	3.86J	47.6JB	3.16B		5.02JB		**7.72JB**	5.76JB	5.09J		**1.89JB**	5.97	12.5JB	7.17J
SW-3	2-Dec-09		32.9J	0.49J		3.65J	2.65J	**12.1B**						14.9JB	14.3B
SW-3	11-May-10		28.2J											1.60J	4.62J
SW-3	26-Oct-10		17.6J			1.03J		4.08J						3.41J	4.15J
SW-3	17-Mar-11		31.7J						1.97J				0.231J	1.86J	

Table 3d
Detected Surface Water Constituents - Metals
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
NC 2B Standard		**10***	**NE**	**6.5**	**2**	**50**	**NE**	**7****	**25**	**88**	**5**	**0.06****	**NE**	**NE**	**50****
SWSL		**10**	**100**	**1**	**1**	**10**	**10**	**10**	**10**	**50**	**10**	**10**	**5.5**	**25**	**10**
SW-7	7-Nov-08		50.8JB			16.0B	10.7	**20.3B**	9.63JB			**9.62JB**		19.8JB	6.33J
SW-7	16-Mar-09	3.45J	45.5JB	5.37B		4.51JB		**7.4JB**	9.39JB			**2.04JB**		14.8JB	7.09J
SW-7	2-Dec-09		21.1J	0.05J		4.8J		**7.02JB**						8.72JB	8.19JB
SW-7	13-May-10		25.0J											1.44J	
SW-7	26-Oct-10		21.6J			1.71J		4.07J						3.77J	4.95J
SW-7	18-Mar-11		30.9J								0.976J		0.188J		
SW-8	7-Nov-08		26.7JB			3.14JB		**7.10JB**				**8.56JB**		7.92JB	
SW-8	16-Mar-09		44.8JB	6.11B		5.02JB		**7.51JB**	8.08JB			**1.56JB**		10.6JB	10.2
SW-8	2-Dec-09		28.1J	0.5J		2.38J		**8.11JB**						11.8JB	20.8B
SW-8	11-May-10		21.6J												
SW-8	26-Oct-10		21.6J					3.18J						3.49J	
SW-8	18-Mar-11		28J								0.947J		0.128J		

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC 2B Surface Water Standards for Class C Waters
- Indicates result below detection limits
* - Human Health Standard
** - Action Level 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

Table 3e
Detected Surface Water Constituents - Volatile Organic Compounds
March 2011 Semi-Annula Sampling Event
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
NC 2B Standard		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.3*	11	NE
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-2	16-Mar-09														
SW-2	2-Dec-09														
SW-2	13-May-10														
SW-2	26-Oct-10														
SW-2	17-Mar-11														
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-3	16-Mar-09														
SW-3	2-Dec-09	3.66J													
SW-3	11-May-10														
SW-3	26-Oct-10														
SW-3	17-Mar-11														
SW-7	7-Nov-08									0.20J	0.72J				
SW-7	16-Mar-09									0.070J	0.29J				
SW-7	2-Dec-09														
SW-7	13-May-10										0.61J				
SW-7	26-Oct-10														
SW-7	18-Mar-11										0.52J				
SW-8	7-Nov-08										0.12J	0.20J			
SW-8	16-Mar-08														
SW-8	2-Dec-09														
SW-8	11-May-10														
SW-8	26-Oct-10														
SW-8	18-Mar-11														

Notes:
All units are in micrograms per liter (parts per billion)
- Concentration exceeds NC 2B Surface Water Standards for Class C Waters
- Indicates result below detection limits
* - Human Health 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)

Table 4
Statistically Significant Constituents Over Background
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

WELL	MARCH 2011 PARAMETERS STATISTICALLY OVER BACKGROUND	MARCH 2011 PARAMETERS EXCEEDING NC2L STANDARD
MW-11	Designated Shallow Background Well	**Vanadium***
MW-11d	Designated Deep Background Well	**Vanadium***
MW-5R	p-Dichlorobenzene	None
MW-6	Cobalt, Benzene, p-Dichlorobenzene, Vinyl Chloride	Cobalt*, **Thallium***, Benzene, Vinyl Chloride
MW-6d	None	**Thallium***, **Vanadium***
MW-7	Cobalt, Vinyl Chloride	Cobalt*, **Thallium***, **Vanadium*,** Benzene, Vinyl Chloride
MW-8	cis-1,2-Dichloroethene	**Vanadium***
MW-8d	None	**Vanadium***
MW-9	Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Vinyl Chloride	**Cobalt***, **Thallium***, Benzene, p-Dichlorobenzene, 1,1-Dichloroethane, **1,2-Dichloroethane, 1,2-Dichloropropane**, Vinyl Chloride
MW-10	Mercury, Benzene, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene	**Cobalt***, **Thallium***, Benzene, Tetrachloroethene, Vinyl Chloride
MW-10d	None	None
MW-22	Cadmium, Cobalt	Cadmium, Cobalt*, **Vanadium***
MW-23	None	**Vanadium***
MW-23d	None	**Vanadium***
MW-24	Chloroform	**Vanadium***
MW-27	ABANDONED	ABANDONED
MW-28	None	**Cobalt***, **Vanadium***
MW-28d	None	**Vanadium***
MW-29d	None	**Vanadium***
MW-30	Chromium	Chromium, **Cobalt***, Vanadium*
MW-31	Chromium	Chromium, **Vanadium***
MW-31d	Chloroform	**Antimony***, **Thallium***, **Vanadium***
MW-32	None	**Cobalt***, **Vanadium***
TB-1a	None	**Cobalt***, **Vanadium***
TB-1a deep	Chromium, Chloroform	**Antimony***, Chromium, **Thallium***, **Vanadium***
MW-33	Chromium	Chromium, **Cobalt***, **Thallium***, Vanadium*
MW-34	1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene	Chromium, **Cobalt***, Vanadium*, 1,1-Dichloroethane, Methylene Chloride, Tetrachloroethene, Trichloroethene
MW-34d	None	**Vanadium***
MW-35	None	**Cobalt***, **Vanadium***
MW-36	Chromium, p-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene,	Chromium, **Cobalt***, **Thallium***, **Vanadium***, 1,1-Dichloroethenane, **Vinyl Chloride**
MW-36d	Chromium, Copper, Vanadium, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Methylene Chloride, Tetrachloroethene, Trichloroethene	Chromium, **Cobalt***, Vanadium*, 1,1-Dichloroethane, Tetrachloroethene

Notes:
* - Groundwater Protection Standard
Bold - Indicates a J value detection in which the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Limit (SWSL)
MW-27 was abandoned on November 24, 2008 in accordance with 15A NCAC 2C .0113
MW-28, -28d, -33, -34, 34d, and -35 are sampled semi-annually during the spring sampling event

Table 5
Geochemical Data
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	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		<0.01		26	<0.2	<1	<1	<25	<1	<10	
MW-11	11-Mar-09	102.5	5.34	7.16	<2	<25	<7.2	<20	<20	3.38	0.719	0.543	32.2		<0.3		<0.05		158	0.21	<1	<1	<25	<1	<10	
MW-11	3-Dec-09	246.0	5.79	6.38	2.00	92	<7.2	<20	<20	2.92	0.662	0.343J	22.5		0.381		<0.05		53	<0.2	<1	<1	<25	<1	<10	
MW-11	12-May-10	154.2	5.85	5.46	<2	23	4	<2	<2	4.20J	0.089J	2.2	27		3.80J		<0.1		83.1	0.12	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-11	26-Oct-10	65.4	5.90	6.44	<2	18	10.3	<2	<2	4.10J	0.032J	1.3	37		2.10J		<0.1		99.9	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-11	17-Mar-11	211.2	5.21	8.02	<2	17	0.52J	<2	<2	5B	0.6J	0.53J	32		2.1J		<0.1		67.6	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	
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																						
MW-11d	16-Mar-09	173.6	5.76	5.85																						

Table 5
Geochemical Data
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	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				4,500			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				1,600			5.2					1.7				79.2							
MW-5	12-Apr-02	43	5.54				2,400			3.3					4.1				44	3.7						3.7
MW-5	5-Nov-02	65	5.72				1,500			8.7	0.34	1.2			4.7				244							
MW-5	17-Apr-03	-138	6.08	0.79			6,600			13		13.7			4.1				9							
MW-5	4-Nov-03	-142	5.60	0.14			3,200			19		1474							2055	18.5						18.5
MW-5R	14-Apr-04	-35	6.30	1.92			4,040			8.19		13.8			0.444		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		<0.01		211	<0.2	<1	<1	<25	<1	<10	1.6
MW-5R	11-Mar-09	61	5.73	0.31	<2	<25	<7.2	<20	<20	1.6	11.9	1.23	113		6.61		<0.05		141	<0.2	<1	<1	<25	<1	<10	2.1
MW-5R	3-Dec-09	272	5.78	0.99	<2	16	<7.2	<20	<20	1.34	12.6	2.26	61.9		7.29		<0.05		106	<0.2	<1	<1	<25	<1	<10	2.7
MW-5R	12-May-10	76	6.42	1.82	<2	<10	1	<2	<2	4.80J	0.54J	2.6	150		9.70J		<0.1		169	0.039J	<0.5	<0.5	<0.5	<0.5	<0.5	2.6
MW-5R	25-Oct-10	-64	6.34	1.05	<2	3.1J	9.72	<2	<2	3.90J	0.075J	0.93J	300		8.60J		<0.01		206	0.097	<0.5	<0.5	<0.5	<0.5	<0.5	4.2
MW-5R	16-Mar-11	142	5.94	1.89	<2	<10	1.60	<2	<2	3.8JB	0.53J	0.92J	250 D		8.3J		<0.1		164	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	2.7
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				1,500			11	0.36	2.1			0.74				83							
MW-6	17-Apr-03	234	5.79	0.59			2,400			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			1,450			190		16.6			2.2				330							
MW-6	20-May-08	115	5.94	2.41	<4	78	2,740	<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	1,190	<200	<200	231	<0.3	30.2	750		2.51J		<0.01		541	0.59	<1	<1	<25	<1	<10	1.9
MW-6	11-Mar-09	59	5.81	0.46	3	86	1,810	<200	<200	166	0.155J	22.3	476		8.4		<0.05		387	1.16	<1	<1	<25	<1	<10	3.9
MW-6	3-Dec-09	90	6.23	1.44	2	72	1,560	<200	<200	175	<0.3	19.4	507		8.66		<0.05		326	2.12	<1	<1	<25	<1	<10	2.3
MW-6	12-May-10	91	6.24	1.87	<2	130	918	<2	<2	210	<0.1	30	610		15J		<0.1		543	3.75	<0.5	<0.5	<0.5	<0.5	<0.5	3.3
MW-6	26-Oct-10	-110.9	6.50	2.36	<2	120	800	<2	<2	210	0.23J	26	930		13J		<0.1		692	1.20	34	4.3	60	54	<0.5	4.3
MW-6	16-Mar-11	25.3	5.89	2.48	<2	75	899	<2	<2	140BD	0.029J	14	500D		6.3J		<0.1		349D	0.77	<0.5	<0.5	<0.5	18	<0.5	2.2

Table 5
Geochemical Data
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	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-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			0.912				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		<0.01		101	<0.2	<1	<1	<25	<1	<10	1.4
MW-8	11-Mar-09	27	5.65	0.31	<2	<25	264	<100	<100	6.27	0.119J	0.752	68.7		0.793		<0.05		88	0.78	<1	<1	<25	<1	<10	1.1
MW-8	3-Dec-09	83	6.11	1.28	<2	20	647	<200	<200	6.09	0.256	0.749	63.5		1.07		<0.05		*	0.88	<1	<1	<25	<1	<10	2.1
MW-8	12-May-10	88	6.14	1.09	<2	9.6J	497	<2	<2	7.9	0.66J	1.3	73		2.2J		<0.1		127	0.793	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
MW-8	25-Oct-10	-72	5.84	1.01	<2	14	572	<2	<2	16	0.3J	0.57J	72		3.3J		<0.1		139	0.068	<0.5	<0.5	1.7	<0.5	<0.5	4.9
MW-8	16-Mar-11	208	5.49	1.28	<2	<10	600	<2	<2	9.5B	0.12J	<1	68		2.8J		<0.1		148	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
MW-9	3-Dec-98		6.27							15																
MW-9	20-Dec-00	102	4.79				3,340			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				2,700			24					0.38				123	2.5						2.5
MW-9	12-Apr-02	77	6.11				1,200			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			1,900			36		30.3			0.42				44	6.3						6.3
MW-9	4-Nov-03	-110	5.76	0.14			1,800			53		14.2			0.46				312	1.48						1.48
MW-9	14-Apr-04	58	6.33	0.81			3,500			92.5		13.3			0.386				299.2	ND						ND
MW-9	20-May-08	-97	6.28	1.39	7	10	2,980	<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	1,910	<200	<200	18.9	<0.3	3.36	263		<0.3		<0.01		264	15.4	<1	<1	<25	<1	<10	
MW-9	11-Mar-09	-9	6.03	2.07	<2	46	1,730	<200	<200	20.1	<0.3	4.56	262		0.608		<0.05		233	17.6	<1	0.4J	<25	0.4J	<10	
MW-9	3-Dec-09	-7	6.38	1.52	<2	44	1,740	<200	<200	20.5	<0.3	2.97	233		4.31		<0.05		167	14.8	<1	<1	<25	<1	<10	
MW-9	12-May-10	38	6.19	2.20	<2	66	1,150	<2	1J	27	0.076J	8.4	200		2.20J		<0.1		307	16.5	<0.5	<0.5	<0.5	2.9	<0.5	
MW-9	26-Oct-10	-71	6.30	3.54	<2	53	1,330	<2	<2	21	0.053J	3.0	270		2.60J		<0.1		348	8.5	2.3	<0.5	<0.5	2.5	<0.5	
MW-9	17-Mar-11	2	5.78	2.29	3	68	438	2.27	<2	18B	0.1J	5.8	220D		2.7J		<0.1		231D	7.7	<0.5	<0.5	<0.5	1.8	<0.5	

Table 5
Geochemical Data
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	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-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			2,400			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	1,950	<200	<200	3.77	0.162J	1.12	42		0.617		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	5,890	<200	<200	3.71	<0.3	1.31	96		<0.3		<0.01		370	1.79	1.4	<1	<25	<1	<10	
MW-10	11-Mar-09	97.8	5.34	2.56	<2	<25	2,310	<200	<200	3.04	<0.3	3.07	105		0.649		<0.05		339	1.23	<1	<1	<25	0.3J	<10	
MW-10	3-Dec-09	146.2	6.09	2.17	3	28	3,110	<200	<200	2.69	<0.3	1.02	112		0.624		<0.05		286	0.95	<1	<1	<25	<1	<10	
MW-10	12-May-10	80.2	5.74	2.21	3.2	25	1,830	<2	<2	5.6	<0.1	5.5	140		1.70J		<0.1		407	2.84	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-10	25-Oct-10	-39.2	5.66	2.77	2.4	31	2,620	<2	<2	4.2J	<0.1	1.5	130		2.20J		<0.1		583	0.38	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-10	17-Mar-11	119.7	5.29	3.18	<2	<10	2,000	<2	<2	4.3JB	0.039J	2.7	130		2.4J		<0.1		399D	0.26	<0.5	<0.5	<0.5	<0.5	<0.5	
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				4,410			8.25	0.08	2.5							101							
MW-24	16-Apr-01	93	5.20				2,500			4.2	0.28	5			0.59				121	1.18						1.18
MW-24	3-Dec-01	103	5.83				2,100			2.9									52.8	0.3						0.3
MW-24	12-Apr-02	17	5.59				1,800			1.5									92	0.6						0.6
MW-24	5-Nov-02	62	5.76				2,200			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
March 2011 Semi-Annual Sampling Event
North Wake Unlined Landfill

Monitor Well	Sample Date	ORP (mV)	pH	Dissolved Oxygen	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				2,470			6.6	0.09	3.3							62							
TB-1a	17-Apr-01	78	5.63				1,500			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			0.577				101.2							
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		<0.01		106	1.59	<1	<1	<25	<1	<10	
TB-1a	11-Mar-09	-44	5.91	1.98	<2	<25	<7.2	<20	<20	12.8	0.209J	1.05	53.4		10.5		<0.05		114	3.06	<1	<1	<25	<1	<10	
TB-1a	3-Dec-09	88	6.24	1.97	<2	20	<7.2	<20	<20	12.7	0.456	1.22	61.6		11.9		<0.05		88	4.7	<1	<1	<25	<1	<10	
MW-36	12-May-10	161	5.87	1.51	<2	36	3	<2	<2	8.1	2.30J	2.9	74		5.30J		<0.1		162	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-36	26-Oct-10	-18	5.94	4.01	<2	51	307	1.52J	<2	7.2	0.19J	1.3	78		4.90J		<0.1		175	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-36	17-Mar-11	99	5.45	2.36	<2	38	44	<2	<2	7.2B	0.67J	1.5	84		4.6J		<0.1		140	<0.25	<0.5	<0.5	<0.5	<0.5	<0.5	

Notes:

MW-11 & MW-11d are background wells for the site

All units are in milligrams per liter (parts per million), unless otherwise noted.

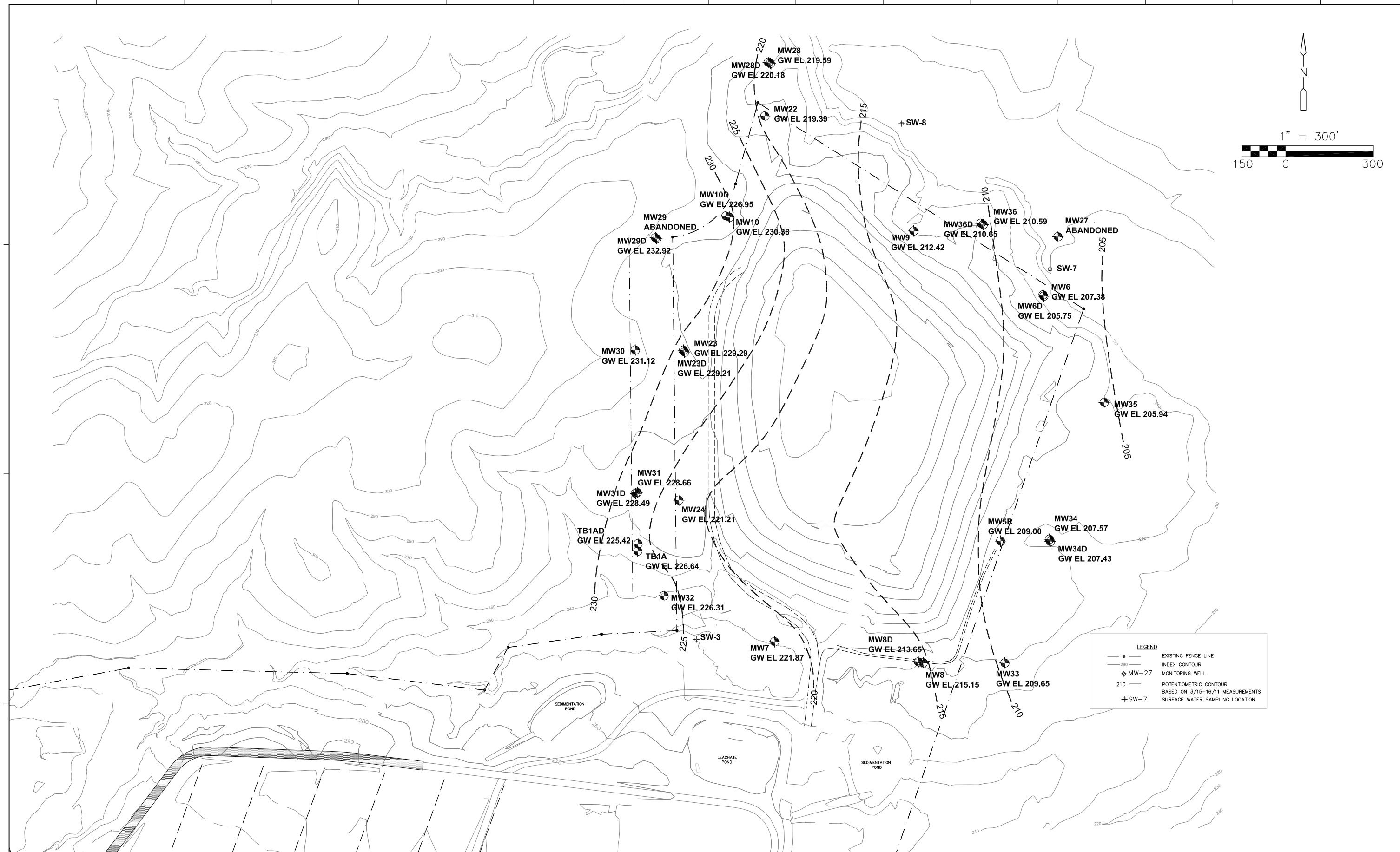
- Blank Cells Indicate No Data Collected

J - Indicates the analytical result is an estimated concentration between the Method Detection Limit and the Solid Waste Section Reporting Limit

B - Indicates that the amount detected in the method blank was greater than the Method Detection Limit

D - Analyzed at dilution.

* Carbon dioxide samples from MW-8 were not analyzed during the December 2009 sampling event due to laboratory oversight



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. WEISPFENNING
DRAWN BY: J. KILLINGSWORTH
SHEET CHK'D BY: M. COLONE
CROSS CHK'D BY:
APPROVED BY:
DATE: APRIL 2011

CDM Camp Dresser & McKee
environmental services
offices worldwide
5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
Tel: (919) 787-5620 Fax: (919) 781-5730

WAKE COUNTY
NORTH CAROLINA

NORTH WAKE UNLINED LANDFILL

POTENTIOMETRIC CONTOUR MAP

PROJECT NO. 6172-81923
FILE NAME: NW-Unld-S-11.dwg

FIGURE
1

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, March 31, 2011

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake Unlined Landfill
ENCO Workorder: C102818

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, March 17, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 260.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-MW5R **Lab ID: C102818-01** **Sampled: 03/16/11 16:00** **Received: 03/17/11 14:25**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/13/11			03/17/11	15:46	3/18/2011	01:40
EPA 310.2	03/30/11			03/28/11	01:39	3/28/2011	03:01
EPA 353.2	03/18/11	16:00		03/17/11	16:57	3/17/2011	18:45
EPA 353.2	04/13/11			03/22/11	05:16	3/22/2011	09:48
EPA 353.2	04/13/11			03/24/11	11:16	3/24/2011	11:50
EPA 6010C	09/12/11			03/18/11	10:47	3/22/2011	11:35
EPA 6020A	09/12/11			03/19/11	14:24	3/21/2011	11:43
EPA 7470A	04/13/11			03/21/11	10:26	3/21/2011	16:00
EPA 8081B	03/23/11		05/01/11	03/22/11	10:40	3/23/2011	13:43
EPA 8260B	03/30/11			03/23/11	07:46	3/23/2011	16:17
RSK-175	03/23/11			03/21/11	10:14	3/22/2011	11:23
SM 5210B	03/18/11	16:00		03/17/11	15:05	3/17/2011	15:05
SM 5220D	04/13/11			03/23/11	12:02	3/23/2011	14:54
SM18 3500-Fe D	03/16/11	16:14		03/22/11	16:05	3/22/2011	16:28
SM18 4500-S D	03/23/11			03/22/11	11:14	3/22/2011	11:35
SM18 5310B	04/13/11			03/25/11	09:00	3/25/2011	14:47
VGC-13	03/30/11			03/18/11	13:00	3/19/2011	10:05

Client ID: 9209-MW6 **Lab ID: C102818-02** **Sampled: 03/16/11 14:30** **Received: 03/17/11 14:25**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/13/11			03/17/11	15:46	3/18/2011	01:58
EPA 310.2	03/30/11			03/28/11	01:39	3/28/2011	03:01
EPA 353.2	03/18/11	14:30		03/17/11	16:57	3/17/2011	18:49
EPA 353.2	04/13/11			03/22/11	05:16	3/22/2011	09:50
EPA 353.2	04/13/11			03/24/11	11:16	3/24/2011	11:50
EPA 6010C	09/12/11			03/18/11	10:47	3/22/2011	11:37
EPA 6020A	09/12/11			03/19/11	14:24	3/21/2011	12:02
EPA 7470A	04/13/11			03/21/11	10:26	3/21/2011	16:04
EPA 8081B	03/23/11		05/01/11	03/22/11	10:40	3/23/2011	14:00
EPA 8260B	03/30/11			03/23/11	07:46	3/23/2011	16:46
EPA 8270D	03/23/11		05/02/11	03/23/11	07:07	3/29/2011	19:14
RSK-175	03/23/11			03/21/11	10:14	3/22/2011	12:30
SM 5210B	03/18/11	14:30		03/17/11	15:05	3/17/2011	15:05
SM 5220D	04/13/11			03/23/11	12:02	3/23/2011	14:54
SM18 3500-Fe D	03/16/11	14:44		03/22/11	16:05	3/22/2011	16:28
SM18 4500-S D	03/23/11			03/22/11	11:14	3/22/2011	11:35
SM18 5310B	04/13/11			03/25/11	09:00	3/25/2011	14:47
VGC-13	03/30/11			03/18/11	13:00	3/19/2011	11:08

Client ID: 9209-MW6 **Lab ID: C102818-02RE1** **Sampled: 03/16/11 14:30** **Received: 03/17/11 14:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/13/11		03/17/11	15:46	3/18/2011	02:15
RSK-175	03/23/11		03/21/11	10:14	3/22/2011	14:08

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Client ID: 9209-MW6d	Lab ID: C102818-03	Sampled: 03/16/11 15:10	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011	11:40
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011	12:05
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011	16:07
EPA 8260B	03/30/11		03/23/11	07:46	3/23/2011	17:16

Client ID: 9209-MW7	Lab ID: C102818-04	Sampled: 03/16/11 17:35	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011	11:42
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011	12:16
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011	16:16
EPA 8260B	03/30/11		03/23/11	07:46	3/23/2011	17:46
EPA 8270D	03/23/11	05/02/11	03/23/11	07:07	3/29/2011	19:39

Client ID: 9209-MW8	Lab ID: C102818-05	Sampled: 03/16/11 17:00	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/13/11		03/17/11	15:46	3/18/2011	02:33
EPA 310.2	03/30/11		03/28/11	01:39	3/28/2011	03:02
EPA 353.2	03/18/11	17:00	03/17/11	16:57	3/17/2011	18:50
EPA 353.2	04/13/11		03/22/11	05:16	3/22/2011	09:53
EPA 353.2	04/13/11		03/24/11	11:16	3/24/2011	11:50
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011	11:18
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011	12:29
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011	16:19
EPA 8260B	03/30/11		03/23/11	07:46	3/23/2011	18:15
RSK-175	03/23/11		03/21/11	10:14	3/22/2011	12:34
SM 5210B	03/18/11	17:00	03/17/11	15:05	3/17/2011	15:05
SM 5220D	04/13/11		03/23/11	12:02	3/23/2011	14:54
SM18 3500-Fe D	03/16/11	17:14	03/22/11	16:05	3/22/2011	16:28
SM18 4500-S D	03/23/11		03/22/11	11:14	3/22/2011	11:35
SM18 5310B	04/13/11		03/25/11	09:00	3/25/2011	14:47
VGC-13	03/30/11		03/18/11	13:00	3/19/2011	12:10

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Client ID: 9209-MW9	Lab ID: C102818-06	Sampled: 03/17/11 08:00	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/14/11			03/17/11	15:46	3/18/2011	02:51
EPA 310.2	03/31/11			03/28/11	01:39	3/28/2011	03:05
EPA 353.2	03/19/11	08:00		03/17/11	16:57	3/17/2011	18:52
EPA 353.2	04/14/11			03/22/11	05:16	3/22/2011	09:55
EPA 353.2	12/01/13			03/24/11	11:16	3/24/2011	11:50
EPA 6010C	09/13/11			03/18/11	10:47	3/22/2011	11:44
EPA 6020A	09/13/11			03/19/11	14:24	3/21/2011	12:33
EPA 7470A	04/14/11			03/21/11	10:26	3/21/2011	16:22
EPA 8081B	03/24/11		05/01/11	03/22/11	10:40	3/23/2011	14:16
EPA 8260B	03/31/11			03/23/11	07:46	3/23/2011	18:45
EPA 8270D	03/24/11		05/02/11	03/23/11	07:07	3/29/2011	20:04
RSK-175	03/24/11			03/21/11	10:14	3/22/2011	12:38
SM 5210B	03/19/11	08:00		03/18/11	15:34	3/18/2011	15:34
SM 5220D	04/14/11			03/23/11	12:02	3/23/2011	14:54
SM18 3500-Fe D	03/17/11	08:14		03/22/11	16:05	3/22/2011	16:28
SM18 4500-S D	03/24/11			03/22/11	11:14	3/22/2011	11:35
SM18 5310B	04/14/11			03/25/11	09:00	3/25/2011	14:47
VGC-13	03/31/11			03/18/11	13:00	3/19/2011	13:12

Client ID: 9209-MW9	Lab ID: C102818-06RE1	Sampled: 03/17/11 08:00	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
RSK-175	03/24/11	03/21/11	10:14	3/22/2011	14:12

Client ID: 9209-MW10	Lab ID: C102818-07	Sampled: 03/17/11 09:45	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/14/11			03/17/11	15:46	3/18/2011	03:08
EPA 310.2	03/31/11			03/28/11	01:39	3/28/2011	03:06
EPA 353.2	03/19/11	09:45		03/17/11	16:57	3/17/2011	18:56
EPA 353.2	04/14/11			03/22/11	05:19	3/22/2011	10:40
EPA 353.2	12/01/13			03/24/11	11:16	3/24/2011	11:50
EPA 6010C	09/13/11			03/18/11	10:47	3/22/2011	11:47
EPA 6020A	09/13/11			03/19/11	14:24	3/21/2011	12:37
EPA 7470A	04/14/11			03/21/11	10:26	3/21/2011	16:25
EPA 8260B	03/31/11			03/23/11	07:46	3/23/2011	19:14
EPA 8270D	03/24/11		05/02/11	03/23/11	07:07	3/29/2011	20:29
RSK-175	03/24/11			03/21/11	10:14	3/22/2011	12:41
SM 5210B	03/19/11	09:45		03/18/11	15:34	3/18/2011	15:34
SM 5220D	04/14/11			03/23/11	12:02	3/23/2011	14:54
SM18 3500-Fe D	03/17/11	09:59		03/22/11	16:05	3/22/2011	16:28
SM18 4500-S D	03/24/11			03/22/11	11:14	3/22/2011	11:35
SM18 5310B	04/14/11			03/25/11	09:00	3/25/2011	14:47
VGC-13	03/31/11			03/18/11	13:00	3/19/2011	14:15

Client ID: 9209-MW10	Lab ID: C102818-07RE1	Sampled: 03/17/11 09:45	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
RSK-175	03/24/11	03/21/11	10:14	3/22/2011	14:16

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Client ID: 9209-MW11	Lab ID: C102818-08	Sampled: 03/17/11 07:20	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	04/14/11		03/17/11	15:46	3/18/2011 03:26
EPA 310.2	03/31/11		03/28/11	01:39	3/28/2011 03:07
EPA 353.2	03/19/11 07:20		03/17/11	16:57	3/17/2011 18:57
EPA 353.2	04/14/11		03/22/11	05:19	3/22/2011 10:42
EPA 353.2	12/01/13		03/24/11	11:16	3/24/2011 11:50
EPA 6010C	09/13/11		03/18/11	10:47	3/22/2011 11:49
EPA 6020A	09/13/11		03/19/11	14:24	3/21/2011 12:41
EPA 7470A	04/14/11		03/21/11	10:26	3/21/2011 16:28
EPA 8081B	03/24/11	05/01/11	03/22/11	10:40	3/23/2011 14:33
EPA 8151A	03/24/11	05/02/11	03/23/11	16:00	3/25/2011 04:43
EPA 8260B	03/31/11		03/23/11	13:23	3/24/2011 01:06
EPA 8270D	03/24/11	05/02/11	03/23/11	07:07	3/29/2011 20:55
RSK-175	03/24/11		03/21/11	10:14	3/22/2011 12:45
SM 5210B	03/19/11 07:20		03/18/11	15:34	3/18/2011 15:34
SM 5220D	04/14/11		03/23/11	12:02	3/23/2011 14:54
SM18 3500-Fe D	03/17/11 07:34		03/22/11	16:05	3/22/2011 16:28
SM18 4500-S D	03/24/11		03/22/11	11:14	3/22/2011 11:35
SM18 5310B	04/14/11		03/25/11	09:00	3/25/2011 14:47
VGC-13	03/31/11		03/18/11	13:00	3/19/2011 15:17

Client ID: 9209-MW31	Lab ID: C102818-09	Sampled: 03/17/11 11:00	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/11		03/18/11	10:47	3/22/2011 11:57
EPA 6020A	09/13/11		03/19/11	14:24	3/21/2011 12:44
EPA 7470A	04/14/11		03/21/11	10:26	3/21/2011 16:31
EPA 8081B	03/24/11	05/01/11	03/22/11	10:40	3/23/2011 15:11
EPA 8260B	03/31/11		03/23/11	13:23	3/24/2011 01:35

Client ID: 9209-MW31d	Lab ID: C102818-10	Sampled: 03/16/11 10:10	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011 11:59
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011 12:48
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011 15:45
EPA 8260B	03/30/11		03/23/11	13:23	3/24/2011 02:05
EPA 8270D	03/23/11	05/02/11	03/23/11	07:07	3/29/2011 21:20

Client ID: 9209-MW32	Lab ID: C102818-11	Sampled: 03/17/11 11:25	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/11		03/18/11	10:47	3/22/2011 12:01
EPA 6020A	09/13/11		03/19/11	14:24	3/21/2011 12:52
EPA 7470A	04/14/11		03/21/11	10:26	3/21/2011 16:34
EPA 8260B	03/31/11		03/23/11	13:23	3/24/2011 02:34

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Client ID: 9209-TB1a	Lab ID: C102818-12	Sampled: 03/17/11 11:10	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/11		03/18/11	10:47	3/22/2011 12:03
EPA 6020A	09/13/11		03/19/11	14:24	3/21/2011 12:56
EPA 7470A	04/14/11		03/21/11	10:26	3/21/2011 16:37
EPA 8081B	03/24/11	05/01/11	03/22/11	10:40	3/23/2011 15:24
EPA 8260B	03/31/11		03/23/11	13:23	3/24/2011 03:03

Client ID: 9209-TB1ad	Lab ID: C102818-13	Sampled: 03/16/11 11:00	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011 12:05
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011 12:59
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011 16:40
EPA 8260B	03/30/11		03/23/11	13:23	3/24/2011 03:33

Client ID: 9209-MW33	Lab ID: C102818-14	Sampled: 03/16/11 15:30	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011 12:07
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011 13:03
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011 16:43
EPA 8081B	03/23/11	05/01/11	03/22/11	10:40	3/23/2011 15:37
EPA 8260B	03/30/11		03/23/11	13:23	3/24/2011 04:02

Client ID: 9209-MW34	Lab ID: C102818-15	Sampled: 03/17/11 10:35	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/11		03/18/11	10:47	3/22/2011 12:09
EPA 6020A	09/13/11		03/19/11	14:24	3/21/2011 13:18
EPA 7470A	04/14/11		03/21/11	10:26	3/21/2011 16:52
EPA 8260B	03/31/11		03/23/11	13:23	3/24/2011 04:31

Client ID: 9209-MW34d	Lab ID: C102818-16	Sampled: 03/16/11 08:40	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/12/11		03/18/11	10:47	3/22/2011 12:11
EPA 6020A	09/12/11		03/19/11	14:24	3/21/2011 13:21
EPA 7470A	04/13/11		03/21/11	10:26	3/21/2011 16:55
EPA 8260B	03/30/11		03/23/11	13:23	3/24/2011 05:00
EPA 8270D	03/23/11	05/02/11	03/23/11	07:07	3/29/2011 21:45

Client ID: 9209-MW35	Lab ID: C102818-17	Sampled: 03/17/11 10:25	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	09/13/11		03/18/11	10:47	3/22/2011 12:13
EPA 6020A	09/13/11		03/19/11	14:24	3/21/2011 13:25
EPA 7470A	04/14/11		03/21/11	10:26	3/21/2011 16:58
EPA 8260B	03/31/11		03/23/11	13:23	3/24/2011 05:30

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Client ID: 9209-MW36	Lab ID: C102818-18	Sampled: 03/17/11 08:30	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	04/14/11			03/17/11	15:46	3/18/2011	03:44
EPA 310.2	03/31/11			03/28/11	17:16	3/28/2011	21:22
EPA 353.2	03/19/11	08:30		03/17/11	16:57	3/17/2011	18:58
EPA 353.2	04/14/11			03/22/11	05:19	3/22/2011	10:45
EPA 353.2	12/01/13			03/24/11	11:16	3/24/2011	11:50
EPA 6010C	09/13/11			03/18/11	10:47	3/22/2011	12:15
EPA 6020A	09/13/11			03/19/11	14:24	3/21/2011	13:29
EPA 7470A	04/14/11			03/21/11	10:26	3/21/2011	17:01
EPA 8081B	03/24/11		05/01/11	03/22/11	10:40	3/23/2011	15:51
EPA 8260B	03/31/11			03/23/11	13:23	3/24/2011	05:59
EPA 8270D	03/24/11		05/02/11	03/23/11	07:07	3/29/2011	22:10
RSK-175	03/24/11			03/21/11	10:14	3/22/2011	12:49
SM 5210B	03/19/11	08:30		03/18/11	15:34	3/18/2011	15:34
SM 5220D	04/14/11			03/23/11	12:02	3/23/2011	14:54
SM18 3500-Fe D	03/17/11	08:44		03/22/11	16:05	3/22/2011	16:28
SM18 4500-S D	03/24/11			03/22/11	11:14	3/22/2011	11:35
SM18 5310B	04/14/11			03/25/11	09:00	3/25/2011	14:47
VGC-13	03/31/11			03/21/11	08:22	3/21/2011	17:29

Client ID: 9209-TripBlank	Lab ID: C102818-19	Sampled: 03/16/11 16:00	Received: 03/17/11 14:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	03/30/11		03/23/11	13:23	3/24/2011	06:28

Client ID: 9209-MW8d	Lab ID: C103164-01	Sampled: 03/18/11 11:40	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:38
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	12:54
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:32
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	14:42
EPA 8260B	04/01/11		03/24/11	08:21	3/24/2011	18:59

Client ID: 9209-MW10d	Lab ID: C103164-02	Sampled: 03/18/11 11:55	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:40
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	12:56
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:36
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	14:46
EPA 8260B	04/01/11		03/24/11	08:21	3/24/2011	19:29
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/29/2011	22:35

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Client ID: 9209-MW11d	Lab ID: C103164-03	Sampled: 03/18/11 07:50	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:42
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	12:58
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:40
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	14:48
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	16:17
EPA 8151A	03/25/11	05/02/11	03/23/11	16:00	3/25/2011	05:31
EPA 8260B	04/01/11		03/24/11	08:21	3/24/2011	19:58
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/29/2011	23:00

Client ID: 9209-MW22	Lab ID: C103164-04	Sampled: 03/18/11 08:10	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:44
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:00
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:43
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	14:52
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	16:30
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	04:44
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/29/2011	23:25

Client ID: 9209-MW23	Lab ID: C103164-05	Sampled: 03/18/11 12:05	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:46
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:02
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:47
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	14:55
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	05:13
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/29/2011	23:51

Client ID: 9209-MW23d	Lab ID: C103164-06	Sampled: 03/17/11 13:20	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/13/11		03/21/11	10:36	3/23/2011	10:48
EPA 6010C	09/13/11		03/23/11	14:38	3/24/2011	13:04
EPA 6020A	09/13/11		03/22/11	10:04	3/25/2011	11:51
EPA 7470A	04/14/11		03/22/11	09:58	3/22/2011	14:58
EPA 8260B	03/31/11		03/24/11	12:34	3/25/2011	05:42
EPA 8270D	03/24/11	05/02/11	03/23/11	07:07	3/30/2011	00:15

Client ID: 9209-MW24	Lab ID: C103164-07	Sampled: 03/18/11 12:15	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:50
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:12
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:54
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:01
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	06:11
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/30/2011	00:40

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Client ID: 9209-MW28	Lab ID: C103164-08	Sampled: 03/18/11 11:00	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:52
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:14
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	11:58
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:04
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	16:44
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	06:40

Client ID: 9209-MW28d	Lab ID: C103164-09	Sampled: 03/18/11 11:10	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:54
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:16
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	12:09
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:12
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	07:09
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/30/2011	01:05

Client ID: 9209-MW29d	Lab ID: C103164-10	Sampled: 03/18/11 10:45	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	10:56
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:18
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	12:13
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:15
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	17:00
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	07:39
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/30/2011	01:31

Client ID: 9209-MW30	Lab ID: C103164-11	Sampled: 03/18/11 10:00	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	11:05
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:20
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	12:17
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:18
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	17:14
EPA 8260B	04/01/11		03/25/11	12:16	3/25/2011	16:18

Client ID: 9209-MW36d	Lab ID: C103164-12	Sampled: 03/18/11 09:15	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	11:06
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:22
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	12:21
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:21
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	17:29
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	08:37
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/30/2011	06:28

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Client ID: 9209-DUP	Lab ID: C103164-13	Sampled: 03/18/11 07:00	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	11:08
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:24
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	12:24
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:24
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	17:45
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	09:06
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/30/2011	06:53

Client ID: 9209-EQBlank	Lab ID: C103164-14	Sampled: 03/18/11 07:30	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	09/14/11		03/21/11	10:36	3/23/2011	11:11
EPA 6010C	09/14/11		03/23/11	14:38	3/24/2011	13:26
EPA 6020A	09/14/11		03/22/11	10:04	3/25/2011	12:28
EPA 7470A	04/15/11		03/22/11	09:58	3/22/2011	15:28
EPA 8081B	03/25/11	05/01/11	03/22/11	10:40	3/23/2011	18:01
EPA 8270D	03/25/11	05/02/11	03/23/11	07:07	3/30/2011	07:18

Client ID: 9209-EQBlank	Lab ID: C103164-14RE1	Sampled: 03/18/11 07:30	Received: 03/18/11 13:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	04/01/11		03/24/11	12:34	3/25/2011	16:48

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-MW5R **Lab ID: C102818-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	2.1		1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	95.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	164000		1	2000	2500	NE	ug/L	RSK-175	
Chloride	3800	JB	1	47	5000	NE	ug/L	EPA 300.0	J-01
Chromium - Total	4.62	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Methane	1.60		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	3.39	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	530	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	550		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	17	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	8300	J	1	20	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.267	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	250000	D	5	60000	75000	NE	ug/L	EPA 310.2	
Total Organic Carbon	920	J	1	270	1000	NE	ug/L	SM18 5310B	
Zinc - Total	6.90	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW6 **Lab ID: C102818-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.42	J	1	0.080	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.6		1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	365		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.4		1	0.68	1.0	1	ug/L	EPA 8260B	
Chemical Oxygen Demand	75000		1	10000	10000	NE	ug/L	SM 5220D	
Chlorobenzene	1.3	J	1	0.74	1.0	3	ug/L	EPA 8260B	
Chromium - Total	7.08	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.3	J	1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	57.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.66	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Methane	899		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	11.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate/Nitrite as N	29	J	1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	11	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Propionic Acid	18000		1	180	500	NE	ug/L	VGC-13	
Selenium - Total	2.68	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	3.18	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	6300	J	1	20	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.741	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	500000	D	10	120000	150000	NE	ug/L	EPA 310.2	
Total Organic Carbon	14000		1	270	1000	NE	ug/L	SM18 5310B	
Vinyl chloride	1.8		1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	51.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW6 **Lab ID: C102818-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	349000	D	10	20000	25000	NE	ug/L	RSK-175	
Chloride	140000	BD	4	190	20000	NE	ug/L	EPA 300.0	QB-01

Client ID: 9209-MW6d **Lab ID: C102818-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

Client ID: 9209-MW6d **Lab ID: C102818-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.2	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.961	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	68.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.05	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.91	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	0.91	J	1	0.56	1.0	5	ug/L	EPA 8260B	
Methylene chloride	0.49	J	1	0.14	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.428	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	3.28	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.94	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW7 **Lab ID: C102818-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.6		1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	51.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.8		1	0.68	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	1.20		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	6.76	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.74	J	1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	30.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.81	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	11.8	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.42	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	3.14	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.360	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	1.73	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	1.5		1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	11.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8 **Lab ID: C102818-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.61	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Barium - Total	41.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	148000		1	2000	2500	NE	ug/L	RSK-175	
Chloride	9500	B	1	47	5000	NE	ug/L	EPA 300.0	J-01
Chromium - Total	2.83	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	17		1	0.72	1.0	5	ug/L	EPA 8260B	
Copper - Total	1.63	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Methane	600		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	2.22	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	120	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	130		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	7.9	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Selenium - Total	0.873	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	2800	J	1	20	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.279	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	68000		1	12000	15000	NE	ug/L	EPA 310.2	
Vanadium - Total	1.65	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.42	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C102818-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	12		1	0.080	1.0	5	ug/L	EPA 8260B	
1,2-Dichloroethane	0.92	J	1	0.47	1.0	1	ug/L	EPA 8260B	
1,2-Dichloropropane	0.61	J	1	0.59	1.0	1	ug/L	EPA 8260B	
1,4-Dichlorobenzene	6.0		1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	176		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.1		1	0.68	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.241	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	2800		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	68000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	18000	B	1	47	5000	NE	ug/L	EPA 300.0	J-01
Chromium - Total	7.36	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	13		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	4.82	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.10	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Ethane	2.27		1	1.50	2.00	NE	ug/L	RSK-175	
Lead - Total	3.79	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	438		1	0.490	1.00	NE	ug/L	RSK-175	
Nitrate as N	100	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	110		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	8.4	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Propionic Acid	1800		1	180	500	NE	ug/L	VGC-13	
Selenium - Total	0.841	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	3.51	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	2700	J	1	20	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.405	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	220000	D	2	24000	30000	NE	ug/L	EPA 310.2	
Total Organic Carbon	5800		1	270	1000	NE	ug/L	SM18 5310B	
Vinyl chloride	14		1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	13.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW9 **Lab ID: C102818-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	231000	D	10	20000	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW10 **Lab ID: C102818-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	4.2	J	1	0.080	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.1		1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	34.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.3		1	0.68	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.285	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	4300	JB	1	47	5000	NE	ug/L	EPA 300.0	J-01
Chromium - Total	2.22	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	48		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.93	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.17	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.25	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.388		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Methane	2000		1	0.490	1.00	NE	ug/L	RSK-175	
Nickel - Total	2.48	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	39	J	1	25	100	10000	ug/L	EPA 353.2	

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Client ID: 9209-MW10								Lab ID: C102818-07	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Nitrate/Nitrite as N	49	J	1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	9.6	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	2400	J	1	20	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	2.5		1	0.73	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.352	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	130000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	2700		1	270	1000	NE	ug/L	SM18 5310B	
Trichloroethene	2.6		1	0.72	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	1.6		1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	14.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10								Lab ID: C102818-07RE1	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Carbon dioxide	399000	D	10	20000	25000	NE	ug/L	RSK-175	

Client ID: 9209-MW11								Lab ID: C102818-08	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	76.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	67600		1	2000	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	17000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	5000	B	1	47	5000	NE	ug/L	EPA 300.0	J-01
Chromium - Total	1.60	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.88	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Methane	0.520	J	1	0.490	1.00	NE	ug/L	RSK-175	
Nitrate as N	600	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	610		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	8.1	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	2100	J	1	20	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.265	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	32000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	530	J	1	270	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	3.51	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	24.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31								Lab ID: C102818-09	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	42.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	2.5	J	1	0.70	1.0	5	ug/L	EPA 8260B	
Chromium - Total	14.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.79	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.47	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.20	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.255	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	9.69	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	26.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW31d								Lab ID: C102818-10	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	1.19	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	20.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	28		1	0.70	1.0	5	ug/L	EPA 8260B	

Client ID: 9209-MW31d **Lab ID: C102818-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chromium - Total	9.86	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.08	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.56	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Selenium - Total	1.24	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.327	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	9.46	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	30.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW32 **Lab ID: C102818-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	21.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.145	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	4.58	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.91	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	18.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.11	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.91	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.276	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	7.49	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	29.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TB1a **Lab ID: C102818-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	32.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	2.5	J	1	0.70	1.0	5	ug/L	EPA 8260B	
Chromium - Total	2.46	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.23	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	11.6		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.68	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.14	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.849	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.332	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	7.45	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	16.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-TB1ad **Lab ID: C102818-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.19	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	14.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	31		1	0.70	1.0	5	ug/L	EPA 8260B	
Chromium - Total	16.7		1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.97	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.03	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.68	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.946	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.338	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	7.43	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW33 **Lab ID: C102818-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

Client ID: 9209-MW33 **Lab ID: C102818-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	66.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	21.1		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.46	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	14.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.04	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	7.61	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.298	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	29.0		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	45.9		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW34 **Lab ID: C102818-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	10		1	0.080	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.89	J	1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	238		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	2.19		1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	37.2		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	11		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	8.32	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	46.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	13.7		1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	11		1	0.14	1.0	1	ug/L	EPA 8260B	
Nickel - Total	24.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.47	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	2.2		1	0.73	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.254	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Trichloroethene	3.4		1	0.72	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	72.0		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	94.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW34d **Lab ID: C102818-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.7	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.351	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	33.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	9.87	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.6	J	1	0.72	1.0	5	ug/L	EPA 8260B	
Copper - Total	8.59	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.06	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	0.43	J	1	0.14	1.0	1	ug/L	EPA 8260B	
Selenium - Total	0.946	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.209	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	1.83	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	11.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW35 **Lab ID: C102818-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	52.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.536	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	5.36	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.04	J	1	1.10	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW35 **Lab ID: C102818-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Copper - Total	7.03	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.33	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.08	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.192	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	10.2	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	23.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36 **Lab ID: C102818-18**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	9.1		1	0.080	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.1		1	0.79	1.0	1	ug/L	EPA 8260B	
Barium - Total	69.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	140000		1	2000	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	38000		1	10000	10000	NE	ug/L	SM 5220D	
Chloride	7200	B	1	47	5000	NE	ug/L	EPA 300.0	J-01
Chromium - Total	10.4		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	6.3		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.66	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.60	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.28	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	43.5		1	0.490	1.00	NE	ug/L	RSK-175	
Methylene chloride	0.47	J	1	0.14	1.0	1	ug/L	EPA 8260B	
Nickel - Total	4.16	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	670	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	680		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	8.9	JB	1	1.1	100	1000	ug/L	EPA 353.2	J-01
Selenium - Total	0.962	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	4600	J	1	20	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.282	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity as CaCO3	84000		1	12000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	1500		1	270	1000	NE	ug/L	SM18 5310B	
Trichloroethene	1.7		1	0.72	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	10.7	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.80	J	1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	13.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW8d **Lab ID: C103164-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.512	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	28.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	5.85	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.41	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.19	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	5.18	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.47	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10d **Lab ID: C103164-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	2.0	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Barium - Total	3.88	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	2.16	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW10d **Lab ID: C103164-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Methylene chloride	1.0		1	0.14	1.0	1	ug/L	EPA 8260B	
Zinc - Total	4.02	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW11d **Lab ID: C103164-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.852	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	51.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.43	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.41	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.73	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	8.04	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW22 **Lab ID: C103164-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	40.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.105	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	2.21		1	0.360	1.00	1	ug/L	EPA 6010C	
Chloroform	0.79	J	1	0.70	1.0	5	ug/L	EPA 8260B	
Chromium - Total	4.10	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	14.8		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.71	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.69	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	7.49	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	4.89	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	16.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23 **Lab ID: C103164-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	43.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	5.52	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.92	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.42	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.64	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	11.4	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	23.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW23d **Lab ID: C103164-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.561	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	41.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	4.14	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.38	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Selenium - Total	1.04	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	5.04	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	5.36	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW24 **Lab ID: C103164-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.98	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	33.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloroform	13		1	0.70	1.0	5	ug/L	EPA 8260B	

Client ID: 9209-MW24 **Lab ID: C103164-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chromium - Total	2.17	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.92	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.62	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Selenium - Total	1.13	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	4.25	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	27.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28 **Lab ID: C103164-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	51.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	9.81	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.82	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.29	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	5.21	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.92	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.45	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.179	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	14.0	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	40.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW28d **Lab ID: C103164-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	14.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	4.17	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.91	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.31	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.08	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.59	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	4.96	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	16.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW29d **Lab ID: C103164-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.391	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.08	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	54.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Bis(2-ethylhexyl)phthalate	1.8	J	1	1.7	5.0	15	ug/L	EPA 8270D	
Chromium - Total	9.57	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Copper - Total	16.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.09	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.15	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	7.40	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	15.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW30 **Lab ID: C103164-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	91.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.202	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	29.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.25	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	37.1		1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW30 **Lab ID: C103164-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Lead - Total	8.69	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	11.2	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.12	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	27.0		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	37.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-MW36d **Lab ID: C103164-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	8.8		1	0.080	1.0	5	ug/L	EPA 8260B	
Barium - Total	98.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	32.3		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.2		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.00	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	32.5		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	1.4	J	1	0.56	1.0	5	ug/L	EPA 8260B	
Lead - Total	4.80	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	1.0		1	0.14	1.0	1	ug/L	EPA 8260B	
Nickel - Total	15.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.73	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Tetrachloroethene	1.0		1	0.73	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.7		1	0.72	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	29.3		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-DUP **Lab ID: C103164-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	8.9		1	0.080	1.0	5	ug/L	EPA 8260B	
Barium - Total	88.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	27.1		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.1		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.35	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	27.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Dichlorodifluoromethane	1.2	J	1	0.56	1.0	5	ug/L	EPA 8260B	
Lead - Total	2.51	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Methylene chloride	1.1		1	0.14	1.0	1	ug/L	EPA 8260B	
Nickel - Total	12.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	0.845	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Tetrachloroethene	1.1		1	0.73	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.7		1	0.72	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	24.5	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	14.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 9209-EQBlank **Lab ID: C103164-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Selenium - Total	1.19	J	1	0.830	1.00	10	ug/L	EPA 6020A	

Client ID: 9209-EQBlank **Lab ID: C103164-14RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	4.0	J	1	1.2	5.0	100	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 16:17	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 16:17	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**2.1**		ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 16:17	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 16:17	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 16:17	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 16:17	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 16:17	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 16:17	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 16:17	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 16:17	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 16:17	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 16:17	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 16:17	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 16:17	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 16:17	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 16:17	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 16:17	jkg	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 16:17	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 16:17	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 16:17	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 16:17	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 16:17	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 16:17	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 16:17	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 16:17	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 16:17	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 16:17	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 16:17	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 16:17*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 16:17*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 16:17*	*jkg*	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 13:43	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 13:43	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 13:43	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 13:43	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 13:43	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 13:43	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 13:43	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 13:43	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 13:43	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 13:43	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 13:43	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 13:43	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 13:43	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 13:43	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*106 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 13:43*	*MSZ*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*119 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 13:43*	*MSZ*	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:00	NLH	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 11:43	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:35	JDH	
Barium [7440-39-3] ^	**95.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:35	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:35	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:35	JDH	
Chromium [7440-47-3] ^	**4.62**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:35	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:35	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:35	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:35	JDH	
Nickel [7440-02-0] ^	**3.39**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:35	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 11:43	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:35	JDH	
Thallium [7440-28-0] ^	**0.267**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 11:43	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:35	JDH	
Zinc [7440-66-6] ^	**6.90**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:35	JDH	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	03/17/11 15:05	JOC	
Chemical Oxygen Demand [ECL-0035] ^	10000	U	ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**3800**	JB	ug/L	1	47	5000	NE	EPA 300.0	03/18/11 01:40	AJB	J-01
Nitrate as N [14797-55-8] ^	**530**	J	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**550**		ug/L	1	25	100	NE	EPA 353.2	03/22/11 09:48	CCB	
Nitrite as N [14797-65-0] ^	**17**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:45	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**8300**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 01:40	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**250000**	D	ug/L	5	60000	75000	NE	EPA 310.2	03/28/11 03:01	CCB	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	37	U	ug/L	1	37	50		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	**920**	J	ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**164000**		ug/L	1	2000	2500	NE	RSK-175	03/22/11 11:23	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 11:23	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 11:23	LAC	
Methane [74-82-8]	**1.60**		ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 11:23	LAC	

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Description: 9209-MW5R
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-01
Sampled: 03/16/11 16:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/19/11 10:05	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/19/11 10:05	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/19/11 10:05	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/19/11 10:05	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/19/11 10:05	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/19/11 10:05	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/19/11 10:05	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/19/11 10:05	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	03/19/11 10:05	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/19/11 10:05	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*56000*	*1*	*49800*	*112 %*	*80-124*	*1C21001*	*VGC-13*	*03/19/11 10:05*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW6 | **Lab Sample ID:** C102818-02 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 14:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 16:46	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.42**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 16:46	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**1.6**		ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 16:46	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 16:46	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 16:46	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 16:46	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 16:46	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 16:46	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 16:46	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 16:46	jkg	
Benzene [71-43-2] ^	**3.4**		ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 16:46	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 16:46	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 16:46	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Chlorobenzene [108-90-7] ^	**1.3**	J	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 16:46	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 16:46	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**1.3**	J	ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 16:46	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 16:46	jkg	

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Description: 9209-MW6 | **Lab Sample ID:** C102818-02 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 14:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 16:46	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 16:46	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 16:46	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 16:46	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 16:46	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 16:46	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 16:46	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 16:46	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 16:46	jkg	
Vinyl chloride [75-01-4] ^	**1.8**		ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 16:46	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 16:46	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 16:46*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 16:46*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 16:46*	*jkg*	

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Description: 9209-MW6 | **Lab Sample ID:** C102818-02 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 14:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 19:14	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 19:14*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 19:14*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*72 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 19:14*	*DFM*	

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Description: 9209-MW6 | **Lab Sample ID:** C102818-02 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 14:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:00	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 14:00	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:00	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 14:00	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 14:00	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 14:00	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 14:00	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 14:00	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:00	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 14:00	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:00	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 14:00	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 14:00	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 14:00	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.81*	*1*	*1.00*	*81 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 14:00*	*MSZ*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 14:00*	*MSZ*	

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Description:	9209-MW6	**Lab Sample ID:**	C102818-02	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/16/11 14:30	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:04	NLH	

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Description: 9209-MW6 | **Lab Sample ID:** C102818-02 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 14:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:02	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:37	JDH	
Barium [7440-39-3] ^	**365**		ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:37	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:37	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:37	JDH	
Chromium [7440-47-3] ^	**7.08**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:37	JDH	
Cobalt [7440-48-4] ^	**57.7**		ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:37	JDH	
Copper [7440-50-8] ^	**4.66**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:37	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:37	JDH	
Nickel [7440-02-0] ^	**11.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:37	JDH	
Selenium [7782-49-2] ^	**2.68**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:02	VLO	
Silver [7440-22-4] ^	**3.18**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:37	JDH	
Thallium [7440-28-0] ^	**0.741**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:02	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:37	JDH	
Zinc [7440-66-6] ^	**51.3**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:37	JDH	

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Description: 9209-MW6 | **Lab Sample ID:** C102818-02 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 14:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	03/17/11 15:05	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**75000**		ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**140000**	BD	ug/L	4	190	20000	NE	EPA 300.0	03/18/11 02:15	AJB	QB-01
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**29**	J	ug/L	1	25	100	NE	EPA 353.2	03/22/11 09:50	CCB	
Nitrite as N [14797-65-0] ^	**11**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:49	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**6300**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 01:58	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**500000**	D	ug/L	10	120000	150000	NE	EPA 310.2	03/28/11 03:01	CCB	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-02
Sampled: 03/16/11 14:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**770**		ug/L	1	37	50		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	**14000**		ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-02
Sampled: 03/16/11 14:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**349000**	D	ug/L	10	20000	25000	NE	RSK-175	03/22/11 14:08	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 12:30	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 12:30	LAC	
Methane [74-82-8]	**899**		ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 12:30	LAC	

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Description: 9209-MW6
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-02
Sampled: 03/16/11 14:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/19/11 11:08	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/19/11 11:08	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/19/11 11:08	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/19/11 11:08	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/19/11 11:08	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/19/11 11:08	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/19/11 11:08	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/19/11 11:08	MEF	
Propionic Acid [79-09-4]	**18000**		ug/L	1	180	500	NE	VGC-13	03/19/11 11:08	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/19/11 11:08	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*57000*	*1*	*49800*	*115 %*	*80-124*	*1C21001*	*VGC-13*	*03/19/11 11:08*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-03
Sampled: 03/16/11 15:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 17:16	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,1-Dichloroethane [75-34-3] ^	**3.2**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 17:16	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 17:16	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 17:16	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 17:16	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 17:16	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 17:16	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 17:16	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 17:16	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 17:16	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 17:16	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 17:16	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 17:16	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 17:16	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 17:16	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 17:16	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
Dichlorodifluoromethane [75-71-8] ^	**0.91**	J	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 17:16	jkg	

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-03
Sampled: 03/16/11 15:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 17:16	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 17:16	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 17:16	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 17:16	jkg	
Methylene chloride [75-09-2] ^	**0.49**	J	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 17:16	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 17:16	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 17:16	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 17:16	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 17:16	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 17:16	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 17:16	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 17:16*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 17:16*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 17:16*	*jkg*	

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Description:	9209-MW6d	**Lab Sample ID:**	C102818-03	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/16/11 15:10	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:07	NLH	

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Description: 9209-MW6d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-03
Sampled: 03/16/11 15:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.961**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:40	JDH	
Barium [7440-39-3] ^	**68.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:40	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:40	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:40	JDH	
Chromium [7440-47-3] ^	**3.05**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:40	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:40	JDH	
Copper [7440-50-8] ^	**3.91**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:40	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:40	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:40	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:40	JDH	
Thallium [7440-28-0] ^	**0.428**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:05	VLO	
Vanadium [7440-62-2] ^	**3.28**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:40	JDH	
Zinc [7440-66-6] ^	**6.94**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:40	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW7 | **Lab Sample ID:** C102818-04 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 17:46	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 17:46	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**1.6**		ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 17:46	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 17:46	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 17:46	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 17:46	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 17:46	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 17:46	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 17:46	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 17:46	jkg	
Benzene [71-43-2] ^	**1.8**		ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 17:46	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 17:46	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 17:46	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 17:46	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 17:46	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**0.74**	J	ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 17:46	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 17:46	jkg	

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Description: 9209-MW7 | **Lab Sample ID:** C102818-04 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 17:46	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 17:46	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 17:46	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 17:46	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 17:46	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 17:46	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 17:46	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 17:46	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 17:46	jkg	
Vinyl chloride [75-01-4] ^	**1.5**		ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 17:46	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 17:46	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*101 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 17:46*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 17:46*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 17:46*	*jkg*	

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Description: 9209-MW7 | **Lab Sample ID:** C102818-04 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 19:39	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*83 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 19:39*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*83 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 19:39*	*DFM*	
Terphenyl-d14	*38*	*1*	*50.0*	*77 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 19:39*	*DFM*	

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Description: 9209-MW7
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-04
Sampled: 03/16/11 17:35
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:16	NLH	

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Description: 9209-MW7 | **Lab Sample ID:** C102818-04 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:16	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:42	JDH	
Barium [7440-39-3] ^	**51.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:42	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:42	JDH	
Cadmium [7440-43-9] ^	**1.20**		ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:42	JDH	
Chromium [7440-47-3] ^	**6.76**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:42	JDH	
Cobalt [7440-48-4] ^	**30.5**		ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:42	JDH	
Copper [7440-50-8] ^	**4.81**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:42	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:42	JDH	
Nickel [7440-02-0] ^	**11.8**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:42	JDH	
Selenium [7782-49-2] ^	**1.42**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:16	VLO	
Silver [7440-22-4] ^	**3.14**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:42	JDH	
Thallium [7440-28-0] ^	**0.360**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:16	VLO	
Vanadium [7440-62-2] ^	**1.73**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:42	JDH	
Zinc [7440-66-6] ^	**11.8**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:42	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW8 | **Lab Sample ID:** C102818-05 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 18:15	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.61**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 18:15	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 18:15	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 18:15	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 18:15	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 18:15	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 18:15	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 18:15	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 18:15	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 18:15	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 18:15	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 18:15	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 18:15	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 18:15	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 18:15	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**17**		ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 18:15	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 18:15	jkg	

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Description: 9209-MW8 | **Lab Sample ID:** C102818-05 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 18:15	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 18:15	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 18:15	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 18:15	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 18:15	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 18:15	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 18:15	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 18:15	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 18:15	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 18:15	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 18:15	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 18:15*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 18:15*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*107 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 18:15*	*jkg*	

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Description:	9209-MW8	**Lab Sample ID:**	C102818-05	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/16/11 17:00	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:19	NLH	

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Description: 9209-MW8 | **Lab Sample ID:** C102818-05 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:18	JDH	
Barium [7440-39-3] ^	**41.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:18	JDH	
Chromium [7440-47-3] ^	**2.83**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:18	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:18	JDH	
Copper [7440-50-8] ^	**1.63**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:18	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:18	JDH	
Nickel [7440-02-0] ^	**2.22**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:18	JDH	
Selenium [7782-49-2] ^	**0.873**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:18	JDH	
Thallium [7440-28-0] ^	**0.279**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:29	VLO	
Vanadium [7440-62-2] ^	**1.65**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:18	JDH	
Zinc [7440-66-6] ^	**6.42**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:18	JDH	

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Description: 9209-MW8 | **Lab Sample ID:** C102818-05 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 17:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	03/17/11 15:05	JOC	
Chemical Oxygen Demand [ECL-0035] ^	10000	U	ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**9500**	B	ug/L	1	47	5000	NE	EPA 300.0	03/18/11 02:33	AJB	J-01
Nitrate as N [14797-55-8] ^	**120**	J	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**130**		ug/L	1	25	100	NE	EPA 353.2	03/22/11 09:53	CCB	
Nitrite as N [14797-65-0] ^	**7.9**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:50	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**2800**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 02:33	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**68000**		ug/L	1	12000	15000	NE	EPA 310.2	03/28/11 03:02	CCB	

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Description: 9209-MW8
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-05
Sampled: 03/16/11 17:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	37	U	ug/L	1	37	50		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	270	U	ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW8
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-05
Sampled: 03/16/11 17:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**148000**		ug/L	1	2000	2500	NE	RSK-175	03/22/11 12:34	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 12:34	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 12:34	LAC	
Methane [74-82-8]	**600**		ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 12:34	LAC	

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Description: 9209-MW8
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-05
Sampled: 03/16/11 17:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/19/11 12:10	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/19/11 12:10	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/19/11 12:10	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/19/11 12:10	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/19/11 12:10	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/19/11 12:10	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/19/11 12:10	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/19/11 12:10	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	03/19/11 12:10	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/19/11 12:10	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*56000*	*1*	*49800*	*112 %*	*80-124*	*1C21001*	*VGC-13*	*03/19/11 12:10*	*MEF*	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 18:45	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,1-Dichloroethane [75-34-3] ^	**12**		ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 18:45	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
1,2-Dichloroethane [107-06-2] ^	**0.92**	J	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,2-Dichloropropane [78-87-5] ^	**0.61**	J	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**6.0**		ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 18:45	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 18:45	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 18:45	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 18:45	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 18:45	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 18:45	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 18:45	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 18:45	jkg	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 18:45	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 18:45	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 18:45	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 18:45	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 18:45	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**13**		ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 18:45	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 18:45	jkg	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 18:45	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 18:45	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 18:45	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 18:45	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 18:45	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 18:45	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 18:45	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 18:45	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 18:45	jkg	
Vinyl chloride [75-01-4] ^	**14**		ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 18:45	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 18:45	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 18:45*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 18:45*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 18:45*	*jkg*	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 20:04	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 20:04*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 20:04*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*72 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 20:04*	*DFM*	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:16	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 14:16	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:16	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 14:16	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 14:16	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 14:16	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 14:16	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 14:16	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:16	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 14:16	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:16	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 14:16	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 14:16	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 14:16	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*108 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 14:16*	*MSZ*	
Decachlorobiphenyl	*0.96*	*1*	*1.00*	*96 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 14:16*	*MSZ*	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-06
Sampled: 03/17/11 08:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:22	NLH	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:33	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:44	JDH	
Barium [7440-39-3] ^	**176**		ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:44	JDH	
Beryllium [7440-41-7] ^	**0.241**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:44	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:44	JDH	
Chromium [7440-47-3] ^	**7.36**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:44	JDH	
Cobalt [7440-48-4] ^	**4.82**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:44	JDH	
Copper [7440-50-8] ^	**2.10**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:44	JDH	
Lead [7439-92-1] ^	**3.79**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:44	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:44	JDH	
Selenium [7782-49-2] ^	**0.841**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:33	VLO	
Silver [7440-22-4] ^	**3.51**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:44	JDH	
Thallium [7440-28-0] ^	**0.405**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:33	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:44	JDH	
Zinc [7440-66-6] ^	**13.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:44	JDH	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**2800**		ug/L	1	2000	2000	NE	SM 5210B	03/18/11 15:34	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**68000**		ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**18000**	B	ug/L	1	47	5000	NE	EPA 300.0	03/18/11 02:51	AJB	J-01
Nitrate as N [14797-55-8] ^	**100**	J	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**110**		ug/L	1	25	100	NE	EPA 353.2	03/22/11 09:55	CCB	
Nitrite as N [14797-65-0] ^	**8.4**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:52	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**2700**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 02:51	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**220000**	D	ug/L	2	24000	30000	NE	EPA 310.2	03/28/11 03:05	CCB	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-06
Sampled: 03/17/11 08:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**7700**		ug/L	10	370	500		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	**5800**		ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW9
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-06
Sampled: 03/17/11 08:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**231000**	D	ug/L	10	20000	25000	NE	RSK-175	03/22/11 14:12	LAC	
Ethane [74-84-0]	**2.27**		ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 12:38	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 12:38	LAC	
Methane [74-82-8]	**438**		ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 12:38	LAC	

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Description: 9209-MW9 | **Lab Sample ID:** C102818-06 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/19/11 13:12	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/19/11 13:12	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/19/11 13:12	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/19/11 13:12	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/19/11 13:12	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/19/11 13:12	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/19/11 13:12	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/19/11 13:12	MEF	
Propionic Acid [79-09-4]	**1800**		ug/L	1	180	500	NE	VGC-13	03/19/11 13:12	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/19/11 13:12	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*55000*	*1*	*49800*	*111 %*	*80-124*	*1C21001*	*VGC-13*	*03/19/11 13:12*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW10 | **Lab Sample ID:** C102818-07 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 09:45 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/23/11 19:14	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,1-Dichloroethane [75-34-3] ^	**4.2**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/23/11 19:14	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**1.1**		ug/L	1	0.79	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/23/11 19:14	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/23/11 19:14	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/23/11 19:14	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/23/11 19:14	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/23/11 19:14	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/23/11 19:14	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/23/11 19:14	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/23/11 19:14	jkg	
Benzene [71-43-2] ^	**3.3**		ug/L	1	0.68	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/23/11 19:14	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/23/11 19:14	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/23/11 19:14	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/23/11 19:14	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/23/11 19:14	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**48**		ug/L	1	0.72	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/23/11 19:14	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/23/11 19:14	jkg	

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Description: 9209-MW10 | **Lab Sample ID:** C102818-07 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 09:45 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/23/11 19:14	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/23/11 19:14	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/23/11 19:14	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/23/11 19:14	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/23/11 19:14	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/23/11 19:14	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Tetrachloroethene [127-18-4] ^	**2.5**		ug/L	1	0.73	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/23/11 19:14	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/23/11 19:14	jkg	
Trichloroethene [79-01-6] ^	**2.6**		ug/L	1	0.72	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/23/11 19:14	jkg	
Vinyl chloride [75-01-4] ^	**1.6**		ug/L	1	0.60	1.0	1	EPA 8260B	03/23/11 19:14	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/23/11 19:14	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*1C23003*	*EPA 8260B*	*03/23/11 19:14*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*1C23003*	*EPA 8260B*	*03/23/11 19:14*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*107 %*	*69-110*	*1C23003*	*EPA 8260B*	*03/23/11 19:14*	*jkg*	

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Description: 9209-MW10 | **Lab Sample ID:** C102818-07 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 09:45 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 20:29	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*42*	*1*	*50.0*	*85 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 20:29*	*DFM*	
Nitrobenzene-d5	*44*	*1*	*50.0*	*88 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 20:29*	*DFM*	
Terphenyl-d14	*30*	*1*	*50.0*	*59 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 20:29*	*DFM*	

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Description:	9209-MW10	**Lab Sample ID:**	C102818-07	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/17/11 09:45	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.388**		ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:25	NLH	

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Description: 9209-MW10 | **Lab Sample ID:** C102818-07 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 09:45 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:37	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:47	JDH	
Barium [7440-39-3] ^	**34.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:47	JDH	
Beryllium [7440-41-7] ^	**0.285**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:47	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:47	JDH	
Chromium [7440-47-3] ^	**2.22**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:47	JDH	
Cobalt [7440-48-4] ^	**1.93**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:47	JDH	
Copper [7440-50-8] ^	**4.17**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:47	JDH	
Lead [7439-92-1] ^	**2.25**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:47	JDH	
Nickel [7440-02-0] ^	**2.48**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:47	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:47	JDH	
Thallium [7440-28-0] ^	**0.352**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:37	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:47	JDH	
Zinc [7440-66-6] ^	**14.1**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:47	JDH	

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Description: 9209-MW10 | **Lab Sample ID:** C102818-07 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 09:45 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	03/18/11 15:34	JOC	
Chemical Oxygen Demand [ECL-0035] ^	10000	U	ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**4300**	JB	ug/L	1	47	5000	NE	EPA 300.0	03/18/11 03:08	AJB	J-01
Nitrate as N [14797-55-8] ^	**39**	J	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**49**	J	ug/L	1	25	100	NE	EPA 353.2	03/22/11 10:40	CCB	
Nitrite as N [14797-65-0] ^	**9.6**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:56	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**2400**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 03:08	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**130000**		ug/L	1	12000	15000	NE	EPA 310.2	03/28/11 03:06	CCB	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-07
Sampled: 03/17/11 09:45
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	**260**		ug/L	1	37	50		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	**2700**		ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-07
Sampled: 03/17/11 09:45
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**399000**	D	ug/L	10	20000	25000	NE	RSK-175	03/22/11 14:16	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 12:41	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 12:41	LAC	
Methane [74-82-8]	**2000**		ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 12:41	LAC	

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Description: 9209-MW10
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-07
Sampled: 03/17/11 09:45
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/19/11 14:15	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/19/11 14:15	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/19/11 14:15	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/19/11 14:15	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/19/11 14:15	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/19/11 14:15	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/19/11 14:15	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/19/11 14:15	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	03/19/11 14:15	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/19/11 14:15	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*56000*	*1*	*49800*	*112 %*	*80-124*	*1C21001*	*VGC-13*	*03/19/11 14:15*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 01:06	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 01:06	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 01:06	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 01:06	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 01:06	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 01:06	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 01:06	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 01:06	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 01:06	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 01:06	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 01:06	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 01:06	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 01:06	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 01:06	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 01:06	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 01:06	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 01:06	jkg	

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 01:06	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 01:06	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 01:06	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 01:06	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 01:06	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 01:06	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 01:06	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 01:06	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 01:06	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 01:06	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 01:06	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 01:06*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 01:06*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 01:06*	*jkg*	

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 20:55	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 20:55*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 20:55*	*DFM*	
Terphenyl-d14	*33*	*1*	*50.0*	*66 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 20:55*	*DFM*	

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:33	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 14:33	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:33	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 14:33	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 14:33	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 14:33	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 14:33	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 14:33	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 14:33	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 14:33	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 14:33	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 14:33	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 14:33	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 14:33	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.99*	*1*	*1.00*	*99 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 14:33*	*MSZ*	
Decachlorobiphenyl	*0.44*	*1*	*1.00*	*44 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 14:33*	*MSZ*	

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Description:	9209-MW11	**Lab Sample ID:**	C102818-08	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/17/11 07:20	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:28	NLH	

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:41	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:49	JDH	
Barium [7440-39-3] ^	**76.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:49	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:49	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:49	JDH	
Chromium [7440-47-3] ^	**1.60**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:49	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:49	JDH	
Copper [7440-50-8] ^	**3.88**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:49	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:49	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:49	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:41	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:49	JDH	
Thallium [7440-28-0] ^	**0.265**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:41	VLO	
Vanadium [7440-62-2] ^	**3.51**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:49	JDH	
Zinc [7440-66-6] ^	**24.3**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:49	JDH	

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	03/18/11 15:34	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**17000**		ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**5000**	B	ug/L	1	47	5000	NE	EPA 300.0	03/18/11 03:26	AJB	J-01
Nitrate as N [14797-55-8] ^	**600**	J	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**610**		ug/L	1	25	100	NE	EPA 353.2	03/22/11 10:42	CCB	
Nitrite as N [14797-65-0] ^	**8.1**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:57	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**2100**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 03:26	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**32000**		ug/L	1	12000	15000	NE	EPA 310.2	03/28/11 03:07	CCB	

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Description: 9209-MW11 | **Lab Sample ID:** C102818-08 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 07:20 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	03/25/11 04:43	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	03/25/11 04:43	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	03/25/11 04:43	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	03/25/11 04:43	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	03/25/11 04:43	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*82 %*	*68-139*	*1C22013*	*EPA 8151A*	*03/25/11 04:43*	*RGG*	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-08
Sampled: 03/17/11 07:20
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	37	U	ug/L	1	37	50		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	**530**	J	ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-08
Sampled: 03/17/11 07:20
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**67600**		ug/L	1	2000	2500	NE	RSK-175	03/22/11 12:45	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 12:45	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 12:45	LAC	
Methane [74-82-8]	**0.520**	J	ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 12:45	LAC	

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Description: 9209-MW11
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-08
Sampled: 03/17/11 07:20
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/19/11 15:17	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/19/11 15:17	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/19/11 15:17	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/19/11 15:17	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/19/11 15:17	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/19/11 15:17	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/19/11 15:17	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/19/11 15:17	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	03/19/11 15:17	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/19/11 15:17	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*55000*	*1*	*49800*	*111 %*	*80-124*	*1C21001*	*VGC-13*	*03/19/11 15:17*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW31 | **Lab Sample ID:** C102818-09 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 01:35	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 01:35	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 01:35	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 01:35	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 01:35	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 01:35	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 01:35	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 01:35	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 01:35	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 01:35	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 01:35	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 01:35	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 01:35	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 01:35	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
Chloroform [67-66-3] ^	**2.5**	J	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 01:35	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 01:35	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 01:35	jkg	

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Description: 9209-MW31 | **Lab Sample ID:** C102818-09 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 01:35	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 01:35	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 01:35	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 01:35	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 01:35	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 01:35	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 01:35	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 01:35	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 01:35	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 01:35	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 01:35	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 01:35*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 01:35*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 01:35*	*jkg*	

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Description: 9209-MW31 | **Lab Sample ID:** C102818-09 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:11	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 15:11	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:11	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 15:11	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 15:11	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 15:11	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 15:11	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:11	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:11	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 15:11	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:11	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:11	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 15:11	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 15:11	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.86*	*1*	*1.00*	*86 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 15:11*	*MSZ*	
Decachlorobiphenyl	*0.67*	*1*	*1.00*	*67 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 15:11*	*MSZ*	

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Description:	9209-MW31	**Lab Sample ID:**	C102818-09	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/17/11 11:00	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:31	NLH	

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Description: 9209-MW31 | **Lab Sample ID:** C102818-09 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:00 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:44	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:57	JDH	
Barium [7440-39-3] ^	**42.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:57	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:57	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:57	JDH	
Chromium [7440-47-3] ^	**14.0**		ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:57	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:57	JDH	
Copper [7440-50-8] ^	**7.79**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:57	JDH	
Lead [7439-92-1] ^	**4.47**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:57	JDH	
Nickel [7440-02-0] ^	**3.20**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:57	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:44	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:57	JDH	
Thallium [7440-28-0] ^	**0.255**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:44	VLO	
Vanadium [7440-62-2] ^	**9.69**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:57	JDH	
Zinc [7440-66-6] ^	**26.3**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:57	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-10
Sampled: 03/16/11 10:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 02:05	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 02:05	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 02:05	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 02:05	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 02:05	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 02:05	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 02:05	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 02:05	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 02:05	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 02:05	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 02:05	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 02:05	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 02:05	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 02:05	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
Chloroform [67-66-3] ^	**28**		ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 02:05	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 02:05	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 02:05	jkg	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-10
Sampled: 03/16/11 10:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 02:05	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 02:05	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 02:05	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 02:05	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 02:05	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 02:05	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 02:05	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 02:05	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 02:05	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 02:05	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 02:05	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 02:05*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 02:05*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 02:05*	*jkg*	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-10
Sampled: 03/16/11 10:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 21:20	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*36*	*1*	*50.0*	*71 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 21:20*	*DFM*	
Nitrobenzene-d5	*35*	*1*	*50.0*	*70 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 21:20*	*DFM*	
Terphenyl-d14	*32*	*1*	*50.0*	*63 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 21:20*	*DFM*	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-10
Sampled: 03/16/11 10:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 15:45	NLH	

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Description: 9209-MW31d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-10
Sampled: 03/16/11 10:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.19**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:48	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 11:59	JDH	
Barium [7440-39-3] ^	**20.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 11:59	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 11:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 11:59	JDH	
Chromium [7440-47-3] ^	**9.86**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 11:59	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 11:59	JDH	
Copper [7440-50-8] ^	**4.08**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 11:59	JDH	
Lead [7439-92-1] ^	**2.56**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:59	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 11:59	JDH	
Selenium [7782-49-2] ^	**1.24**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:48	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 11:59	JDH	
Thallium [7440-28-0] ^	**0.327**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:48	VLO	
Vanadium [7440-62-2] ^	**9.46**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 11:59	JDH	
Zinc [7440-66-6] ^	**30.5**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 11:59	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW32 | **Lab Sample ID:** C102818-11 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:25 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 02:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 02:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 02:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 02:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 02:34	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 02:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 02:34	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 02:34	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 02:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 02:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 02:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 02:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 02:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 02:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 02:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 02:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 02:34	jkg	

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Description: 9209-MW32 | **Lab Sample ID:** C102818-11 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:25 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 02:34	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 02:34	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 02:34	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 02:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 02:34	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 02:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 02:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 02:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 02:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 02:34	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 02:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*101 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 02:34*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 02:34*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 02:34*	*jkg*	

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Description: 9209-MW32
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-11
Sampled: 03/17/11 11:25
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:34	NLH	

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Description: 9209-MW32 | **Lab Sample ID:** C102818-11 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 11:25 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:52	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:01	JDH	
Barium [7440-39-3] ^	**21.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:01	JDH	
Beryllium [7440-41-7] ^	**0.145**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:01	JDH	
Chromium [7440-47-3] ^	**4.58**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:01	JDH	
Cobalt [7440-48-4] ^	**2.91**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:01	JDH	
Copper [7440-50-8] ^	**18.2**		ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:01	JDH	
Lead [7439-92-1] ^	**2.11**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:01	JDH	
Nickel [7440-02-0] ^	**3.91**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:01	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:52	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:01	JDH	
Thallium [7440-28-0] ^	**0.276**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:52	VLO	
Vanadium [7440-62-2] ^	**7.49**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:01	JDH	
Zinc [7440-66-6] ^	**29.5**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:01	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-12
Sampled: 03/17/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 03:03	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 03:03	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 03:03	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 03:03	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 03:03	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 03:03	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 03:03	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 03:03	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 03:03	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 03:03	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 03:03	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 03:03	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 03:03	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 03:03	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
Chloroform [67-66-3] ^	**2.5**	J	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 03:03	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 03:03	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 03:03	jkg	

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-12
Sampled: 03/17/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 03:03	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 03:03	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 03:03	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 03:03	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 03:03	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 03:03	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 03:03	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 03:03	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 03:03	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 03:03	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 03:03	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 03:03*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 03:03*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 03:03*	*jkg*	

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-12
Sampled: 03/17/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:24	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 15:24	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:24	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 15:24	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 15:24	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 15:24	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 15:24	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:24	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:24	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 15:24	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:24	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:24	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 15:24	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 15:24	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*102 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 15:24*	*MSZ*	
Decachlorobiphenyl	*0.98*	*1*	*1.00*	*98 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 15:24*	*MSZ*	

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Description:	9209-TB1a	**Lab Sample ID:**	C102818-12	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/17/11 11:10	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:37	NLH	

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Description: 9209-TB1a
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-12
Sampled: 03/17/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:56	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:03	JDH	
Barium [7440-39-3] ^	**32.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:03	JDH	
Chromium [7440-47-3] ^	**2.46**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:03	JDH	
Cobalt [7440-48-4] ^	**2.23**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:03	JDH	
Copper [7440-50-8] ^	**11.6**		ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:03	JDH	
Lead [7439-92-1] ^	**2.68**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:03	JDH	
Nickel [7440-02-0] ^	**3.14**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:03	JDH	
Selenium [7782-49-2] ^	**0.849**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:56	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:03	JDH	
Thallium [7440-28-0] ^	**0.332**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:56	VLO	
Vanadium [7440-62-2] ^	**7.45**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:03	JDH	
Zinc [7440-66-6] ^	**16.3**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:03	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-13
Sampled: 03/16/11 11:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 03:33	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 03:33	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 03:33	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 03:33	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 03:33	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 03:33	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 03:33	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 03:33	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 03:33	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 03:33	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 03:33	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 03:33	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 03:33	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 03:33	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
Chloroform [67-66-3] ^	**31**		ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 03:33	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 03:33	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 03:33	jkg	

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Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-13
Sampled: 03/16/11 11:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 03:33	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 03:33	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 03:33	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 03:33	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 03:33	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 03:33	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 03:33	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 03:33	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 03:33	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 03:33	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 03:33	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 03:33*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 03:33*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 03:33*	*jkg*	

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Description:	9209-TB1ad	**Lab Sample ID:**	C102818-13	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/16/11 11:00	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:40	NLH	

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Description: 9209-TB1ad
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-13
Sampled: 03/16/11 11:00
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.19**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 12:59	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:05	JDH	
Barium [7440-39-3] ^	**14.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:05	JDH	
Chromium [7440-47-3] ^	**16.7**		ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:05	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:05	JDH	
Copper [7440-50-8] ^	**3.97**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:05	JDH	
Lead [7439-92-1] ^	**2.03**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:05	JDH	
Nickel [7440-02-0] ^	**4.68**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:05	JDH	
Selenium [7782-49-2] ^	**0.946**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 12:59	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:05	JDH	
Thallium [7440-28-0] ^	**0.338**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 12:59	VLO	
Vanadium [7440-62-2] ^	**7.43**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:05	JDH	
Zinc [7440-66-6] ^	**12.4**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:05	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW33 | **Lab Sample ID:** C102818-14 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 15:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 04:02	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 04:02	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 04:02	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 04:02	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 04:02	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 04:02	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 04:02	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 04:02	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 04:02	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 04:02	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 04:02	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 04:02	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 04:02	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 04:02	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 04:02	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 04:02	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 04:02	jkg	

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Description: 9209-MW33 | **Lab Sample ID:** C102818-14 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 15:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 04:02	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 04:02	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 04:02	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 04:02	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 04:02	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 04:02	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 04:02	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 04:02	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 04:02	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 04:02	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 04:02	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 04:02*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 04:02*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 04:02*	*jkg*	

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Description: 9209-MW33 | **Lab Sample ID:** C102818-14 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 15:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:37	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 15:37	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:37	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 15:37	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 15:37	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 15:37	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 15:37	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:37	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:37	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 15:37	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:37	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:37	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 15:37	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 15:37	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 15:37*	*MSZ*	
Decachlorobiphenyl	*0.84*	*1*	*1.00*	*84 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 15:37*	*MSZ*	

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Description:	9209-MW33	**Lab Sample ID:**	C102818-14	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/16/11 15:30	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:43	NLH	

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Description: 9209-MW33 | **Lab Sample ID:** C102818-14 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/16/11 15:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 13:03	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:07	JDH	
Barium [7440-39-3] ^	**66.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:07	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:07	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:07	JDH	
Chromium [7440-47-3] ^	**21.1**		ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:07	JDH	
Cobalt [7440-48-4] ^	**5.46**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:07	JDH	
Copper [7440-50-8] ^	**14.9**		ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:07	JDH	
Lead [7439-92-1] ^	**4.04**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:07	JDH	
Nickel [7440-02-0] ^	**7.61**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:07	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 13:03	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:07	JDH	
Thallium [7440-28-0] ^	**0.298**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 13:03	VLO	
Vanadium [7440-62-2] ^	**29.0**		ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:07	JDH	
Zinc [7440-66-6] ^	**45.9**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:07	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW34 | **Lab Sample ID:** C102818-15 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 10:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 04:31	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,1-Dichloroethane [75-34-3] ^	**10**		ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 04:31	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**0.89**	J	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 04:31	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 04:31	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 04:31	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 04:31	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 04:31	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 04:31	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 04:31	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 04:31	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 04:31	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 04:31	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 04:31	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 04:31	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 04:31	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**11**		ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 04:31	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 04:31	jkg	

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Description: 9209-MW34 | **Lab Sample ID:** C102818-15 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 10:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 04:31	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 04:31	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 04:31	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 04:31	jkg	
Methylene chloride [75-09-2] ^	**11**		ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 04:31	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 04:31	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Tetrachloroethene [127-18-4] ^	**2.2**		ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 04:31	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 04:31	jkg	
Trichloroethene [79-01-6] ^	**3.4**		ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 04:31	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 04:31	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 04:31	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 04:31*	*jkg*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 04:31*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 04:31*	*jkg*	

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Description:	9209-MW34	**Lab Sample ID:**	C102818-15	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/17/11 10:35	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:52	NLH	

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Description: 9209-MW34 | **Lab Sample ID:** C102818-15 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 10:35 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 13:18	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:09	JDH	
Barium [7440-39-3] ^	**238**		ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:09	JDH	
Beryllium [7440-41-7] ^	**2.19**		ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:09	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:09	JDH	
Chromium [7440-47-3] ^	**37.2**		ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:09	JDH	
Cobalt [7440-48-4] ^	**8.32**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:09	JDH	
Copper [7440-50-8] ^	**46.3**		ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:09	JDH	
Lead [7439-92-1] ^	**13.7**		ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:09	JDH	
Nickel [7440-02-0] ^	**24.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:09	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 13:18	VLO	
Silver [7440-22-4] ^	**2.47**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:09	JDH	
Thallium [7440-28-0] ^	**0.254**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 13:18	VLO	
Vanadium [7440-62-2] ^	**72.0**		ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:09	JDH	
Zinc [7440-66-6] ^	**94.5**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:09	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-16
Sampled: 03/16/11 08:40
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 05:00	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,1-Dichloroethane [75-34-3] ^	**1.7**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 05:00	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 05:00	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 05:00	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 05:00	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 05:00	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 05:00	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 05:00	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 05:00	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 05:00	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 05:00	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 05:00	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 05:00	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 05:00	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 05:00	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**1.6**	J	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 05:00	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 05:00	jkg	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-16
Sampled: 03/16/11 08:40
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 05:00	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 05:00	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 05:00	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 05:00	jkg	
Methylene chloride [75-09-2] ^	**0.43**	J	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 05:00	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 05:00	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 05:00	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 05:00	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 05:00	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 05:00	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 05:00	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 05:00*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 05:00*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 05:00*	*jkg*	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-16
Sampled: 03/16/11 08:40
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 21:45	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*39*	*1*	*50.0*	*79 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 21:45*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 21:45*	*DFM*	
Terphenyl-d14	*30*	*1*	*50.0*	*61 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 21:45*	*DFM*	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-16
Sampled: 03/16/11 08:40
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:55	NLH	

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Description: 9209-MW34d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-16
Sampled: 03/16/11 08:40
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.351**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 13:21	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:11	JDH	
Barium [7440-39-3] ^	**33.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:11	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:11	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:11	JDH	
Chromium [7440-47-3] ^	**9.87**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:11	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:11	JDH	
Copper [7440-50-8] ^	**8.59**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:11	JDH	
Lead [7439-92-1] ^	**2.06**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:11	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:11	JDH	
Selenium [7782-49-2] ^	**0.946**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 13:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:11	JDH	
Thallium [7440-28-0] ^	**0.209**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 13:21	VLO	
Vanadium [7440-62-2] ^	**1.83**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:11	JDH	
Zinc [7440-66-6] ^	**11.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:11	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW35 | **Lab Sample ID:** C102818-17 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 10:25 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 05:30	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 05:30	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 05:30	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 05:30	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 05:30	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 05:30	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 05:30	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 05:30	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 05:30	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 05:30	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 05:30	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 05:30	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 05:30	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 05:30	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 05:30	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 05:30	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 05:30	jkg	

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Description: 9209-MW35 | **Lab Sample ID:** C102818-17 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 10:25 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 05:30	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 05:30	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 05:30	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 05:30	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 05:30	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 05:30	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 05:30	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 05:30	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 05:30	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 05:30	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 05:30	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 05:30*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 05:30*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 05:30*	*jkg*	

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Description:	9209-MW35	**Lab Sample ID:**	C102818-17	**Received:**	03/17/11 14:25
Matrix:	Ground Water	**Sampled:**	03/17/11 10:25	**Work Order:**	C102818
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 16:58	NLH	

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Description: 9209-MW35 | **Lab Sample ID:** C102818-17 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 10:25 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 13:25	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:13	JDH	
Barium [7440-39-3] ^	**52.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:13	JDH	
Beryllium [7440-41-7] ^	**0.536**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:13	JDH	
Chromium [7440-47-3] ^	**5.36**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:13	JDH	
Cobalt [7440-48-4] ^	**2.04**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:13	JDH	
Copper [7440-50-8] ^	**7.03**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:13	JDH	
Lead [7439-92-1] ^	**2.33**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:13	JDH	
Nickel [7440-02-0] ^	**3.08**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:13	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 13:25	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:13	JDH	
Thallium [7440-28-0] ^	**0.192**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 13:25	VLO	
Vanadium [7440-62-2] ^	**10.2**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:13	JDH	
Zinc [7440-66-6] ^	**23.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:13	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW36 | **Lab Sample ID:** C102818-18 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 05:59	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,1-Dichloroethane [75-34-3] ^	**9.1**		ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 05:59	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**1.1**		ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 05:59	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 05:59	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 05:59	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 05:59	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 05:59	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 05:59	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 05:59	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 05:59	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 05:59	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 05:59	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 05:59	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 05:59	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 05:59	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**6.3**		ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 05:59	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 05:59	jkg	

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Description: 9209-MW36 | **Lab Sample ID:** C102818-18 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 05:59	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 05:59	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 05:59	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 05:59	jkg	
Methylene chloride [75-09-2] ^	**0.47**	J	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 05:59	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 05:59	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 05:59	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 05:59	jkg	
Trichloroethene [79-01-6] ^	**1.7**		ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 05:59	jkg	
Vinyl chloride [75-01-4] ^	**0.80**	J	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 05:59	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 05:59	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 05:59*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 05:59*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 05:59*	*jkg*	

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Description: 9209-MW36 | **Lab Sample ID:** C102818-18 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 22:10	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*39*	*1*	*50.0*	*77 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 22:10*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 22:10*	*DFM*	
Terphenyl-d14	*27*	*1*	*50.0*	*54 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 22:10*	*DFM*	

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Description: 9209-MW36 | **Lab Sample ID:** C102818-18 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:51	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 15:51	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:51	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 15:51	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 15:51	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 15:51	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 15:51	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:51	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 15:51	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 15:51	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 15:51	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 15:51	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 15:51	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 15:51	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*121 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 15:51*	*MSZ*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 15:51*	*MSZ*	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-18
Sampled: 03/17/11 08:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/21/11 17:01	NLH	

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Description: 9209-MW36 | **Lab Sample ID:** C102818-18 | **Received:** 03/17/11 14:25

Matrix: Ground Water | **Sampled:** 03/17/11 08:30 | **Work Order:** C102818

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/21/11 13:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/22/11 12:15	JDH	
Barium [7440-39-3] ^	**69.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/22/11 12:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/22/11 12:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/22/11 12:15	JDH	
Chromium [7440-47-3] ^	**10.4**		ug/L	1	1.00	10.0	10	EPA 6010C	03/22/11 12:15	JDH	
Cobalt [7440-48-4] ^	**2.66**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/22/11 12:15	JDH	
Copper [7440-50-8] ^	**9.60**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/22/11 12:15	JDH	
Lead [7439-92-1] ^	**2.28**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:15	JDH	
Nickel [7440-02-0] ^	**4.16**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/22/11 12:15	JDH	
Selenium [7782-49-2] ^	**0.962**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/21/11 13:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/22/11 12:15	JDH	
Thallium [7440-28-0] ^	**0.282**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/21/11 13:29	VLO	
Vanadium [7440-62-2] ^	**10.7**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/22/11 12:15	JDH	
Zinc [7440-66-6] ^	**13.8**		ug/L	1	3.80	10.0	10	EPA 6010C	03/22/11 12:15	JDH	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-18
Sampled: 03/17/11 08:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	03/18/11 15:34	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**38000**		ug/L	1	10000	10000	NE	SM 5220D	03/23/11 14:54	JOC	
Chloride [16887-00-6] ^	**7200**	B	ug/L	1	47	5000	NE	EPA 300.0	03/18/11 03:44	AJB	J-01
Nitrate as N [14797-55-8] ^	**670**	J	ug/L	1	25	100	10000	EPA 353.2	03/24/11 11:50	CCB	
Nitrate/Nitrite as N [ECL-0010] ^	**680**		ug/L	1	25	100	NE	EPA 353.2	03/22/11 10:45	CCB	
Nitrite as N [14797-65-0] ^	**8.9**	JB	ug/L	1	1.1	100	1000	EPA 353.2	03/17/11 18:58	CCB	J-01
Sulfate as SO4 [14808-79-8] ^	**4600**	J	ug/L	1	20	5000	250000	EPA 300.0	03/18/11 03:44	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	03/22/11 11:35	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**84000**		ug/L	1	12000	15000	NE	EPA 310.2	03/28/11 21:22	AJB	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-18
Sampled: 03/17/11 08:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iron, Ferrous [7439-89-6]	180	UD	ug/L	5	180	250		SM18 3500-Fe D	03/22/11 16:28	RMM	Q
Total Organic Carbon [ECL-0165] ^	**1500**		ug/L	1	270	1000	NE	SM18 5310B	03/25/11 14:47	RSA	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-18
Sampled: 03/17/11 08:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**140000**		ug/L	1	2000	2500	NE	RSK-175	03/22/11 12:49	LAC	
Ethane [74-84-0]	1.50	U	ug/L	1	1.50	2.00	NE	RSK-175	03/22/11 12:49	LAC	
Ethene [74-85-1]	1.60	U	ug/L	1	1.60	2.00	NE	RSK-175	03/22/11 12:49	LAC	
Methane [74-82-8]	**43.5**		ug/L	1	0.490	1.00	NE	RSK-175	03/22/11 12:49	LAC	

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Description: 9209-MW36
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-18
Sampled: 03/17/11 08:30
Sampled By: Aaron Weispfenning

Received: 03/17/11 14:25
Work Order: C102818

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	03/21/11 17:29	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	03/21/11 17:29	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	03/21/11 17:29	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	03/21/11 17:29	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	03/21/11 17:29	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	03/21/11 17:29	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	03/21/11 17:29	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	03/21/11 17:29	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	03/21/11 17:29	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	03/21/11 17:29	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*55000*	*1*	*49800*	*111 %*	*80-124*	*1C21002*	*VGC-13*	*03/21/11 17:29*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-TripBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-19
Sampled: 03/16/11 16:00
Sampled By: ENCO

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 06:28	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 06:28	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 06:28	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 06:28	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 06:28	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 06:28	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 06:28	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 06:28	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 06:28	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 06:28	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 06:28	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 06:28	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 06:28	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 06:28	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 06:28	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 06:28	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 06:28	jkg	

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Description: 9209-TripBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C102818-19
Sampled: 03/16/11 16:00
Sampled By: ENCO

Received: 03/17/11 14:25
Work Order: C102818

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 06:28	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 06:28	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 06:28	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 06:28	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 06:28	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 06:28	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 06:28	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 06:28	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 06:28	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 06:28	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 06:28	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*101 %*	*51-122*	*1C23032*	*EPA 8260B*	*03/24/11 06:28*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C23032*	*EPA 8260B*	*03/24/11 06:28*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*1C23032*	*EPA 8260B*	*03/24/11 06:28*	*jkg*	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-01
Sampled: 03/18/11 11:40
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 18:59	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 18:59	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 18:59	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 18:59	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 18:59	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 18:59	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 18:59	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 18:59	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 18:59	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 18:59	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 18:59	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 18:59	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 18:59	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 18:59	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 18:59	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 18:59	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 18:59	jkg	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-01
Sampled: 03/18/11 11:40
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 18:59	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 18:59	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 18:59	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 18:59	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 18:59	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 18:59	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 18:59	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 18:59	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 18:59	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 18:59	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 18:59	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 18:59*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 18:59*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 18:59*	*jkg*	

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Description:	9209-MW8d	**Lab Sample ID:**	C103164-01	**Received:**	03/18/11 13:15
Matrix:	Ground Water	**Sampled:**	03/18/11 11:40	**Work Order:**	C103164
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 14:42	NLH	

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Description: 9209-MW8d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-01
Sampled: 03/18/11 11:40
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.512**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:32	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:38	JDH	
Barium [7440-39-3] ^	**28.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:38	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:38	JDH	
Chromium [7440-47-3] ^	**5.85**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:38	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:38	JDH	
Copper [7440-50-8] ^	**4.41**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:38	JDH	
Lead [7439-92-1] ^	**2.19**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:38	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:38	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:32	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:38	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:32	VLO	
Vanadium [7440-62-2] ^	**5.18**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:38	JDH	
Zinc [7440-66-6] ^	**4.47**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 12:54	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-02
Sampled: 03/18/11 11:55
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 19:29	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,1-Dichloroethane [75-34-3] ^	**2.0**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 19:29	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 19:29	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 19:29	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 19:29	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 19:29	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 19:29	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 19:29	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 19:29	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 19:29	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 19:29	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 19:29	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 19:29	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 19:29	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 19:29	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 19:29	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 19:29	jkg	

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-02
Sampled: 03/18/11 11:55
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 19:29	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 19:29	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 19:29	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 19:29	jkg	
Methylene chloride [75-09-2] ^	**1.0**		ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 19:29	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 19:29	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 19:29	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 19:29	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 19:29	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 19:29	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 19:29	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 19:29*	*jkg*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 19:29*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 19:29*	*jkg*	

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-02
Sampled: 03/18/11 11:55
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 22:35	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 22:35*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 22:35*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*73 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 22:35*	*DFM*	

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Description:	9209-MW10d	**Lab Sample ID:**	C103164-02	**Received:**	03/18/11 13:15
Matrix:	Ground Water	**Sampled:**	03/18/11 11:55	**Work Order:**	C103164
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 14:46	NLH	

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Description: 9209-MW10d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-02
Sampled: 03/18/11 11:55
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:36	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:40	JDH	
Barium [7440-39-3] ^	**3.88**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:40	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:40	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:40	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:40	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:40	JDH	
Copper [7440-50-8] ^	**2.16**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:40	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:40	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:40	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:36	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:40	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:36	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:40	JDH	
Zinc [7440-66-6] ^	**4.02**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 12:56	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 19:58	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 19:58	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/24/11 19:58	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 19:58	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 19:58	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 19:58	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 19:58	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/24/11 19:58	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/24/11 19:58	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 19:58	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 19:58	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 19:58	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 19:58	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 19:58	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/24/11 19:58	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 19:58	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/24/11 19:58	jkg	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 19:58	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/24/11 19:58	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/24/11 19:58	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/24/11 19:58	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/24/11 19:58	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/24/11 19:58	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 19:58	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 19:58	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 19:58	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 19:58	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 19:58	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 19:58*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 19:58*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 19:58*	*jkg*	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 23:00	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 23:00*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 23:00*	*DFM*	
Terphenyl-d14	*34*	*1*	*50.0*	*69 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 23:00*	*DFM*	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:17	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 16:17	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:17	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 16:17	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 16:17	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 16:17	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 16:17	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 16:17	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:17	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 16:17	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:17	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 16:17	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 16:17	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 16:17	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 16:17*	*MSZ*	
Decachlorobiphenyl	*0.39*	*1*	*1.00*	*39 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 16:17*	*MSZ*	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 14:48	NLH	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.852**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:40	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:42	JDH	
Barium [7440-39-3] ^	**51.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:42	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:42	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:42	JDH	
Chromium [7440-47-3] ^	**3.43**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:42	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:42	JDH	
Copper [7440-50-8] ^	**4.41**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:42	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:42	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:42	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:40	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:42	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:40	VLO	
Vanadium [7440-62-2] ^	**3.73**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:42	JDH	
Zinc [7440-66-6] ^	**8.04**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 12:58	JDH	

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Description: 9209-MW11d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-03
Sampled: 03/18/11 07:50
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	03/25/11 05:31	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	03/25/11 05:31	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	03/25/11 05:31	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	03/25/11 05:31	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	03/25/11 05:31	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*87 %*	*68-139*	*1C22013*	*EPA 8151A*	*03/25/11 05:31*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW22 | **Lab Sample ID:** C103164-04 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 08:10 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 04:44	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 04:44	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 04:44	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 04:44	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 04:44	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 04:44	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 04:44	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 04:44	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 04:44	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 04:44	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 04:44	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 04:44	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 04:44	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 04:44	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
Chloroform [67-66-3] ^	**0.79**	J	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 04:44	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 04:44	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 04:44	jkg	

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Description: 9209-MW22 | **Lab Sample ID:** C103164-04 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 08:10 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 04:44	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 04:44	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 04:44	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 04:44	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 04:44	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 04:44	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 04:44	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 04:44	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 04:44	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 04:44	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 04:44	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 04:44*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 04:44*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 04:44*	*jkg*	

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Description: 9209-MW22 | **Lab Sample ID:** C103164-04 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 08:10 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 23:25	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*42*	*1*	*50.0*	*83 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 23:25*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*83 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 23:25*	*DFM*	
Terphenyl-d14	*32*	*1*	*50.0*	*65 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 23:25*	*DFM*	

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Description: 9209-MW22 | **Lab Sample ID:** C103164-04 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 08:10 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:30	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 16:30	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:30	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 16:30	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 16:30	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 16:30	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 16:30	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 16:30	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:30	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 16:30	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:30	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 16:30	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 16:30	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 16:30	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.99*	*1*	*1.00*	*99 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 16:30*	*MSZ*	
Decachlorobiphenyl	*0.45*	*1*	*1.00*	*45 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 16:30*	*MSZ*	

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Description: 9209-MW22
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-04
Sampled: 03/18/11 08:10
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 14:52	NLH	

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Description: 9209-MW22 | **Lab Sample ID:** C103164-04 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 08:10 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:43	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:44	JDH	
Barium [7440-39-3] ^	**40.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:44	JDH	
Beryllium [7440-41-7] ^	**0.105**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:44	JDH	
Cadmium [7440-43-9] ^	**2.21**		ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:44	JDH	
Chromium [7440-47-3] ^	**4.10**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:44	JDH	
Cobalt [7440-48-4] ^	**14.8**		ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:44	JDH	
Copper [7440-50-8] ^	**2.71**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:44	JDH	
Lead [7439-92-1] ^	**3.69**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:44	JDH	
Nickel [7440-02-0] ^	**7.49**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:44	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:43	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:44	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:43	VLO	
Vanadium [7440-62-2] ^	**4.89**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:44	JDH	
Zinc [7440-66-6] ^	**16.1**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:00	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW23 | **Lab Sample ID:** C103164-05 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:05 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 05:13	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 05:13	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 05:13	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 05:13	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 05:13	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 05:13	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 05:13	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 05:13	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 05:13	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 05:13	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 05:13	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 05:13	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 05:13	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 05:13	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 05:13	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 05:13	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 05:13	jkg	

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Description: 9209-MW23 | **Lab Sample ID:** C103164-05 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:05 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 05:13	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 05:13	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 05:13	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 05:13	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 05:13	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 05:13	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 05:13	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 05:13	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 05:13	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 05:13	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 05:13	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*101 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 05:13*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 05:13*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 05:13*	*jkg*	

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Description: 9209-MW23 | **Lab Sample ID:** C103164-05 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:05 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/29/11 23:51	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 23:51*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/29/11 23:51*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*79 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/29/11 23:51*	*DFM*	

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Description: 9209-MW23
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-05
Sampled: 03/18/11 12:05
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 14:55	NLH	

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Description: 9209-MW23 | **Lab Sample ID:** C103164-05 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:05 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:47	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:46	JDH	
Barium [7440-39-3] ^	**43.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:46	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:46	JDH	
Chromium [7440-47-3] ^	**5.52**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:46	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:46	JDH	
Copper [7440-50-8] ^	**9.92**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:46	JDH	
Lead [7439-92-1] ^	**6.42**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:46	JDH	
Nickel [7440-02-0] ^	**3.64**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:46	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:46	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:47	VLO	
Vanadium [7440-62-2] ^	**11.4**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:46	JDH	
Zinc [7440-66-6] ^	**23.7**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:02	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-06
Sampled: 03/17/11 13:20
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 05:42	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 05:42	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 05:42	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 05:42	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 05:42	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 05:42	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 05:42	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 05:42	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 05:42	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 05:42	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 05:42	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 05:42	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 05:42	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 05:42	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 05:42	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 05:42	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 05:42	jkg	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-06
Sampled: 03/17/11 13:20
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 05:42	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 05:42	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 05:42	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 05:42	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 05:42	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 05:42	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 05:42	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 05:42	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 05:42	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 05:42	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 05:42	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 05:42*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 05:42*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 05:42*	*jkg*	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-06
Sampled: 03/17/11 13:20
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 00:15	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 00:15*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 00:15*	*DFM*	
Terphenyl-d14	*32*	*1*	*50.0*	*63 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 00:15*	*DFM*	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-06
Sampled: 03/17/11 13:20
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 14:58	NLH	

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Description: 9209-MW23d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-06
Sampled: 03/17/11 13:20
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.561**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:51	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:48	JDH	
Barium [7440-39-3] ^	**41.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:48	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:48	JDH	
Chromium [7440-47-3] ^	**4.14**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:48	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:48	JDH	
Copper [7440-50-8] ^	**4.38**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:48	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:48	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:48	JDH	
Selenium [7782-49-2] ^	**1.04**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:51	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:48	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:51	VLO	
Vanadium [7440-62-2] ^	**5.04**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:48	JDH	
Zinc [7440-66-6] ^	**5.36**	J	ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:04	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW24 | **Lab Sample ID:** C103164-07 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:15 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 06:11	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 06:11	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 06:11	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 06:11	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 06:11	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 06:11	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 06:11	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 06:11	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 06:11	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 06:11	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 06:11	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 06:11	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 06:11	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 06:11	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
Chloroform [67-66-3] ^	**13**		ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 06:11	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 06:11	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 06:11	jkg	

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Description: 9209-MW24 | **Lab Sample ID:** C103164-07 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:15 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 06:11	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 06:11	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 06:11	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 06:11	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 06:11	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 06:11	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 06:11	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 06:11	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 06:11	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 06:11	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 06:11	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 06:11*	*jkg*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 06:11*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 06:11*	*jkg*	

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Description: 9209-MW24 | **Lab Sample ID:** C103164-07 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:15 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 00:40	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 00:40*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*85 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 00:40*	*DFM*	
Terphenyl-d14	*32*	*1*	*50.0*	*65 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 00:40*	*DFM*	

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Description:	9209-MW24	**Lab Sample ID:**	C103164-07	**Received:**	03/18/11 13:15
Matrix:	Ground Water	**Sampled:**	03/18/11 12:15	**Work Order:**	C103164
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:01	NLH	

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Description: 9209-MW24 | **Lab Sample ID:** C103164-07 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 12:15 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:54	VLO	
Arsenic [7440-38-2] ^	**3.98**	J	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:50	JDH	
Barium [7440-39-3] ^	**33.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:50	JDH	
Chromium [7440-47-3] ^	**2.17**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:50	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:50	JDH	
Copper [7440-50-8] ^	**2.92**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:50	JDH	
Lead [7439-92-1] ^	**3.62**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:50	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:50	JDH	
Selenium [7782-49-2] ^	**1.13**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:54	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:54	VLO	
Vanadium [7440-62-2] ^	**4.25**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:50	JDH	
Zinc [7440-66-6] ^	**27.1**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:12	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW28 | **Lab Sample ID:** C103164-08 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 11:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 06:40	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 06:40	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 06:40	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 06:40	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 06:40	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 06:40	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 06:40	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 06:40	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 06:40	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 06:40	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 06:40	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 06:40	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 06:40	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 06:40	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 06:40	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 06:40	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 06:40	jkg	

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Description: 9209-MW28 | **Lab Sample ID:** C103164-08 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 11:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 06:40	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 06:40	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 06:40	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 06:40	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 06:40	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 06:40	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 06:40	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 06:40	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 06:40	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 06:40	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 06:40	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 06:40*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 06:40*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 06:40*	*jkg*	

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Description: 9209-MW28 | **Lab Sample ID:** C103164-08 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 11:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:44	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 16:44	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:44	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 16:44	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 16:44	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 16:44	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 16:44	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 16:44	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 16:44	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 16:44	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 16:44	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 16:44	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 16:44	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 16:44	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*100 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 16:44*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*106 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 16:44*	*MSZ*	

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Description: 9209-MW28
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-08
Sampled: 03/18/11 11:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:04	NLH	

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Description: 9209-MW28 | **Lab Sample ID:** C103164-08 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 11:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 11:58	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:52	JDH	
Barium [7440-39-3] ^	**51.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:52	JDH	
Chromium [7440-47-3] ^	**9.81**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:52	JDH	
Cobalt [7440-48-4] ^	**1.82**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:52	JDH	
Copper [7440-50-8] ^	**2.29**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:52	JDH	
Lead [7439-92-1] ^	**5.21**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:52	JDH	
Nickel [7440-02-0] ^	**2.92**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:52	JDH	
Selenium [7782-49-2] ^	**1.45**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 11:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:52	JDH	
Thallium [7440-28-0] ^	**0.179**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 11:58	VLO	
Vanadium [7440-62-2] ^	**14.0**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:52	JDH	
Zinc [7440-66-6] ^	**40.5**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:14	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-09
Sampled: 03/18/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 07:09	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 07:09	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 07:09	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 07:09	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 07:09	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 07:09	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 07:09	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 07:09	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 07:09	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 07:09	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 07:09	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 07:09	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 07:09	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 07:09	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 07:09	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 07:09	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 07:09	jkg	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-09
Sampled: 03/18/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 07:09	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 07:09	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 07:09	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 07:09	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 07:09	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 07:09	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 07:09	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 07:09	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 07:09	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 07:09	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 07:09	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 07:09*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 07:09*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 07:09*	*jkg*	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-09
Sampled: 03/18/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 01:05	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*43*	*1*	*50.0*	*85 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 01:05*	*DFM*	
Nitrobenzene-d5	*43*	*1*	*50.0*	*86 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 01:05*	*DFM*	
Terphenyl-d14	*35*	*1*	*50.0*	*71 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 01:05*	*DFM*	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-09
Sampled: 03/18/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:12	NLH	

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Description: 9209-MW28d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-09
Sampled: 03/18/11 11:10
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 12:09	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:54	JDH	
Barium [7440-39-3] ^	**14.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:54	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:54	JDH	
Chromium [7440-47-3] ^	**4.17**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:54	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:54	JDH	
Copper [7440-50-8] ^	**2.91**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:54	JDH	
Lead [7439-92-1] ^	**2.31**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:54	JDH	
Nickel [7440-02-0] ^	**2.08**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:54	JDH	
Selenium [7782-49-2] ^	**1.59**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 12:09	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:54	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 12:09	VLO	
Vanadium [7440-62-2] ^	**4.96**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:54	JDH	
Zinc [7440-66-6] ^	**16.8**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:16	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-10
Sampled: 03/18/11 10:45
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 07:39	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 07:39	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 07:39	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 07:39	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 07:39	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 07:39	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 07:39	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 07:39	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 07:39	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 07:39	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 07:39	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 07:39	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 07:39	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 07:39	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 07:39	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 07:39	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 07:39	jkg	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-10
Sampled: 03/18/11 10:45
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 07:39	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 07:39	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 07:39	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 07:39	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 07:39	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 07:39	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 07:39	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 07:39	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 07:39	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 07:39	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 07:39	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 07:39*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 07:39*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 07:39*	*jkg*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-10
Sampled: 03/18/11 10:45
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**1.8**	J	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 01:31	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 01:31*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 01:31*	*DFM*	
Terphenyl-d14	*27*	*1*	*50.0*	*54 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 01:31*	*DFM*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-10
Sampled: 03/18/11 10:45
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:00	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 17:00	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:00	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 17:00	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 17:00	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 17:00	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 17:00	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:00	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:00	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 17:00	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:00	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:00	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 17:00	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 17:00	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.98*	*1*	*1.00*	*98 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 17:00*	*MSZ*	
Decachlorobiphenyl	*0.45*	*1*	*1.00*	*45 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 17:00*	*MSZ*	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-10
Sampled: 03/18/11 10:45
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:15	NLH	

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Description: 9209-MW29d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-10
Sampled: 03/18/11 10:45
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.391**	J	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 12:13	VLO	
Arsenic [7440-38-2] ^	**3.08**	J	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 10:56	JDH	
Barium [7440-39-3] ^	**54.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 10:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 10:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 10:56	JDH	
Chromium [7440-47-3] ^	**9.57**	J	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 10:56	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 10:56	JDH	
Copper [7440-50-8] ^	**16.2**		ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 10:56	JDH	
Lead [7439-92-1] ^	**4.09**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:56	JDH	
Nickel [7440-02-0] ^	**4.15**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 10:56	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 12:13	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 10:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 12:13	VLO	
Vanadium [7440-62-2] ^	**7.40**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 10:56	JDH	
Zinc [7440-66-6] ^	**15.5**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:18	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW30 | **Lab Sample ID:** C103164-11 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 10:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 16:18	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 16:18	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 16:18	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 16:18	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 16:18	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 16:18	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 16:18	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 16:18	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 16:18	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 16:18	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 16:18	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 16:18	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 16:18	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 16:18	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 16:18	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 16:18	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 16:18	jkg	

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Description: 9209-MW30 | **Lab Sample ID:** C103164-11 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 10:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 16:18	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 16:18	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 16:18	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 16:18	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 16:18	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 16:18	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 16:18	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 16:18	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 16:18	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 16:18	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 16:18	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1C25005*	*EPA 8260B*	*03/25/11 16:18*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1C25005*	*EPA 8260B*	*03/25/11 16:18*	*jkg*	
Toluene-d8	*53*	*1*	*50.0*	*107 %*	*69-110*	*1C25005*	*EPA 8260B*	*03/25/11 16:18*	*jkg*	

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Description: 9209-MW30 | **Lab Sample ID:** C103164-11 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 10:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:14	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 17:14	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:14	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 17:14	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 17:14	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 17:14	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 17:14	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:14	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:14	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 17:14	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:14	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:14	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 17:14	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 17:14	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.91*	*1*	*1.00*	*91 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 17:14*	*MSZ*	
Decachlorobiphenyl	*0.70*	*1*	*1.00*	*70 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 17:14*	*MSZ*	

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Description:	9209-MW30	**Lab Sample ID:**	C103164-11	**Received:**	03/18/11 13:15
Matrix:	Ground Water	**Sampled:**	03/18/11 10:00	**Work Order:**	C103164
Project:	North Wake Unlined Landfill	**Sampled By:**	Aaron Weispfenning		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:18	NLH	

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Description: 9209-MW30 | **Lab Sample ID:** C103164-11 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 10:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 12:17	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 11:05	JDH	
Barium [7440-39-3] ^	**91.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 11:05	JDH	
Beryllium [7440-41-7] ^	**0.202**	J	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 11:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 11:05	JDH	
Chromium [7440-47-3] ^	**29.0**		ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 11:05	JDH	
Cobalt [7440-48-4] ^	**4.25**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 11:05	JDH	
Copper [7440-50-8] ^	**37.1**		ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 11:05	JDH	
Lead [7439-92-1] ^	**8.69**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:05	JDH	
Nickel [7440-02-0] ^	**11.2**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 11:05	JDH	
Selenium [7782-49-2] ^	**1.12**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 12:17	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 12:17	VLO	
Vanadium [7440-62-2] ^	**27.0**		ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 11:05	JDH	
Zinc [7440-66-6] ^	**37.1**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:20	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-12
Sampled: 03/18/11 09:15
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 08:37	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,1-Dichloroethane [75-34-3] ^	**8.8**		ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 08:37	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 08:37	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 08:37	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 08:37	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 08:37	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 08:37	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 08:37	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 08:37	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 08:37	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 08:37	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 08:37	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 08:37	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 08:37	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 08:37	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**5.2**		ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 08:37	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
Dichlorodifluoromethane [75-71-8] ^	**1.4**	J	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 08:37	jkg	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-12
Sampled: 03/18/11 09:15
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 08:37	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 08:37	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 08:37	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 08:37	jkg	
Methylene chloride [75-09-2] ^	**1.0**		ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 08:37	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 08:37	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Tetrachloroethene [127-18-4] ^	**1.0**		ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 08:37	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 08:37	jkg	
Trichloroethene [79-01-6] ^	**1.7**		ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 08:37	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 08:37	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 08:37	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 08:37*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 08:37*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 08:37*	*jkg*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-12
Sampled: 03/18/11 09:15
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 06:28	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 06:28*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 06:28*	*DFM*	
Terphenyl-d14	*38*	*1*	*50.0*	*77 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 06:28*	*DFM*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-12
Sampled: 03/18/11 09:15
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:29	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 17:29	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:29	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 17:29	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 17:29	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 17:29	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 17:29	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:29	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:29	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 17:29	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:29	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:29	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 17:29	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 17:29	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*110 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 17:29*	*MSZ*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 17:29*	*MSZ*	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-12
Sampled: 03/18/11 09:15
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:21	NLH	

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Description: 9209-MW36d
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-12
Sampled: 03/18/11 09:15
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 12:21	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 11:06	JDH	
Barium [7440-39-3] ^	**98.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 11:06	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 11:06	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 11:06	JDH	
Chromium [7440-47-3] ^	**32.3**		ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 11:06	JDH	
Cobalt [7440-48-4] ^	**2.00**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 11:06	JDH	
Copper [7440-50-8] ^	**32.5**		ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 11:06	JDH	
Lead [7439-92-1] ^	**4.80**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:06	JDH	
Nickel [7440-02-0] ^	**15.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 11:06	JDH	
Selenium [7782-49-2] ^	**1.73**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 12:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:06	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 12:21	VLO	
Vanadium [7440-62-2] ^	**29.3**		ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 11:06	JDH	
Zinc [7440-66-6] ^	**17.8**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:22	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-DUP | **Lab Sample ID:** C103164-13 | **Received:** 03/18/11 13:15

Matrix: Ground Water | **Sampled:** 03/18/11 07:00 | **Work Order:** C103164

Project: North Wake Unlined Landfill | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 09:06	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,1-Dichloroethane [75-34-3] ^	**8.9**		ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 09:06	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 09:06	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 09:06	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 09:06	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 09:06	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 09:06	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 09:06	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 09:06	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 09:06	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 09:06	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 09:06	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 09:06	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 09:06	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 09:06	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**5.1**		ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 09:06	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
Dichlorodifluoromethane [75-71-8] ^	**1.2**	J	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 09:06	jkg	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-13
Sampled: 03/18/11 07:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 09:06	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 09:06	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 09:06	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 09:06	jkg	
Methylene chloride [75-09-2] ^	**1.1**		ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 09:06	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 09:06	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Tetrachloroethene [127-18-4] ^	**1.1**		ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 09:06	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 09:06	jkg	
Trichloroethene [79-01-6] ^	**1.7**		ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 09:06	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 09:06	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 09:06	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C24024*	*EPA 8260B*	*03/25/11 09:06*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*68-117*	*1C24024*	*EPA 8260B*	*03/25/11 09:06*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*69-110*	*1C24024*	*EPA 8260B*	*03/25/11 09:06*	*jkg*	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-13
Sampled: 03/18/11 07:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 06:53	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*42*	*1*	*50.0*	*83 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 06:53*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 06:53*	*DFM*	
Terphenyl-d14	*34*	*1*	*50.0*	*69 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 06:53*	*DFM*	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-13
Sampled: 03/18/11 07:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:45	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 17:45	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:45	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 17:45	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 17:45	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 17:45	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 17:45	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:45	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 17:45	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 17:45	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 17:45	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 17:45	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 17:45	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 17:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*110 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 17:45*	*MSZ*	
Decachlorobiphenyl	*-0.026*	*1*	*1.00*	*%*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 17:45*	*MSZ*	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-13
Sampled: 03/18/11 07:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:24	NLH	

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Description: 9209-DUP
Matrix: Ground Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-13
Sampled: 03/18/11 07:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 12:24	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 11:08	JDH	
Barium [7440-39-3] ^	**88.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 11:08	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 11:08	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 11:08	JDH	
Chromium [7440-47-3] ^	**27.1**		ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 11:08	JDH	
Cobalt [7440-48-4] ^	**1.35**	J	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 11:08	JDH	
Copper [7440-50-8] ^	**27.3**		ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 11:08	JDH	
Lead [7439-92-1] ^	**2.51**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:08	JDH	
Nickel [7440-02-0] ^	**12.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 11:08	JDH	
Selenium [7782-49-2] ^	**0.845**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 12:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:08	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 12:24	VLO	
Vanadium [7440-62-2] ^	**24.5**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 11:08	JDH	
Zinc [7440-66-6] ^	**14.2**		ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:24	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-14
Sampled: 03/18/11 07:30
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/25/11 16:48	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/25/11 16:48	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	03/25/11 16:48	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/25/11 16:48	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/25/11 16:48	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/25/11 16:48	jkg	
Acetone [67-64-1] ^	**4.0**	J	ug/L	1	1.2	5.0	100	EPA 8260B	03/25/11 16:48	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	03/25/11 16:48	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	03/25/11 16:48	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/25/11 16:48	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/25/11 16:48	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/25/11 16:48	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/25/11 16:48	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/25/11 16:48	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	03/25/11 16:48	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/25/11 16:48	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	03/25/11 16:48	jkg	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-14
Sampled: 03/18/11 07:30
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/25/11 16:48	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	03/25/11 16:48	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	03/25/11 16:48	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	03/25/11 16:48	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	03/25/11 16:48	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	03/25/11 16:48	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/25/11 16:48	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/25/11 16:48	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/25/11 16:48	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/25/11 16:48	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/25/11 16:48	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1C25005*	*EPA 8260B*	*03/25/11 16:48*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*1C25005*	*EPA 8260B*	*03/25/11 16:48*	*jkg*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*69-110*	*1C25005*	*EPA 8260B*	*03/25/11 16:48*	*jkg*	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-14
Sampled: 03/18/11 07:30
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	03/30/11 07:18	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 07:18*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*1C23001*	*EPA 8270D*	*03/30/11 07:18*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*89 %*	*10-188*	*1C23001*	*EPA 8270D*	*03/30/11 07:18*	*DFM*	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-14
Sampled: 03/18/11 07:30
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 18:01	MSZ	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0.05	EPA 8081B	03/23/11 18:01	MSZ	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 18:01	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	03/23/11 18:01	MSZ	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	NE	EPA 8081B	03/23/11 18:01	MSZ	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	NE	EPA 8081B	03/23/11 18:01	MSZ	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0.05	EPA 8081B	03/23/11 18:01	MSZ	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 18:01	MSZ	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0.1	EPA 8081B	03/23/11 18:01	MSZ	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0.05	EPA 8081B	03/23/11 18:01	MSZ	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0.05	EPA 8081B	03/23/11 18:01	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0.075	EPA 8081B	03/23/11 18:01	MSZ	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	1	EPA 8081B	03/23/11 18:01	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	03/23/11 18:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.90*	*1*	*1.00*	*90 %*	*44-134*	*1C22020*	*EPA 8081B*	*03/23/11 18:01*	*MSZ*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*37-149*	*1C22020*	*EPA 8081B*	*03/23/11 18:01*	*MSZ*	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-14
Sampled: 03/18/11 07:30
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	03/22/11 15:28	NLH	

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Description: 9209-EQBlank
Matrix: Water
Project: North Wake Unlined Landfill

Lab Sample ID: C103164-14
Sampled: 03/18/11 07:30
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:15
Work Order: C103164

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 12:28	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 11:11	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 11:11	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 11:11	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 11:11	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 11:11	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 11:11	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 11:11	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:11	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 11:11	JDH	
Selenium [7782-49-2] ^	**1.19**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 12:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 11:11	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 12:28	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 11:11	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/24/11 13:26	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C23003 - EPA 5030B_MS

Blank (1C23003-BLK1) Prepared: 03/23/2011 07:46 Analyzed: 03/23/2011 09:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C23003 - EPA 5030B_MS

Blank (1C23003-BLK1) Continued Prepared: 03/23/2011 07:46 Analyzed: 03/23/2011 09:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*69-110*			

LCS (1C23003-BS1) Prepared: 03/23/2011 07:46 Analyzed: 03/23/2011 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		107	75-133			
Benzene	21		1.0	ug/L	20.0		103	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		99	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

Matrix Spike (1C23003-MS1) Prepared: 03/23/2011 07:46 Analyzed: 03/23/2011 10:35

Source: C103184-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	114	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	108	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	101	83-117			
Toluene	21		1.0	ug/L	20.0	0.85 U	103	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.72 U	119	75-115			QM-07
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

Matrix Spike Dup (1C23003-MSD1) Prepared: 03/23/2011 07:46 Analyzed: 03/23/2011 11:04

Source: C103184-10

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C23003 - EPA 5030B_MS

Matrix Spike Dup (1C23003-MSD1) Continued Prepared: 03/23/2011 07:46 Analyzed: 03/23/2011 11:04

Source: C103184-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	110	75-133	3	20	
Benzene	21		1.0	ug/L	20.0	0.68 U	107	81-134	1	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	103	83-117	2	16	
Toluene	20		1.0	ug/L	20.0	0.85 U	102	71-118	1	17	
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	110	75-115	8	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

Batch 1C23032 - EPA 5030B_MS

Blank (1C23032-BLK1) Prepared: 03/23/2011 13:23 Analyzed: 03/23/2011 22:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C23032 - EPA 5030B_MS

Blank (1C23032-BLK1) Continued Prepared: 03/23/2011 13:23 Analyzed: 03/23/2011 22:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

LCS (1C23032-BS1) Prepared: 03/23/2011 13:23 Analyzed: 03/23/2011 22:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		113	75-133			
Benzene	22		1.0	ug/L	20.0		108	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	22		1.0	ug/L	20.0		110	75-115			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C23032 - EPA 5030B_MS

Matrix Spike (1C23032-MS1) Prepared: 03/23/2011 13:23 Analyzed: 03/23/2011 23:09

Source: C103184-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	110	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.74 U	108	83-117			
Toluene	21		1.0	ug/L	20.0	0.85 U	104	71-118			
Trichloroethene	23		1.0	ug/L	20.0	0.72 U	115	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

Matrix Spike Dup (1C23032-MSD1) Prepared: 03/23/2011 13:23 Analyzed: 03/23/2011 23:38

Source: C103184-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.60 U	106	75-133	6	20	
Benzene	20		1.0	ug/L	20.0	0.68 U	101	81-134	9	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.74 U	88	83-117	21	16	QM-11
Toluene	17		1.0	ug/L	20.0	0.85 U	86	71-118	19	17	QM-11
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	105	75-115	9	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

Batch 1C24002 - EPA 5030B_MS

Blank (1C24002-BLK1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24002 - EPA 5030B_MS

Blank (1C24002-BLK1) Continued Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24002 - EPA 5030B_MS

LCS (1C24002-BS1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 10:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	75-133			
Benzene	21		1.0	ug/L	20.0		105	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	21		1.0	ug/L	20.0		105	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

Matrix Spike (1C24002-MS1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 11:28

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	108	75-133			
Benzene	21		1.0	ug/L	20.0	0.68 U	103	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.74 U	90	83-117			
Toluene	17		1.0	ug/L	20.0	0.85 U	86	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	104	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

Matrix Spike Dup (1C24002-MSD1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 11:58

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.60 U	121	75-133	11	20	
Benzene	23		1.0	ug/L	20.0	0.68 U	114	81-134	11	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	96	83-117	6	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	94	71-118	8	17	
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	112	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

Batch 1C24024 - EPA 5030B_MS

Blank (1C24024-BLK1) Prepared: 03/24/2011 12:34 Analyzed: 03/24/2011 23:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24024 - EPA 5030B_MS

Blank (1C24024-BLK1) Continued Prepared: 03/24/2011 12:34 Analyzed: 03/24/2011 23:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24024 - EPA 5030B_MS

Blank (1C24024-BLK1) Continued Prepared: 03/24/2011 12:34 Analyzed: 03/24/2011 23:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

LCS (1C24024-BS1) Prepared: 03/24/2011 12:34 Analyzed: 03/24/2011 23:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		113	75-133			
Benzene	22		1.0	ug/L	20.0		109	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	19		1.0	ug/L	20.0		94	71-118			
Trichloroethene	22		1.0	ug/L	20.0		108	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*107*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

Matrix Spike (1C24024-MS1) Prepared: 03/24/2011 12:34 Analyzed: 03/25/2011 00:21

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	112	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	109	81-134			
Chlorobenzene	17		1.0	ug/L	20.0	0.74 U	87	83-117			
Toluene	18		1.0	ug/L	20.0	0.85 U	88	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	111	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*69-110*			

Matrix Spike Dup (1C24024-MSD1) Prepared: 03/24/2011 12:34 Analyzed: 03/25/2011 00:50

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.60 U	119	75-133	6	20	
Benzene	22		1.0	ug/L	20.0	0.68 U	112	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	94	83-117	7	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	93	71-118	6	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24024 - EPA 5030B_MS

Matrix Spike Dup (1C24024-MSD1) Continued Prepared: 03/24/2011 12:34 Analyzed: 03/25/2011 00:50

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	112	75-115	0.5	18	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

Batch 1C25005 - EPA 5030B_MS

Blank (1C25005-BLK1) Prepared: 03/25/2011 08:06 Analyzed: 03/25/2011 13:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C25005 - EPA 5030B_MS

Blank (1C25005-BLK1) Continued Prepared: 03/25/2011 08:06 Analyzed: 03/25/2011 13:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

LCS (1C25005-BS1) Prepared: 03/25/2011 08:06 Analyzed: 03/25/2011 13:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		122	75-133			
Benzene	23		1.0	ug/L	20.0		113	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	19		1.0	ug/L	20.0		94	71-118			
Trichloroethene	22		1.0	ug/L	20.0		109	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*107*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*69-110*			

Matrix Spike (1C25005-MS1) Prepared: 03/25/2011 08:06 Analyzed: 03/25/2011 14:21

Source: C103666-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C25005 - EPA 5030B_MS

Matrix Spike (1C25005-MS1) Continued Prepared: 03/25/2011 08:06 Analyzed: 03/25/2011 14:21

Source: C103666-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	113	75-133			
Benzene	21		1.0	ug/L	20.0	0.68 U	105	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	93	83-117			
Toluene	18		1.0	ug/L	20.0	0.85 U	90	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	109	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

Matrix Spike Dup (1C25005-MSD1) Prepared: 03/25/2011 08:06 Analyzed: 03/25/2011 14:50

Source: C103666-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	114	75-133	0.6	20	
Benzene	21		1.0	ug/L	20.0	0.68 U	107	81-134	1	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.74 U	90	83-117	4	16	
Toluene	18		1.0	ug/L	20.0	0.85 U	90	71-118	0.4	17	
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	106	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*107*	*69-110*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1C23001 - EPA 3510C_MS

Blank (1C23001-BLK1) Prepared: 03/23/2011 07:07 Analyzed: 03/29/2011 17:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*99*			*ug/L*	*100*		*99*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*44*			*ug/L*	*50.0*		*88*	*10-149*			
Surrogate: 2-Fluorophenol	*67*			*ug/L*	*100*		*67*	*10-110*			
Surrogate: Nitrobenzene-d5	*45*			*ug/L*	*50.0*		*89*	*10-149*			
Surrogate: Phenol-d5	*57*			*ug/L*	*100*		*57*	*10-88*			
Surrogate: Terphenyl-d14	*49*			*ug/L*	*50.0*		*98*	*10-188*			

LCS (1C23001-BS1) Prepared: 03/23/2011 07:07 Analyzed: 03/29/2011 17:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	42		10	ug/L	50.0		83	40-109			
4-Chloro-3-methylphenol	47		10	ug/L	50.0		95	58-121			
4-Nitrophenol	37		10	ug/L	50.0		75	33-105			
Acenaphthene	40		10	ug/L	50.0		80	39-125			
N-Nitroso-di-n-propylamine	44		10	ug/L	50.0		87	48-126			
Phenol	29		10	ug/L	50.0		58	19-78			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1C23001 - EPA 3510C_MS

LCS (1C23001-BS1) Continued Prepared: 03/23/2011 07:07 Analyzed: 03/29/2011 17:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pyrene	46		10	ug/L	50.0		92	44-137			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*101*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: Phenol-d5	*54*			*ug/L*	*100*		*54*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*88*	*10-188*			

Matrix Spike (1C23001-MS1) Prepared: 03/23/2011 07:07 Analyzed: 03/29/2011 17:58

Source: C103184-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	41		10	ug/L	50.0	1.2 U	83	40-109			
4-Chloro-3-methylphenol	48		10	ug/L	50.0	1.5 U	95	58-121			
4-Nitrophenol	39		10	ug/L	50.0	2.0 U	78	33-105			
Acenaphthene	38		10	ug/L	50.0	1.4 U	76	39-125			
N-Nitroso-di-n-propylamine	43		10	ug/L	50.0	1.5 U	87	48-126			
Phenol	27		10	ug/L	50.0	1.4 U	55	19-78			
Pyrene	46		10	ug/L	50.0	2.1 U	92	44-137			
Surrogate: 2,4,6-Tribromophenol	*98*			*ug/L*	*100*		*98*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*82*	*10-149*			
Surrogate: 2-Fluorophenol	*64*			*ug/L*	*100*		*64*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*88*	*10-188*			

Matrix Spike Dup (1C23001-MSD1) Prepared: 03/23/2011 07:07 Analyzed: 03/29/2011 18:23

Source: C103184-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	81	40-109	2	22	
4-Chloro-3-methylphenol	46		10	ug/L	50.0	1.5 U	93	58-121	3	22	
4-Nitrophenol	38		10	ug/L	50.0	2.0 U	76	33-105	3	27	
Acenaphthene	39		10	ug/L	50.0	1.4 U	78	39-125	2	25	
N-Nitroso-di-n-propylamine	43		10	ug/L	50.0	1.5 U	85	48-126	2	23	
Phenol	28		10	ug/L	50.0	1.4 U	56	19-78	3	18	
Pyrene	45		10	ug/L	50.0	2.1 U	90	44-137	2	24	
Surrogate: 2,4,6-Tribromophenol	*99*			*ug/L*	*100*		*99*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*82*	*10-149*			
Surrogate: 2-Fluorophenol	*64*			*ug/L*	*100*		*64*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*86*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 1C22020 - EPA 3510C

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Blank (1C22020-BLK1) Prepared: 03/22/2011 10:40 Analyzed: 03/23/2011 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.014	U	0.050	ug/L							
Chlordane-gamma	0.012	U	0.050	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Methoxychlor	0.016	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*106*	*37-149*			

LCS (1C22020-BS1) Prepared: 03/22/2011 10:40 Analyzed: 03/23/2011 13:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		112	35-142			
Dieldrin	0.98		0.050	ug/L	1.00		98	46-132			
Endrin	1.0		0.050	ug/L	1.00		100	43-133			
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*100*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*112*	*37-149*			

Matrix Spike (1C22020-MS1) Prepared: 03/22/2011 10:40 Analyzed: 03/23/2011 13:16

Source: C102873-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.2		0.050	ug/L	1.00	0.015 U	123	35-142			
Dieldrin	1.1		0.050	ug/L	1.00	0.0089 U	111	46-132			
Endrin	1.1		0.050	ug/L	1.00	0.013 U	112	43-133			
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*107*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*119*	*37-149*			

Matrix Spike Dup (1C22020-MSD1) Prepared: 03/22/2011 10:40 Analyzed: 03/23/2011 13:29

Source: C102873-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.015 U	110	35-142	11	34	

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 1C22020 - EPA 3510C

Matrix Spike Dup (1C22020-MSD1) Continued Prepared: 03/22/2011 10:40 Analyzed: 03/23/2011 13:29

Source: C102873-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dieldrin	1.0		0.050	ug/L	1.00	0.0089 U	100	46-132	10	27	
Endrin	1.0		0.050	ug/L	1.00	0.013 U	101	43-133	11	26	
Surrogate: 2,4,5,6-TCMX	*0.93*			*ug/L*	*1.00*		*93*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*107*	*37-149*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1C21015 - EPA 245.1

Blank (1C21015-BLK1) Prepared: 03/21/2011 10:26 Analyzed: 03/21/2011 15:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1C21015-BS1) Prepared: 03/21/2011 10:26 Analyzed: 03/21/2011 15:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.06		0.200	ug/L	5.00		101	85-115			

Matrix Spike (1C21015-MS1) Prepared: 03/21/2011 10:26 Analyzed: 03/21/2011 15:48

Source: C102818-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.85		0.200	ug/L	5.00	0.170 U	97	85-115			

Matrix Spike Dup (1C21015-MSD1) Prepared: 03/21/2011 10:26 Analyzed: 03/21/2011 15:51

Source: C102818-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.79		0.200	ug/L	5.00	0.170 U	96	85-115	1	15	

Post Spike (1C21015-PS1) Prepared: 03/21/2011 10:26 Analyzed: 03/21/2011 15:54

Source: C102818-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.13		0.200	ug/L	5.00	-0.0316	83	75-125			

Batch 1C22015 - EPA 245.1

Blank (1C22015-BLK1) Prepared: 03/22/2011 09:58 Analyzed: 03/22/2011 14:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1C22015-BS1) Prepared: 03/22/2011 09:58 Analyzed: 03/22/2011 14:04

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1C22015 - EPA 245.1

LCS (1C22015-BS1) Continued Prepared: 03/22/2011 09:58 Analyzed: 03/22/2011 14:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.16		0.200	ug/L	5.00		103	85-115			

Matrix Spike (1C22015-MS1) Prepared: 03/22/2011 09:58 Analyzed: 03/22/2011 14:10

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.99		0.200	ug/L	5.00	0.170 U	100	85-115			

Matrix Spike Dup (1C22015-MSD1) Prepared: 03/22/2011 09:58 Analyzed: 03/22/2011 14:13

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.13		0.200	ug/L	5.00	0.170 U	103	85-115	3	15	

Post Spike (1C22015-PS1) Prepared: 03/22/2011 09:58 Analyzed: 03/22/2011 14:16

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.43		0.200	ug/L	5.00	0.0109	88	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C18016 - EPA 3005A

Blank (1C18016-BLK1) Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (1C18016-BS1) Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	495		10.0	ug/L	500		99	80-120			
Barium	498		10.0	ug/L	500		100	80-120			
Beryllium	251		1.00	ug/L	250		100	80-120			
Cadmium	253		1.00	ug/L	250		101	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C18016 - EPA 3005A

LCS (1C18016-BS1) Continued Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	493		10.0	ug/L	500		99	80-120			
Cobalt	515		10.0	ug/L	500		103	80-120			
Copper	245		10.0	ug/L	250		98	80-120			
Lead	503		10.0	ug/L	500		101	80-120			
Nickel	496		10.0	ug/L	500		99	80-120			
Silver	239		10.0	ug/L	250		96	80-120			
Vanadium	248		10.0	ug/L	250		99	80-120			
Zinc	514		10.0	ug/L	500		103	80-120			

Matrix Spike (1C18016-MS1) Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:21

Source: C102818-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	573		10.0	ug/L	500	2.80 U	115	75-125			
Barium	613		10.0	ug/L	500	41.1	114	75-125			
Beryllium	294		1.00	ug/L	250	0.100 U	118	75-125			
Cadmium	291		1.00	ug/L	250	0.360 U	117	75-125			
Chromium	569		10.0	ug/L	500	2.83	113	75-125			
Cobalt	589		10.0	ug/L	500	1.10 U	118	75-125			
Copper	282		10.0	ug/L	250	1.63	112	75-125			
Lead	577		10.0	ug/L	500	1.90 U	115	75-125			
Nickel	567		10.0	ug/L	500	2.22	113	75-125			
Silver	285		10.0	ug/L	250	1.90 U	114	75-125			
Vanadium	288		10.0	ug/L	250	1.65	114	75-125			
Zinc	597		10.0	ug/L	500	6.42	118	75-125			

Matrix Spike Dup (1C18016-MSD1) Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:29

Source: C102818-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	576		10.0	ug/L	500	2.80 U	115	75-125	0.5	20	
Barium	616		10.0	ug/L	500	41.1	115	75-125	0.5	20	
Beryllium	296		1.00	ug/L	250	0.100 U	118	75-125	0.7	20	
Cadmium	293		1.00	ug/L	250	0.360 U	117	75-125	0.5	20	
Chromium	572		10.0	ug/L	500	2.83	114	75-125	0.6	20	
Cobalt	594		10.0	ug/L	500	1.10 U	119	75-125	0.8	20	
Copper	284		10.0	ug/L	250	1.63	113	75-125	0.4	20	
Lead	579		10.0	ug/L	500	1.90 U	116	75-125	0.3	20	
Nickel	572		10.0	ug/L	500	2.22	114	75-125	0.9	20	
Silver	286		10.0	ug/L	250	1.90 U	115	75-125	0.5	20	
Vanadium	290		10.0	ug/L	250	1.65	115	75-125	0.7	20	
Zinc	578		10.0	ug/L	500	6.42	114	75-125	3	20	

Post Spike (1C18016-PS1) Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:31

Source: C102818-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C18016 - EPA 3005A

Post Spike (1C18016-PS1) Continued Prepared: 03/18/2011 10:47 Analyzed: 03/22/2011 11:31

Source: C102818-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.12		0.0100	mg/L	1.00	0.000209	112	80-120			
Barium	1.16		0.0100	mg/L	1.00	0.0411	111	80-120			
Beryllium	0.563		0.00100	mg/L	0.500	-3.76E-5	113	80-120			
Cadmium	0.568		0.00100	mg/L	0.500	-0.000139	114	80-120			
Chromium	1.12		0.0100	mg/L	1.00	0.00283	111	80-120			
Cobalt	1.10		0.0100	mg/L	1.00	-2.65E-5	110	80-120			
Copper	0.559		0.0100	mg/L	0.500	0.00163	111	80-120			
Lead	1.11		0.0100	mg/L	1.00	0.00189	111	80-120			
Nickel	1.10		0.0100	mg/L	1.00	0.00222	110	80-120			
Silver	0.564		0.0100	mg/L	0.500	0.000649	113	80-120			
Vanadium	0.567		0.0100	mg/L	0.500	0.00165	113	80-120			
Zinc	1.11		0.0100	mg/L	1.00	0.00642	111	80-120			

Batch 1C19007 - EPA 3005A

Blank (1C19007-BLK1) Prepared: 03/19/2011 14:24 Analyzed: 03/21/2011 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (1C19007-BS1) Prepared: 03/19/2011 14:24 Analyzed: 03/21/2011 11:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.8		2.00	ug/L	25.0		107	80-120			
Selenium	27.5		1.00	ug/L	25.0		110	80-120			
Thallium	27.1		1.00	ug/L	25.0		108	80-120			

Matrix Spike (1C19007-MS1) Prepared: 03/19/2011 14:24 Analyzed: 03/21/2011 11:47

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.8		2.00	ug/L	25.0	0.220 U	107	80-120			
Selenium	27.2		1.00	ug/L	25.0	0.830 U	109	80-120			
Thallium	26.7		1.00	ug/L	25.0	0.267	106	80-120			

Matrix Spike Dup (1C19007-MSD1) Prepared: 03/19/2011 14:24 Analyzed: 03/21/2011 11:50

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.4		2.00	ug/L	25.0	0.220 U	109	80-120	2	20	
Selenium	28.6		1.00	ug/L	25.0	0.830 U	114	80-120	5	20	
Thallium	27.2		1.00	ug/L	25.0	0.267	108	80-120	2	20	

Post Spike (1C19007-PS1) Prepared: 03/19/2011 14:24 Analyzed: 03/21/2011 11:54

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C19007 - EPA 3005A

Post Spike (1C19007-PS1) Continued Prepared: 03/19/2011 14:24 Analyzed: 03/21/2011 11:54

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	28.5		2.00	ug/L	25.0	-0.0240	114	80-120			
Selenium	29.8		1.00	ug/L	25.0	0.735	116	80-120			
Thallium	28.6		1.00	ug/L	25.0	0.267	114	80-120			

Batch 1C21017 - EPA 3005A

Blank (1C21017-BLK1) Prepared: 03/21/2011 10:36 Analyzed: 03/23/2011 10:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							

LCS (1C21017-BS1) Prepared: 03/21/2011 10:36 Analyzed: 03/23/2011 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	568		10.0	ug/L	500		114	80-120			
Barium	577		10.0	ug/L	500		115	80-120			
Beryllium	292		1.00	ug/L	250		117	80-120			
Cadmium	295		1.00	ug/L	250		118	80-120			
Chromium	583		10.0	ug/L	500		117	80-120			
Cobalt	571		10.0	ug/L	500		114	80-120			
Copper	292		10.0	ug/L	250		117	80-120			
Lead	575		10.0	ug/L	500		115	80-120			
Nickel	575		10.0	ug/L	500		115	80-120			
Silver	299		10.0	ug/L	250		120	80-120			
Vanadium	294		10.0	ug/L	250		118	80-120			

Matrix Spike (1C21017-MS1) Prepared: 03/21/2011 10:36 Analyzed: 03/23/2011 10:18

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	577		10.0	ug/L	500	2.80 U	115	75-125			
Barium	610		10.0	ug/L	500	32.5	115	75-125			
Beryllium	298		1.00	ug/L	250	0.941	119	75-125			
Cadmium	293		1.00	ug/L	250	0.360 U	117	75-125			
Chromium	575		10.0	ug/L	500	1.00 U	115	75-125			
Cobalt	598		10.0	ug/L	500	2.05	119	75-125			
Copper	290		10.0	ug/L	250	2.55	115	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C21017 - EPA 3005A

Matrix Spike (1C21017-MS1) Continued Prepared: 03/21/2011 10:36 Analyzed: 03/23/2011 10:18

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	584		10.0	ug/L	500	2.55	116	75-125			
Nickel	573		10.0	ug/L	500	1.80 U	115	75-125			
Silver	290		10.0	ug/L	250	1.90 U	116	75-125			
Vanadium	293		10.0	ug/L	250	1.76	116	75-125			

Matrix Spike Dup (1C21017-MSD1) Prepared: 03/21/2011 10:36 Analyzed: 03/23/2011 10:20

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	565		10.0	ug/L	500	2.80 U	113	75-125	2	20	
Barium	612		10.0	ug/L	500	32.5	116	75-125	0.3	20	
Beryllium	300		1.00	ug/L	250	0.941	120	75-125	0.7	20	
Cadmium	294		1.00	ug/L	250	0.360 U	118	75-125	0.2	20	
Chromium	576		10.0	ug/L	500	1.00 U	115	75-125	0.3	20	
Cobalt	591		10.0	ug/L	500	2.05	118	75-125	1	20	
Copper	291		10.0	ug/L	250	2.55	115	75-125	0.2	20	
Lead	577		10.0	ug/L	500	2.55	115	75-125	1	20	
Nickel	573		10.0	ug/L	500	1.80 U	115	75-125	0.08	20	
Silver	290		10.0	ug/L	250	1.90 U	116	75-125	0.1	20	
Vanadium	294		10.0	ug/L	250	1.76	117	75-125	0.2	20	

Post Spike (1C21017-PS1) Prepared: 03/21/2011 10:36 Analyzed: 03/23/2011 10:21

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.15		0.0100	mg/L	1.00	0.00123	115	80-120			
Barium	1.19		0.0100	mg/L	1.00	0.0325	115	80-120			
Beryllium	0.586		0.00100	mg/L	0.500	0.000941	117	80-120			
Cadmium	0.584		0.00100	mg/L	0.500	7.51E-5	117	80-120			
Chromium	1.15		0.0100	mg/L	1.00	0.000459	115	80-120			
Cobalt	1.13		0.0100	mg/L	1.00	0.00205	113	80-120			
Copper	0.588		0.0100	mg/L	0.500	0.00255	117	80-120			
Lead	1.15		0.0100	mg/L	1.00	0.00255	114	80-120			
Nickel	1.13		0.0100	mg/L	1.00	0.000775	113	80-120			
Silver	0.572		0.0100	mg/L	0.500	0.000542	114	80-120			
Vanadium	0.589		0.0100	mg/L	0.500	0.00176	117	80-120			

Batch 1C22018 - EPA 3005A

Blank (1C22018-BLK1) Prepared: 03/22/2011 10:04 Analyzed: 03/25/2011 10:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C22018 - EPA 3005A

LCS (1C22018-BS1) Prepared: 03/22/2011 10:04 Analyzed: 03/25/2011 10:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.4		2.00	ug/L	25.0		105	80-120			
Selenium	25.8		1.00	ug/L	25.0		103	80-120			
Thallium	25.9		1.00	ug/L	25.0		103	80-120			

Matrix Spike (1C22018-MS1) Prepared: 03/22/2011 10:04 Analyzed: 03/25/2011 10:51

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.4		2.00	ug/L	25.0	0.220 U	101	80-120			
Selenium	25.6		1.00	ug/L	25.0	0.830 U	102	80-120			
Thallium	24.9		1.00	ug/L	25.0	0.110 U	100	80-120			

Matrix Spike Dup (1C22018-MSD1) Prepared: 03/22/2011 10:04 Analyzed: 03/25/2011 10:54

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0	0.220 U	105	80-120	3	20	
Selenium	26.2		1.00	ug/L	25.0	0.830 U	105	80-120	2	20	
Thallium	25.2		1.00	ug/L	25.0	0.110 U	101	80-120	1	20	

Post Spike (1C22018-PS1) Prepared: 03/22/2011 10:04 Analyzed: 03/25/2011 10:58

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	29.1		2.00	ug/L	25.0	0.0190	116	80-120			
Selenium	29.5		1.00	ug/L	25.0	0.749	115	80-120			
Thallium	28.2		1.00	ug/L	25.0	-0.116	113	80-120			

Batch 1C23035 - EPA 3005A

Blank (1C23035-BLK1) Prepared: 03/23/2011 14:38 Analyzed: 03/24/2011 12:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	3.80	U	10.0	ug/L							

LCS (1C23035-BS1) Prepared: 03/23/2011 14:38 Analyzed: 03/24/2011 12:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	489		10.0	ug/L	500		98	80-120			

LCS Dup (1C23035-BSD1) Prepared: 03/23/2011 14:38 Analyzed: 03/24/2011 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	506		10.0	ug/L	500		101	80-120	3	20	

Post Spike (1C23035-PS1) Prepared: 03/23/2011 14:38 Analyzed: 03/24/2011 12:38

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C23035 - EPA 3005A

Post Spike (1C23035-PS1) Continued Prepared: 03/23/2011 14:38 Analyzed: 03/24/2011 12:38

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	0.970		0.0100	mg/L	1.00	0.00405	97	80-120			

Classical Chemistry Parameters - Quality Control

Batch 1C17022 - NO PREP

Blank (1C17022-BLK1) Prepared & Analyzed: 03/17/2011 15:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							

LCS (1C17022-BS1) Prepared & Analyzed: 03/17/2011 15:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2.0	mg/L	198		102	85-115			

Duplicate (1C17022-DUP1) Prepared & Analyzed: 03/17/2011 15:05

Source: C100984-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	33000		2000	ug/L		35000			7	25	

Batch 1C17029 - NO PREP

Blank (1C17029-BLK1) Prepared: 03/17/2011 15:46 Analyzed: 03/17/2011 23:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**2000**	**J**	5000	ug/L							
Sulfate as SO4	20	U	5000	ug/L							

LCS (1C17029-BS1) Prepared: 03/17/2011 15:46 Analyzed: 03/18/2011 00:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	52	B	5.0	mg/L	50.0		104	90-110			
Sulfate as SO4	49		5.0	mg/L	50.0		98	90-110			

Matrix Spike (1C17029-MS1) Prepared: 03/17/2011 15:46 Analyzed: 03/18/2011 00:29

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	22	B	5.0	mg/L	20.0	3.8	91	90-110			
Sulfate as SO4	26		5.0	mg/L	20.0	8.3	91	90-110			

Matrix Spike Dup (1C17029-MSD1) Prepared: 03/17/2011 15:46 Analyzed: 03/18/2011 01:22

Source: C102818-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1C17029 - NO PREP

Matrix Spike Dup (1C17029-MSD1) Continued Prepared: 03/17/2011 15:46 Analyzed: 03/18/2011 01:22

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	22	B	5.0	mg/L	20.0	3.8	89	90-110	2	10	QM-05
Sulfate as SO4	26		5.0	mg/L	20.0	8.3	88	90-110	2	10	QM-05

Batch 1C17032 - NO PREP

Blank (1C17032-BLK1) Prepared: 03/17/2011 16:57 Analyzed: 03/17/2011 18:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**13**	**J**	100	ug/L							

LCS (1C17032-BS1) Prepared: 03/17/2011 16:57 Analyzed: 03/17/2011 18:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00		103	90-110			

Matrix Spike (1C17032-MS1) Prepared: 03/17/2011 16:57 Analyzed: 03/17/2011 18:46

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.017	98	90-110			

Matrix Spike Dup (1C17032-MSD1) Prepared: 03/17/2011 16:57 Analyzed: 03/17/2011 18:48

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.017	98	90-110	0.3	10	

Batch 1C18012 - NO PREP

Blank (1C18012-BLK1) Prepared & Analyzed: 03/18/2011 15:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							

LCS (1C18012-BS1) Prepared & Analyzed: 03/18/2011 15:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		96	85-115			

Duplicate (1C18012-DUP1) Prepared & Analyzed: 03/18/2011 15:34

Source: C101094-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L		2000 U				25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1C22004 - NO PREP

Blank (1C22004-BLK1) Prepared: 03/22/2011 05:16 Analyzed: 03/22/2011 09:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	25	U	100	ug/L							

LCS (1C22004-BS1) Prepared: 03/22/2011 05:16 Analyzed: 03/22/2011 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		95	90-110			

Matrix Spike (1C22004-MS1) Prepared: 03/22/2011 05:16 Analyzed: 03/22/2011 09:17

Source: C101947-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.51		0.10	mg/L	0.513	0.054	90	90-110			

Matrix Spike Dup (1C22004-MSD1) Prepared: 03/22/2011 05:16 Analyzed: 03/22/2011 09:20

Source: C101947-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.51		0.10	mg/L	0.513	0.054	90	90-110	0.08	10	

Batch 1C22005 - NO PREP

Blank (1C22005-BLK1) Prepared: 03/22/2011 05:19 Analyzed: 03/22/2011 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	25	U	100	ug/L							

LCS (1C22005-BS1) Prepared: 03/22/2011 05:19 Analyzed: 03/22/2011 10:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		103	90-110			

Matrix Spike (1C22005-MS1) Prepared: 03/22/2011 05:19 Analyzed: 03/22/2011 10:23

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	0.513	0.72	96	90-110			

Matrix Spike Dup (1C22005-MSD1) Prepared: 03/22/2011 05:19 Analyzed: 03/22/2011 10:25

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	0.513	0.72	100	90-110	2	10	

Batch 1C22009 - NO PREP

Blank (1C22009-BLK1) Prepared: 03/22/2011 11:14 Analyzed: 03/22/2011 11:35

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1C22009 - NO PREP

Blank (1C22009-BLK1) Continued Prepared: 03/22/2011 11:14 Analyzed: 03/22/2011 11:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (1C22009-BS1) Prepared: 03/22/2011 11:14 Analyzed: 03/22/2011 11:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.41		0.10	mg/L	0.401		103	80-120			

Matrix Spike (1C22009-MS1) Prepared: 03/22/2011 11:14 Analyzed: 03/22/2011 11:35

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.072		0.10	mg/L	0.401	0.010 U	18	80-120			QM-05

Matrix Spike Dup (1C22009-MSD1) Prepared: 03/22/2011 11:14 Analyzed: 03/22/2011 11:35

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.079		0.10	mg/L	0.401	0.010 U	20	80-120	9	25	QM-05

Batch 1C23022 - Same

Blank (1C23022-BLK1) Prepared: 03/23/2011 12:02 Analyzed: 03/23/2011 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	10000	U	10000	ug/L							

LCS (1C23022-BS1) Prepared: 03/23/2011 12:02 Analyzed: 03/23/2011 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	490		10	mg/L	500		98	90-110			

Matrix Spike (1C23022-MS1) Prepared: 03/23/2011 12:02 Analyzed: 03/23/2011 14:54

Source: C103148-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	530		10	mg/L	500	30	99	90-110			

Matrix Spike Dup (1C23022-MSD1) Prepared: 03/23/2011 12:02 Analyzed: 03/23/2011 14:54

Source: C103148-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	30	101	90-110	2	10	

Batch 1C28001 - NO PREP

Blank (1C28001-BLK1) Prepared: 03/28/2011 01:39 Analyzed: 03/28/2011 02:43

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1C28001 - NO PREP

Blank (1C28001-BLK1) Continued Prepared: 03/28/2011 01:39 Analyzed: 03/28/2011 02:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	12000	U	15000	ug/L							

LCS (1C28001-BS1) Prepared: 03/28/2011 01:39 Analyzed: 03/28/2011 02:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	94		15	mg/L	100		94	80-120			

Matrix Spike (1C28001-MS1) Prepared: 03/28/2011 01:39 Analyzed: 03/28/2011 02:47

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	71		15	mg/L	37.8	35	96	80-120			

Matrix Spike Dup (1C28001-MSD1) Prepared: 03/28/2011 01:39 Analyzed: 03/28/2011 02:48

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	82		15	mg/L	37.8	35	124	80-120	14	25	QM-05

Batch 1C28039 - NO PREP

Blank (1C28039-BLK1) Prepared: 03/28/2011 17:16 Analyzed: 03/28/2011 21:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	12000	U	15000	ug/L							

LCS (1C28039-BS1) Prepared: 03/28/2011 17:16 Analyzed: 03/28/2011 21:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	100000		15000	ug/L	100000		104	80-120			

Matrix Spike (1C28039-MS1) Prepared: 03/28/2011 17:16 Analyzed: 03/28/2011 21:23

Source: C102818-18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	120000		15000	ug/L	37800	84000	104	80-120			

Matrix Spike Dup (1C28039-MSD1) Prepared: 03/28/2011 17:16 Analyzed: 03/28/2011 21:23

Source: C102818-18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	130000		15000	ug/L	37800	84000	114	80-120	3	25	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 1C21007 - NO PREP ANALYTIX

Blank (1C21007-BLK1) Prepared: 03/21/2011 10:14 Analyzed: 03/22/2011 10:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	2000	U	2500	ug/L							
Ethane	1.50	U	2.00	ug/L							
Ethene	1.60	U	2.00	ug/L							
Methane	0.490	U	1.00	ug/L							

LCS (1C21007-BS1) Prepared: 03/21/2011 10:14 Analyzed: 03/22/2011 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	20700		2500	ug/L	26200		79	71-119			
Ethane	160		2.00	ug/L	180		89	75-123			
Ethene	141		2.00	ug/L	167		85	72-131			
Methane	77.9		1.00	ug/L	96.9		80	74-116			

Matrix Spike (1C21007-MS1) Prepared: 03/21/2011 10:14 Analyzed: 03/22/2011 10:53

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	207000	E	2500	ug/L	26200	164000	166	71-119			QM-02
Ethane	182		2.00	ug/L	180	1.50 U	101	75-123			
Ethene	162		2.00	ug/L	167	1.60 U	97	72-131			
Methane	89.8		1.00	ug/L	96.9	1.60	91	74-116			

Matrix Spike Dup (1C21007-MSD1) Prepared: 03/21/2011 10:14 Analyzed: 03/22/2011 10:57

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	210000	E	2500	ug/L	26200	164000	176	71-119	1	10	QM-02
Ethane	187		2.00	ug/L	180	1.50 U	104	75-123	3	14	
Ethene	169		2.00	ug/L	167	1.60 U	101	72-131	4	12	
Methane	91.9		1.00	ug/L	96.9	1.60	93	74-116	2	18	

Volatile Fatty Acids by HPLC - Quality Control

Batch 1C21001 - NO PREP ANALYTIX

Blank (1C21001-BLK1) Prepared: 03/18/2011 13:00 Analyzed: 03/18/2011 14:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83	U	500	ug/L							
Butyric Acid	160	U	500	ug/L							
Hexanoic Acid	230	U	1000	ug/L							
HIBA (2-Hydroxyisobutyric Acid)	160	U	500	ug/L							
iso-Hexanoic Acid	210	U	1000	ug/L							
iso-Pentanoic Acid	260	U	500	ug/L							
Lactic Acid	440	U	500	ug/L							
Pentanoic Acid	270	U	500	ug/L							
Propionic Acid	180	U	500	ug/L							
Pyruvic Acid	140	U	500	ug/L							

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 1C21001 - NO PREP ANALYTIX

Blank (1C21001-BLK1) Continued Prepared: 03/18/2011 13:00 Analyzed: 03/18/2011 14:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Trimethylacetic acid	*61000*			*ug/L*	*49800*		*122*	*80-124*			

Blank (1C21001-BLK2) Prepared: 03/18/2011 13:00 Analyzed: 03/21/2011 10:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83	U	500	ug/L							
Butyric Acid	160	U	500	ug/L							
Hexanoic Acid	230	U	1000	ug/L							
HIBA (2-Hydroxyisobutyric Acid)	160	U	500	ug/L							
iso-Hexanoic Acid	210	U	1000	ug/L							
iso-Pentanoic Acid	260	U	500	ug/L							
Lactic Acid	440	U	500	ug/L							
Pentanoic Acid	270	U	500	ug/L							
Propionic Acid	180	U	500	ug/L							
Pyruvic Acid	140	U	500	ug/L							
Surrogate: Trimethylacetic acid	*59000*			*ug/L*	*49800*		*119*	*80-124*			

LCS (1C21001-BS1) Prepared: 03/18/2011 13:00 Analyzed: 03/18/2011 15:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	21000		500	ug/L	20000		106	73-125			
Butyric Acid	19000		500	ug/L	19800		96	80-120			
Hexanoic Acid	23000		1000	ug/L	20000		114	78-120			
HIBA (2-Hydroxyisobutyric Acid)	20000		500	ug/L	19900		99	80-120			
iso-Hexanoic Acid	23000		1000	ug/L	19800		116	80-120			
iso-Pentanoic Acid	22000		500	ug/L	19800		109	78-120			
Lactic Acid	20000		500	ug/L	20100		98	56-154			
Pentanoic Acid	22000		500	ug/L	19900		111	77-120			
Propionic Acid	21000		500	ug/L	19800		105	80-120			
Pyruvic Acid	20000		500	ug/L	19700		100	37-142			
Surrogate: Trimethylacetic acid	*47000*			*ug/L*	*49800*		*95*	*80-124*			

Matrix Spike (1C21001-MS1) Prepared: 03/18/2011 13:00 Analyzed: 03/18/2011 16:23

Source: B101332-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22000		500	ug/L	20000	83 U	108	73-125			
Butyric Acid	20000		500	ug/L	19800	160 U	98	80-120			
Hexanoic Acid	22000		1000	ug/L	20000	230 U	109	78-120			
HIBA (2-Hydroxyisobutyric Acid)	19000		500	ug/L	19900	160 U	98	80-120			
iso-Hexanoic Acid	23000		1000	ug/L	19800	210 U	114	80-120			
iso-Pentanoic Acid	23000		500	ug/L	19800	260 U	115	78-120			
Lactic Acid	18000		500	ug/L	20100	440 U	92	56-154			
Pentanoic Acid	23000		500	ug/L	19900	270 U	117	77-120			
Propionic Acid	22000		500	ug/L	19800	180 U	108	80-120			
Pyruvic Acid	20000		500	ug/L	19700	140 U	104	37-142			
Surrogate: Trimethylacetic acid	*48000*			*ug/L*	*49800*		*96*	*80-124*			

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 1C21001 - NO PREP ANALYTIX

Matrix Spike Dup (1C21001-MSD1) Prepared: 03/18/2011 13:00 Analyzed: 03/18/2011 17:25

Source: B101332-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22000		500	ug/L	20000	83 U	111	73-125	2	10	
Butyric Acid	20000		500	ug/L	19800	160 U	100	80-120	1	10	
Hexanoic Acid	21000		1000	ug/L	20000	230 U	104	78-120	5	34	
HIBA (2-Hydroxyisobutyric Acid)	21000		500	ug/L	19900	160 U	103	80-120	6	15	
iso-Hexanoic Acid	23000		1000	ug/L	19800	210 U	114	80-120	0.6	15	
iso-Pentanoic Acid	23000		500	ug/L	19800	260 U	117	78-120	2	15	
Lactic Acid	18000		500	ug/L	20100	440 U	87	56-154	5	19	
Pentanoic Acid	22000		500	ug/L	19900	270 U	113	77-120	4	10	
Propionic Acid	21000		500	ug/L	19800	180 U	107	80-120	0.9	10	
Pyruvic Acid	21000		500	ug/L	19700	140 U	106	37-142	2	10	
Surrogate: Trimethylacetic acid	*47000*			*ug/L*	*49800*		*95*	*80-124*			

Batch 1C21002 - NO PREP ANALYTIX

Blank (1C21002-BLK1) Prepared: 03/21/2011 08:19 Analyzed: 03/21/2011 13:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83	U	500	ug/L							
Butyric Acid	160	U	500	ug/L							
Hexanoic Acid	230	U	1000	ug/L							
HIBA (2-Hydroxyisobutyric Acid)	160	U	500	ug/L							
iso-Hexanoic Acid	210	U	1000	ug/L							
iso-Pentanoic Acid	260	U	500	ug/L							
Lactic Acid	440	U	500	ug/L							
Pentanoic Acid	270	U	500	ug/L							
Propionic Acid	180	U	500	ug/L							
Pyruvic Acid	140	U	500	ug/L							
Surrogate: Trimethylacetic acid	*55000*			*ug/L*	*49800*		*111*	*80-124*			

LCS (1C21002-BS1) Prepared: 03/21/2011 08:19 Analyzed: 03/21/2011 14:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	22000		500	ug/L	20000		109	73-125			
Butyric Acid	20000		500	ug/L	19800		103	80-120			
Hexanoic Acid	23000		1000	ug/L	20000		115	78-120			
HIBA (2-Hydroxyisobutyric Acid)	18000		500	ug/L	19900		91	80-120			
iso-Hexanoic Acid	22000		1000	ug/L	19800		113	80-120			
iso-Pentanoic Acid	24000		500	ug/L	19800		119	78-120			
Lactic Acid	23000		500	ug/L	20100		113	56-154			
Pentanoic Acid	24000		500	ug/L	19900		119	77-120			
Propionic Acid	22000		500	ug/L	19800		110	80-120			
Pyruvic Acid	21000		500	ug/L	19700		107	37-142			
Surrogate: Trimethylacetic acid	*47000*			*ug/L*	*49800*		*94*	*80-124*			

Matrix Spike (1C21002-MS1) Prepared: 03/21/2011 08:19 Analyzed: 03/21/2011 15:24

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 1C21002 - NO PREP ANALYTIX

Matrix Spike (1C21002-MS1) Continued Prepared: 03/21/2011 08:19 Analyzed: 03/21/2011 15:24

Source: B101355-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	87000		500	ug/L	20000	68000	93	73-125			
Butyric Acid	23000		500	ug/L	19800	1900	106	80-120			
Hexanoic Acid	23000		1000	ug/L	20000	230 U	113	78-120			
HIBA (2-Hydroxyisobutyric Acid)	21000		500	ug/L	19900	160 U	104	80-120			
iso-Hexanoic Acid	23000		1000	ug/L	19800	210 U	116	80-120			
iso-Pentanoic Acid	23000		500	ug/L	19800	990	112	78-120			
Lactic Acid	19000		500	ug/L	20100	440 U	96	56-154			
Pentanoic Acid	23000		500	ug/L	19900	2200	105	77-120			
Propionic Acid	28000		500	ug/L	19800	6700	107	80-120			
Pyruvic Acid	20000		500	ug/L	19700	140 U	99	37-142			
Surrogate: Trimethylacetic acid	*47000*			*ug/L*	*49800*		*95*	*80-124*			

Matrix Spike Dup (1C21002-MSD1) Prepared: 03/21/2011 08:19 Analyzed: 03/21/2011 16:26

Source: B101355-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	87000		500	ug/L	20000	68000	95	73-125	0.6	10	
Butyric Acid	23000		500	ug/L	19800	1900	109	80-120	3	10	
Hexanoic Acid	23000		1000	ug/L	20000	230 U	114	78-120	0.3	34	
HIBA (2-Hydroxyisobutyric Acid)	21000		500	ug/L	19900	160 U	107	80-120	2	15	
iso-Hexanoic Acid	21000		1000	ug/L	19800	210 U	106	80-120	9	15	
iso-Pentanoic Acid	23000		500	ug/L	19800	990	111	78-120	1	15	
Lactic Acid	19000		500	ug/L	20100	440 U	95	56-154	1	19	
Pentanoic Acid	24000		500	ug/L	19900	2200	108	77-120	2	10	
Propionic Acid	28000		500	ug/L	19800	6700	109	80-120	1	10	
Pyruvic Acid	20000		500	ug/L	19700	140 U	101	37-142	2	10	
Surrogate: Trimethylacetic acid	*48000*			*ug/L*	*49800*		*96*	*80-124*			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 1C22013 - EPA 3510C

Blank (1C22013-BLK1) Prepared: 03/23/2011 16:00 Analyzed: 03/25/2011 01:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.14	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.15	U	0.50	ug/L							
2,4-D	0.15	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.13	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.7*			*ug/L*	*2.00*		*84*	*68-139*			

LCS (1C22013-BS1) Prepared: 03/23/2011 16:00 Analyzed: 03/25/2011 02:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 1C22013 - EPA 3510C

LCS (1C22013-BS1) Continued Prepared: 03/23/2011 16:00 Analyzed: 03/25/2011 02:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00		89	68-154			
2,4-D	2.1		0.50	ug/L	2.00		103	62-144			
Surrogate: 2,4-DCAA	*1.8*			*ug/L*	*2.00*		*91*	*68-139*			

Matrix Spike (1C22013-MS1) Prepared: 03/23/2011 16:00 Analyzed: 03/25/2011 03:05

Source: A101528-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.15 U	97	68-154			
2,4-D	3.3		0.50	ug/L	2.00	0.15 U	163	62-144			QM-07
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*115*	*68-139*			

Matrix Spike Dup (1C22013-MSD1) Prepared: 03/23/2011 16:00 Analyzed: 03/25/2011 03:30

Source: A101528-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00	0.15 U	90	68-154	7	15	
2,4-D	3.0		0.50	ug/L	2.00	0.15 U	149	62-144	9	33	QM-07
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*97*	*68-139*			

Classical Chemistry Parameters - Quality Control

Batch 1C22024 - NO PREP

Blank (1C22024-BLK1) Prepared: 03/22/2011 16:05 Analyzed: 03/22/2011 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	37	U	50	ug/L							

LCS (1C22024-BS1) Prepared: 03/22/2011 16:05 Analyzed: 03/22/2011 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	1400		50	ug/L	1500		95	88-114			

Matrix Spike (1C22024-MS1) Prepared: 03/22/2011 16:05 Analyzed: 03/22/2011 16:28

Source: A101155-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	2200		50	ug/L	1500	770	98	88-114			

Matrix Spike Dup (1C22024-MSD1) Prepared: 03/22/2011 16:05 Analyzed: 03/22/2011 16:28

Source: A101155-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron, Ferrous	2200		50	ug/L	1500	770	98	88-114	0.1	11	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1C24005 - NO PREP

Blank (1C24005-BLK1) Prepared: 03/25/2011 09:00 Analyzed: 03/25/2011 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	270	U	1000	ug/L							

LCS (1C24005-BS1) Prepared: 03/25/2011 09:00 Analyzed: 03/25/2011 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	36000		1000	ug/L	40000		89	85-115			

Matrix Spike (1C24005-MS1) Prepared: 03/25/2011 09:00 Analyzed: 03/25/2011 14:47

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	41000		1000	ug/L	40000	920	99	85-115			

Matrix Spike Dup (1C24005-MSD1) Prepared: 03/25/2011 09:00 Analyzed: 03/25/2011 14:47

Source: C102818-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	41000		1000	ug/L	40000	920	99	85-115	0.1	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

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Page 1 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning - CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C102818

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 2	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Sample Comments
	9209-MW5R	3/16/11	1600	G	GW	20	X			X		X	X	X	X	X	- report results
	9209-MW6	3/16/11	1430	G	GW	21			X	X		X	X	X	X	X	according to SWS limit
	9209-MW6d	3/16/11	1510	G	GW	4				X		X					- report "J" values
	9209-MW7	3/16/11	1735	G	GW	5				X	X	X					- provide edd
	9209-MW8	3/16/11	1700	G	GW	19				X		X	X	X	X	X	
	9209-MW8d				GW	4				X		X					
	9209-MW9	3/17/11	800	G	GW	21			X	X		X	X	X	X	X	
	9209-MW10	3/17/11	945	G	GW	20				X	X	X	X	X	X	X	
	9209-MW10d				GW	5				X	X	X					
	9209-MW11	3/17/11	720	G	GW	22		X		X		X	X	X	X	X	
	9209-MW11d				GW	7		X		X		X					
	9209-MW22				GW	6			X	X		X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By:	Date/Time: 3-17-11 1415	Received By:	Date/Time: 3-17-11 1425
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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Page 2 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C102818

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	9209-MW5R	3/16/11	1600	G	GW	20	X	X	X	X	X		X	X	X		See page 1
	9209-MW6	3/16/11	1430	G	GW	21	X	X	X	X	X		X	X	X		
	9209-MW6d	3/16/11	1510	G	GW	4		X									
	9209-MW7	3/16/11	1735	G	GW	5		X									
	9209-MW8	3/16/11	1700	G	GW	19	X	X	X	X	X		X	X	X		
	9209-MW8d				GW	4		X									
	9209-MW9	3/17/11	800	G	GW	21	X	X		X	X	X	X	X	X		
	9209-MW10	3/17/11	945	G	GW	20	X	X		X	X	X	X	X	X		
	9209-MW10d				GW	5		X									
	9209-MW11	3/17/11	720	G	GW	22	X	X		X	X	X	X	X	X		
	9209-MW11d	~~3/17/11~~ AW	~~720~~ AW	~~G~~ AW	GW	7		X									
	9209-MW22				GW	6		X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 3/17/11 1415	Received By	Date/Time 3-17-11 1425
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C102818

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 2	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Sample Comments
	9209-MW23				GW	5				X	X	X					See page 1
	9209-MW23d				GW	5				X	X	X					
	9209-MW24				GW	5				X	X	X					
	9209-MW28				GW	5	X			X		X					
	9209-MW28d				GW	5				X	X	X					
	9209-MW29d				GW	6			X	X		X					
	9209-MW30				GW	5	X			X		X					
	9209-MW31	3/17/11	1100	G	GW	5	X			X		X					
	9209-MW31d	3/16/11	1010	G	GW	5				X	X	X					
	9209-MW32	3/17/11	1125	G	GW	4				X		X					
	9209-TB1a	3/17/11	1110	G	GW	5	X			X		X					
	9209-TB1ad	3/16/11	1100	G	GW	4				X		X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 3/17/11 1415	Received By	Date/Time 3-17-11 1425
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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Page 4 of 6

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: ()-	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C102818

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	9209-MW23				GW	5		X									-See page 1
	9209-MW23d				GW	5		X									
	9209-MW24				GW	5		X									
	9209-MW28				GW	5		X									
	9209-MW28d				GW	5		X									
	9209-MW29d				GW	6		X									
	9209-MW30				GW	5		X									
	9209-MW31	3/17/11	1100	G	GW	5		X									
	9209-MW31d	3/16/11	1010	G	GW	5		X									
	9209-MW32	3/17/11	1125	G	GW	4		X									
	9209-TB1a	3/17/11	1110	G	GW	5		X									
	9209-TB1ad	3/16/11	1100	G	GW	4		X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time: 3/17/11 1415	Received By	Date/Time: 3-17-11 1425
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info:
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C102818

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 2	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Sample Comments
	9209-MW33	3/16/11	1530	G	GW	5	X			X		X					see page 1
	9209-MW34	3/17/11	1035	G	GW	4				X		X					
	9209-MW34d	3/16/11	840	G	GW	5				X	X	X					
	9209-MW35	3/17/11	1025	G	GW	4				X		X					
	9209-MW36	3/17/11	830	G	GW	21			X	X		X	X	X	X	X	
	9209-MW36d				GW	6			X	X		X					
	9209-DUP				GW	6			X	X		X					
	9209-EQBlank				WA	6			X	X		X					
	9209-TripBlank	—	—	—	WA	2				X							

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 3/17/11 1415	Received By	Date/Time 3/17/11 1415
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C102818

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	Sample Comments
	9209-MW33	3/16/11	1530	G	GW	5		X								See page 1
	9209-MW34	3/17/11	1035	G	GW	4		X								
	9209-MW34d	3/16/11	840	G	GW	5		X								
	9209-MW35	3/17/11	1025	G	GW	4		X								
	9209-MW36	3/17/11	830	G	GW	21	X	X		X	X	X	X	X	X	
	9209-MW36d				GW	6		X								
	9209-DUP				GW	6		X								
	9209-EQBlank				WA	6		X								
	9209-TripBlank	—	—	—	WA	2										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 3/17/11 1415	Received By: [signature]	Date/Time: 3-17-11 1415
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C102818~~

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 2	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Sample Comments
	9209-MW5R				GW	20	X			X		X	X	X	X	X	- report results according
	9209-MW6				GW	21			X	X		X	X	X	X	X	to SWS limits
	9209-MW6d				GW	4				X		X					- provide pdd
	9209-MW7				GW	5				X	X	X					- report "J" values
	9209-MW8				GW	19				X		X	X	X	X	X	
	9209-MW8d	3/18/11	1140	G	GW	4				X		X					C103164
	9209-MW9				GW	21			X	X		X	X	X	X	X	
	9209-MW10				GW	20				X	X	X	X	X	X	X	
	9209-MW10d	3/18/11	1155	G	GW	5				X	X	X					
	9209-MW11				GW	22		X		X		X	X	X	X	X	
	9209-MW11d	3/18/11	750	G	GW	7		X		X		X					
	9209-MW22	3/18/11	810	G	GW	6			X	X		X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	3-18-11 1315	Briana Gregory	3/18/11 13:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-811 2.5°C C-816 2.9°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~G102818~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	9209-MW5R				GW	20	X	X	X	X	X		X	X	X		See page 1
	9209-MW6				GW	21	X	X	X	X	X		X	X	X		
	9209-MW6d				GW	4		X									C103164
	9209-MW7				GW	5		X									
	9209-MW8				GW	19	X	X	X	X	X		X	X	X		
	9209-MW8d	3/18/11	1140	G	GW	4		X									
	9209-MW9				GW	21	X	X		X	X	X	X	X	X		
	9209-MW10	-			GW	20	X	X		X	X	X	X	X	X		
	9209-MW10d	3/18/11	1155	G	GW	5		X									
	9209-MW11				GW	22	X	X		X	X	X	X	X	X		
	9209-MW11d	3/18/11	750	G	GW	7		X									
	9209-MW22	3/18/11	810	G	GW	6		X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
			3-18-11 1315	Briana Gregory	3/18/11 13:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-811 2.5°C C-816 2.9°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C102818~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 2	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Sample Comments
	9209-MW23	3/18/11	1205	G	GW	5				X	X	X					See page 1
	9209-MW23d	3/17/11	1320	G	GW	5				X	X	X					C103164
	9209-MW24	3/18/11	1215	G	GW	5				X	X	X					
	9209-MW28	3/18/11	1100	G	GW	5	X			X		X					
	9209-MW28d	3/18/11	1110	G	GW	5				X	X	X					
	9209-MW29d	3/18/11	1045	G	GW	6			X	X		X					
	9209-MW30	3/18/11	1000	G	GW	5	X			X		X					
	9209-MW31				GW	5	X			X		X					
	9209-MW31d				GW	5				X	X	X					
	9209-MW32				GW	4				X		X					
	9209-TB1a				GW	5	X			X		X					
	9209-TB1ad				GW	4				X		X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	3-18-11 1315	Briana Gregory	3/18/11 13:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-811 2.5°C C-816 2.9°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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www.encolabs.com

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C102818~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	9209-MW23	3/18/11	1205	G	GW	5		X									See page 1
	9209-MW23d	3/17/11	1320	G	GW	5		X									C103164
	9209-MW24	3/18/11	1215	G	GW	5		X									
	9209-MW28	3/18/11	1100	G	GW	5		X									
	9209-MW28d	3/18/11	1110	G	GW	5		X									
	9209-MW29d	3/18/11	1045	G	GW	6		X									
	9209-MW30	3/18/11	1000	G	GW	5		X									
	9209-MW31				GW	5		X									
	9209-MW31d				GW	5		X									
	9209-MW32				GW	4		X									
	9209-TB1a				GW	5		X									
	9209-TB1ad				GW	4		X									
							<-- Total # of Containers										

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 3/18/11 1315	Received By Briana Hugey	Date/Time 3/18/11 13:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-811 2.5°C C-816 2.9°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) **Preservation:** I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature:	Site Location / Time Zone

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C102818~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8081B Appendix 2,8151A Appendix 2,8270D Appendix 2	8081B Appendix 2,8270D Appendix 2	8260B Appendix 2	8270D Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Sample Comments
	9209-MW33				GW	5	X			X		X					See page 1
	9209-MW34				GW	4				X		X					C103164
	9209-MW34d				GW	5				X	X	X					
	9209-MW35				GW	4				X		X					
	9209-MW36				GW	21			X	X		X	X	X	X	X	
	9209-MW36d	3/18/11	915	G	GW	6			X	X		X					
	9209-DUP	3/18/11	700	G	GW	6			X	X		X					
	9209-EQBlank	3/18/11	730	G	WA	6			X	X		X					
	9209-TripBlank				WA	2				X							Already received. BJG 3/18/11

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time: 3-18-11 1315	Received By: Briana Gregory	Date/Time: 3/18/11 13:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-811 2.5°C C-816 2.9°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SQ-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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(919) 467-3090 Fax (919) 467-3515

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Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: North Wake Unlined Landfill
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C102818~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Fe/Ferrous	Hg	Hydrogen,RSK 175 + CO2	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B		Sample Comments
	9209-MW33				GW	5		X									-See page 1
	9209-MW34				GW	4		X									C103164
	9209-MW34d				GW	5		X									
	9209-MW35				GW	4		X									
	9209-MW36				GW	21	X	X		X	X	X	X	X	X		
	9209-MW36d	3/18/11	915	G	GW	6		X									
	9209-DUP	3/18/11	700	G	GW	6		X									
	9209-EQBlank	3/18/11	730	G	WA	6		X									
	9209-TripBlank				WA	2											Already received. BJG 3/18/11

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 3/18/11 1315	Received By: Briana Hugary	Date/Time: 3/18/11 13:15
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-811 2.5°C C-816 2.9°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

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microseeps
From insight comes solutions

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Page: Page 1 of 4
Lab Proj #: P1103203
Report Date: 03/31/11
Client Proj Name: C102818
Client Proj #: C102818

Laboratory Results

Total pages in data package: 5

Lab Sample #	Client Sample ID
P1103203-01	9209-MW5R
P1103203-02	9209-MW6
P1103203-03	9209-MW8

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 4.1.11

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1103203
Report Date: 03/31/11
Client Proj Name: C102818
Client Proj #: C102818

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
9209-MW5R	Vapor	P1103203-01	16 Mar. 11 16:00	18 Mar. 11 10:59

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	2.700	0.600	nM	AM20GAX	3/30/11	gt

N - NELAC certified analysis
PA02-00538

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1103203
Report Date: 03/31/11
Client Proj Name: C102818
Client Proj #: C102818

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
9209-MW6	Vapor	P1103203-02	16 Mar. 11 14:30	18 Mar. 11 10:59

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	2.200	0.600	nM	AM20GAX	3/30/11	gt

N - NELAC certified analysis
PA02-00538

Client Name: Environmental Conservation Labs, Inc.
Contact: Chuck Smith
Address: 102 A Woodwinds Industrial Court
Cary, NC 27511

Lab Proj #: P1103203
Report Date: 03/31/11
Client Proj Name: C102818
Client Proj #: C102818

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
9209-MW8	Vapor	P1103203-03	16 Mar. 11 17:00	18 Mar. 11 10:59

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	2.200	0.600	nM	AM20GAX	3/30/11	gt

N - NELAC certified analysis
PA02-00538

SUBCONTRACT ORDER

ENCO Cary

C102818

P1103203

SENDING LABORATORY:

ENCO Cary
102-A Woodwinds Industrial Court
Cary, NC 27511
Phone: 919.467.3090
Fax: 919.467.3515
Project Manager: Chuck Smith

RECEIVING LABORATORY:

Microseeps, Inc
220 William Pitt Way
Pittsburg, PA 15238
Phone :(412) 826-5245
Fax: (999) 999-9999
Project State of Origin: North Carolina

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW5R	Ground Water	16-Mar-11 16:00	

Analysis	Due	Expires	Analysis Comments
Hydrogen	31-Mar-11 15:00	23-Mar-11 16:00	

Containers Supplied:

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW6	Ground Water	16-Mar-11 14:30	

Analysis	Due	Expires	Analysis Comments
Hydrogen	31-Mar-11 15:00	23-Mar-11 14:30	

Containers Supplied:

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-MW8	Ground Water	16-Mar-11 17:00	

Analysis	Due	Expires	Analysis Comments
Hydrogen	31-Mar-11 15:00	23-Mar-11 17:00	

Containers Supplied:

Released By	Date	Received By	Date
			3/18/11

Released By	Date	Received By	Date

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Wednesday, March 30, 2011

CDM (CD004)

Attn: Aaron Weispfenning

5400 GLENWOOD AVE SUITE 300

RALEIGH, NC 27612-

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: N Wake Unlined Surface Waters
ENCO Workorder: C102814

Dear Aaron Weispfenning,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, March 18, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 23.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-SW2	Lab ID: C102814-01	Sampled: 03/17/11 17:00	Received: 03/18/11 13:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/13/11	03/21/11 16:40	3/23/2011 12:13
EPA 6010C	09/13/11	03/24/11 10:00	3/25/2011 13:37
EPA 6020A	09/13/11	03/22/11 14:59	3/25/2011 13:17
EPA 8260B	03/31/11	03/24/11 08:21	3/24/2011 16:58

Client ID: 9209-SW3	Lab ID: C102814-02	Sampled: 03/17/11 14:00	Received: 03/18/11 13:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/13/11	03/21/11 16:40	3/23/2011 12:15
EPA 6010C	09/13/11	03/24/11 10:00	3/25/2011 13:39
EPA 6020A	09/13/11	03/22/11 14:59	3/25/2011 13:20
EPA 8260B	03/31/11	03/24/11 08:21	3/24/2011 17:29

Client ID: 9209-SW7	Lab ID: C102814-03	Sampled: 03/18/11 09:35	Received: 03/18/11 13:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/14/11	03/21/11 16:40	3/23/2011 12:18
EPA 6010C	09/14/11	03/24/11 10:00	3/25/2011 13:41
EPA 6020A	09/14/11	03/22/11 14:59	3/25/2011 13:24
EPA 8260B	04/01/11	03/24/11 08:21	3/24/2011 17:59

Client ID: 9209-SW8	Lab ID: C102814-04	Sampled: 03/18/11 09:25	Received: 03/18/11 13:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	09/14/11	03/21/11 16:40	3/23/2011 12:20
EPA 6010C	09/14/11	03/24/11 10:00	3/25/2011 13:43
EPA 6020A	09/14/11	03/22/11 14:59	3/25/2011 13:28
EPA 8260B	04/01/11	03/24/11 08:21	3/24/2011 18:29

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 9209-SW2 **Lab ID: C102814-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	41.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	1.72	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.27	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.194	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	

Client ID: 9209-SW3 **Lab ID: C102814-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	31.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Lead - Total	1.97	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.231	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	1.86	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 9209-SW7 **Lab ID: C102814-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.52	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Barium - Total	30.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Selenium - Total	0.976	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.188	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	

Client ID: 9209-SW8 **Lab ID: C102814-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	28.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Selenium - Total	0.947	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Total	0.128	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	

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ANALYTICAL RESULTS

Description: 9209-SW2 **Lab Sample ID:** C102814-01 **Received:** 03/18/11 13:05

Matrix: Surface Water **Sampled:** 03/17/11 17:00 **Work Order:** C102814

Project: N Wake Unlined Surface Waters **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 16:58	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 16:58	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 16:58	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 16:58	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 16:58	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 16:58	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 16:58	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 16:58	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 16:58	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 16:58	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 16:58	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 16:58	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 16:58	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 16:58	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 16:58	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 16:58	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 16:58	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 16:58	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 16:58	jkg	

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Description: 9209-SW2 | **Lab Sample ID:** C102814-01 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/17/11 17:00 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 16:58	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 16:58	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 16:58	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 16:58*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 16:58*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 16:58*	*jkg*	

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Description: 9209-SW2 | **Lab Sample ID:** C102814-01 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/17/11 17:00 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 13:17	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 12:13	JDH	
Barium [7440-39-3] ^	**41.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 12:13	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 12:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 12:13	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 12:13	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 12:13	JDH	
Copper [7440-50-8] ^	**1.72**	J	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 12:13	JDH	
Lead [7439-92-1] ^	**2.27**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:13	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 12:13	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 13:17	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:13	JDH	
Thallium [7440-28-0] ^	**0.194**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 13:17	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 12:13	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/25/11 13:37	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-SW3 | **Lab Sample ID:** C102814-02 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/17/11 14:00 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 17:29	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 17:29	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 17:29	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 17:29	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 17:29	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 17:29	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 17:29	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 17:29	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 17:29	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 17:29	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 17:29	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 17:29	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 17:29	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 17:29	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 17:29	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 17:29	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 17:29	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 17:29	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 17:29	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 17:29	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 17:29	jkg	

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Description: 9209-SW3
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C102814-02
Sampled: 03/17/11 14:00
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:05
Work Order: C102814

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 17:29	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 17:29*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 17:29*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 17:29*	*jkg*	

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Description: 9209-SW3 | **Lab Sample ID:** C102814-02 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/17/11 14:00 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 13:20	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 12:15	JDH	
Barium [7440-39-3] ^	**31.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 12:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 12:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 12:15	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 12:15	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 12:15	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 12:15	JDH	
Lead [7439-92-1] ^	**1.97**	J	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 12:15	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 13:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:15	JDH	
Thallium [7440-28-0] ^	**0.231**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 13:20	VLO	
Vanadium [7440-62-2] ^	**1.86**	J	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 12:15	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/25/11 13:39	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-SW7 | **Lab Sample ID:** C102814-03 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/18/11 09:35 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 17:59	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.52**	J	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 17:59	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 17:59	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 17:59	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 17:59	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 17:59	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 17:59	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 17:59	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 17:59	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 17:59	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 17:59	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 17:59	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 17:59	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 17:59	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 17:59	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 17:59	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 17:59	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 17:59	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 17:59	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 17:59	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 17:59	jkg	

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Description: 9209-SW7
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C102814-03
Sampled: 03/18/11 09:35
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:05
Work Order: C102814

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 17:59	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 17:59*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 17:59*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 17:59*	*jkg*	

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Description: 9209-SW7 | **Lab Sample ID:** C102814-03 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/18/11 09:35 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 13:24	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 12:18	JDH	
Barium [7440-39-3] ^	**30.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 12:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 12:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 12:18	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 12:18	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 12:18	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 12:18	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:18	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 12:18	JDH	
Selenium [7782-49-2] ^	**0.976**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 13:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:18	JDH	
Thallium [7440-28-0] ^	**0.188**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 13:24	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 12:18	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/25/11 13:41	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 9209-SW8 | **Lab Sample ID:** C102814-04 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/18/11 09:25 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	03/24/11 18:29	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	03/24/11 18:29	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	03/24/11 18:29	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	03/24/11 18:29	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	03/24/11 18:29	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	03/24/11 18:29	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	03/24/11 18:29	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	03/24/11 18:29	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	03/24/11 18:29	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	03/24/11 18:29	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	03/24/11 18:29	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	03/24/11 18:29	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	03/24/11 18:29	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	03/24/11 18:29	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	03/24/11 18:29	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	03/24/11 18:29	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	03/24/11 18:29	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	03/24/11 18:29	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	03/24/11 18:29	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	03/24/11 18:29	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	03/24/11 18:29	jkg	

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Description: 9209-SW8
Matrix: Surface Water
Project: N Wake Unlined Surface Waters

Lab Sample ID: C102814-04
Sampled: 03/18/11 09:25
Sampled By: Aaron Weispfenning

Received: 03/18/11 13:05
Work Order: C102814

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	03/24/11 18:29	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*1C24002*	*EPA 8260B*	*03/24/11 18:29*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1C24002*	*EPA 8260B*	*03/24/11 18:29*	*jkg*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*69-110*	*1C24002*	*EPA 8260B*	*03/24/11 18:29*	*jkg*	

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Description: 9209-SW8 | **Lab Sample ID:** C102814-04 | **Received:** 03/18/11 13:05

Matrix: Surface Water | **Sampled:** 03/18/11 09:25 | **Work Order:** C102814

Project: N Wake Unlined Surface Waters | **Sampled By:** Aaron Weispfenning

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	03/25/11 13:28	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	03/23/11 12:20	JDH	
Barium [7440-39-3] ^	**28.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	03/23/11 12:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	03/23/11 12:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	03/23/11 12:20	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	03/23/11 12:20	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	03/23/11 12:20	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	03/23/11 12:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:20	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	03/23/11 12:20	JDH	
Selenium [7782-49-2] ^	**0.947**	J	ug/L	1	0.830	1.00	10	EPA 6020A	03/25/11 13:28	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	03/23/11 12:20	JDH	
Thallium [7440-28-0] ^	**0.128**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	03/25/11 13:28	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	03/23/11 12:20	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	03/25/11 13:43	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24002 - EPA 5030B_MS

Blank (1C24002-BLK1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C24002 - EPA 5030B_MS

Blank (1C24002-BLK1) Continued Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

LCS (1C24002-BS1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 10:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	75-133			
Benzene	21		1.0	ug/L	20.0		105	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	21		1.0	ug/L	20.0		105	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*69-110*			

Matrix Spike (1C24002-MS1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 11:28

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	108	75-133			
Benzene	21		1.0	ug/L	20.0	0.68 U	103	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.74 U	90	83-117			
Toluene	17		1.0	ug/L	20.0	0.85 U	86	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	104	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*68-117*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*69-110*			

Matrix Spike Dup (1C24002-MSD1) Prepared: 03/24/2011 08:21 Analyzed: 03/24/2011 11:58

Source: C102037-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.60 U	121	75-133	11	20	
Benzene	23		1.0	ug/L	20.0	0.68 U	114	81-134	11	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	96	83-117	6	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	94	71-118	8	17	
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	112	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*68-117*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*69-110*			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C21026 - EPA 3005A

Blank (1C21026-BLK1) Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:13

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C21026 - EPA 3005A

Blank (1C21026-BLK1) Continued Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							

LCS (1C21026-BS1) Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	486		10.0	ug/L	500		97	80-120			
Barium	500		10.0	ug/L	500		100	80-120			
Beryllium	249		1.00	ug/L	250		100	80-120			
Cadmium	254		1.00	ug/L	250		102	80-120			
Chromium	503		10.0	ug/L	500		101	80-120			
Cobalt	494		10.0	ug/L	500		99	80-120			
Copper	254		10.0	ug/L	250		102	80-120			
Lead	493		10.0	ug/L	500		99	80-120			
Nickel	496		10.0	ug/L	500		99	80-120			
Silver	252		10.0	ug/L	250		101	80-120			
Vanadium	254		10.0	ug/L	250		102	80-120			

Matrix Spike (1C21026-MS1) Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:22

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	593		10.0	ug/L	500	2.80 U	119	75-125			
Barium	981		10.0	ug/L	500	414	113	75-125			
Beryllium	304		1.00	ug/L	250	0.100 U	122	75-125			
Cadmium	295		1.00	ug/L	250	0.360 U	118	75-125			
Chromium	583		10.0	ug/L	500	3.29	116	75-125			
Cobalt	601		10.0	ug/L	500	2.87	120	75-125			
Copper	298		10.0	ug/L	250	2.99	118	75-125			
Lead	589		10.0	ug/L	500	3.40	117	75-125			
Nickel	574		10.0	ug/L	500	1.80 U	115	75-125			
Silver	286		10.0	ug/L	250	1.90 U	115	75-125			
Vanadium	300		10.0	ug/L	250	1.40 U	120	75-125			

Matrix Spike Dup (1C21026-MSD1) Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:24

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C21026 - EPA 3005A

Matrix Spike Dup (1C21026-MSD1) Continued Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:24

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	584		10.0	ug/L	500	2.80 U	117	75-125	2	20	
Barium	972		10.0	ug/L	500	414	112	75-125	0.9	20	
Beryllium	296		1.00	ug/L	250	0.100 U	119	75-125	2	20	
Cadmium	287		1.00	ug/L	250	0.360 U	115	75-125	3	20	
Chromium	569		10.0	ug/L	500	3.29	113	75-125	2	20	
Cobalt	588		10.0	ug/L	500	2.87	117	75-125	2	20	
Copper	289		10.0	ug/L	250	2.99	114	75-125	3	20	
Lead	574		10.0	ug/L	500	3.40	114	75-125	2	20	
Nickel	558		10.0	ug/L	500	1.80 U	112	75-125	3	20	
Silver	288		10.0	ug/L	250	1.90 U	115	75-125	0.7	20	
Vanadium	293		10.0	ug/L	250	1.40 U	117	75-125	2	20	

Post Spike (1C21026-PS1) Prepared: 03/21/2011 16:40 Analyzed: 03/23/2011 11:26

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.15		0.0100	mg/L	1.00	-0.00172	115	80-120			
Barium	1.53		0.0100	mg/L	1.00	0.414	111	80-120			
Beryllium	0.584		0.00100	mg/L	0.500	9.81E-5	117	80-120			
Cadmium	0.574		0.00100	mg/L	0.500	-0.000250	115	80-120			
Chromium	1.14		0.0100	mg/L	1.00	0.00329	114	80-120			
Cobalt	1.11		0.0100	mg/L	1.00	0.00287	111	80-120			
Copper	0.580		0.0100	mg/L	0.500	0.00299	115	80-120			
Lead	1.13		0.0100	mg/L	1.00	0.00340	112	80-120			
Nickel	1.10		0.0100	mg/L	1.00	0.00108	110	80-120			
Silver	0.575		0.0100	mg/L	0.500	0.00178	115	80-120			
Vanadium	0.588		0.0100	mg/L	0.500	0.00119	117	80-120			

Batch 1C22028 - EPA 3005A

Blank (1C22028-BLK1) Prepared: 03/22/2011 14:59 Analyzed: 03/25/2011 12:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (1C22028-BS1) Prepared: 03/22/2011 14:59 Analyzed: 03/25/2011 12:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.4		2.00	ug/L	25.0		106	80-120			
Selenium	26.9		1.00	ug/L	25.0		107	80-120			
Thallium	25.9		1.00	ug/L	25.0		104	80-120			

Matrix Spike (1C22028-MS1) Prepared: 03/22/2011 14:59 Analyzed: 03/25/2011 12:43

Source: C102362-02

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C22028 - EPA 3005A

Matrix Spike (1C22028-MS1) Continued Prepared: 03/22/2011 14:59 Analyzed: 03/25/2011 12:43

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.5		2.00	ug/L	25.0	0.220 U	102	80-120			
Selenium	24.7		1.00	ug/L	25.0	1.31	94	80-120			
Thallium	25.2		1.00	ug/L	25.0	0.110 U	101	80-120			

Matrix Spike Dup (1C22028-MSD1) Prepared: 03/22/2011 14:59 Analyzed: 03/25/2011 12:54

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.5		2.00	ug/L	25.0	0.220 U	106	80-120	4	20	
Selenium	27.2		1.00	ug/L	25.0	1.31	104	80-120	10	20	
Thallium	26.0		1.00	ug/L	25.0	0.110 U	104	80-120	3	20	

Post Spike (1C22028-PS1) Prepared: 03/22/2011 14:59 Analyzed: 03/25/2011 12:58

Source: C102362-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	28.1		2.00	ug/L	25.0	0.0720	112	80-120			
Selenium	27.4		1.00	ug/L	25.0	1.31	104	80-120			
Thallium	27.6		1.00	ug/L	25.0	-0.0710	111	80-120			

Batch 1C23036 - EPA 3005A

Blank (1C23036-BLK1) Prepared: 03/24/2011 10:00 Analyzed: 03/25/2011 12:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	3.80	U	10.0	ug/L							

LCS (1C23036-BS1) Prepared: 03/24/2011 10:00 Analyzed: 03/25/2011 12:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	510		10.0	ug/L	500		102	80-120			

Matrix Spike (1C23036-MS1) Prepared: 03/24/2011 10:00 Analyzed: 03/25/2011 12:43

Source: C103155-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	569		10.0	ug/L	500	67.3	100	75-125			

Matrix Spike Dup (1C23036-MSD1) Prepared: 03/24/2011 10:00 Analyzed: 03/25/2011 12:45

Source: C103155-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	570		10.0	ug/L	500	67.3	101	75-125	0.3	20	

Post Spike (1C23036-PS1) Prepared: 03/24/2011 10:00 Analyzed: 03/25/2011 12:47

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1C23036 - EPA 3005A

Post Spike (1C23036-PS1) Continued Prepared: 03/24/2011 10:00 Analyzed: 03/25/2011 12:47

Source: C102361-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	1.55		0.0100	mg/L	1.00	0.611	94	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Cary, NC 27511
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Page 1 of 1

Client Name: CDM (CD004)	Project Number: [none]
Address: 5400 GLENWOOD AVE SUITE 300	Project Name/Desc: N Wake Unlined Surface Waters
City/ST/Zip: RALEIGH, NC 27612-	PO # / Billing Info
Tel: 325-3500 Fax: () -	Reporting Contact: Aaron Weispfenning
Sampler(s) Name, Affiliation (Print): Aaron Weispfenning CDM	Billing Contact: Anarosa Jones
Sampler(s) Signature: [signature]	Site Location / Time Zone

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C102814

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Sample Comments
	9209-SW2	3/17/11	1700	G	SW	4	X	X	-report results accounting to SWS limit
	9209-SW3	3/17/11	1400	G	SW	4	X	X	
	9209-SW7	3/18/11	935	G	SW	4	X	X	-provide edd
	9209-SW8	3/18/11	925	G	SW	4	X	X	-report "J" values

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	3/18/11 1305	Briana Gregory	3/18/11 13:05
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-811 2.5°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

MW-11
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 4

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	◉	0
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	◉	0
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	◉	0
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-5R
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 9

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	○	◉	0
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-6
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score	Score: 23
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5	
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14	
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20	
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20	Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	◉	○	2
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

MW-8
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 16

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	◉	○	3
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-9
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 20

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	◉	○	3
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	◉	○	2
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	◉	○	2
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	○	◉	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-10
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 17

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	◉	○	3
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	◉	○	2
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset

MW-36
March 2011

Natural Attenuation Screening Protocol	Interpretation	Score
	Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
	Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
	Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
	Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 12

Scroll to End of Table

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	◉	○	1
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	◉	○	1
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	◉	0
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	◉	0
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	◉	0
DCA		Daughter product of TCA under reducing conditions	◉	○	2
Carbon Tetrachloride		Material released	○	◉	0
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	◉	0
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	◉	0

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE

Reset