PREPARED FOR:

GRANVILLE COUNTY
SOLID WASTE DEPARTMENT
P.O. BOX 906
OXFORD, NORTH CAROLINA 27565

BUTNER LANDFILL
PERMIT NO. 39-02

FIRST SEMIANNUAL WATER QUALITY MONITORING REPORT OF 2014

JUNE 2014

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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):

Joyce Engineering, Inc.

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

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Butner Landfill	State Road 1004 Butner, NC	39-02	.1600	February 24, 2014 April 15, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

G. VanNess Burbach, Ph.D., PG — Technical Consultant — (336) 323-0092

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — Date 6/16/14

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

2211 W. Meadowview Rd., Ste. 101 Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009

First Semiannual Water Quality Monitoring Report of 2014
Butner Landfill
Granville County, North Carolina

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Site Information 1
1.2 Site Geology 1
1.3 Groundwater Monitoring History 1
1.4 Regulatory Status 2
2.0 FACILITY MONITORING PROGRAM 2
2.1 Groundwater Monitoring Program 2
2.2 Surface Water Monitoring Program 3
3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2014 3
3.1 Field Work 3
3.2 Laboratory Analysis and JOYCE Quality Control 4
4.0 ANALYTICAL RESULTS AND STATISTICAL ANALYSES 4
4.1 Analytical Results for Groundwater and Comparisons to Standards 4
4.1.1 Inorganic Analyses 4
4.1.2 Organic Analyses 5
4.2 Statistical Analyses 5
4.2.1 Statistical Methods 5
4.2.2 Results of Statistical Analyses 6
4.3 Analytical Results for Surface Water and Comparisons to Standards 6
5.0 HYDROGEOLOGICAL CONDITIONS 6
6.0 CONCLUSION 7
7.0 REFERENCES 8
8.0 ACRONYMS 9

Tables
Table 1 Historical Constituents in Groundwater
Table 2 Historical Constituents in Surface Water
Table 3 Summary of Statistical Analyses
Table 4 Historical Groundwater Elevation Data
Table 5 Estimated Hydraulic Gradients and Groundwater Flow Velocities

Figure
Figure 1 Site Location Map

Drawing
Drawing 1 Potentiometric Surface Map

Appendices
Appendix A Laboratory Analytical Reports and Field Data Logs
Appendix B Statistical Analyses Worksheets

1.0 INTRODUCTION

1.1 Site Information

The Butner Landfill is a closed municipal solid waste (MSW) landfill, located off State Route 1004 near the town of Butner, in Granville County, North Carolina (Figure No. 1). The Butner facility started receiving waste prior to May 1973. Permit Number 39-02, was issued from the State of North Carolina on March 3, 1982. The facility stopped receiving waste in August 1998. A small recycling center and transfer station are operated by the County of Granville at the entrance of the closed landfill.

In accordance with North Carolina Solid Waste Management Regulations (NCSWMR), the Butner Landfill entered an Assessment Monitoring Program in December of 1997 as a result of detections of volatile organic compounds and pesticide above 15A-NCAC-2L (NC-2L) Groundwater Standards. An Assessment of Corrective Measures (ACM) was initiated in 2003, and then suspended by North Carolina Department of Environment and Natural Resources (DENR) since there had been no more NC-2L exceedances. The Nature and Extent Study (NES) and ACM recommenced in 2007 when apparent volatile organic compound (VOC) exceedances of the NC-2L Standards began to appear; however, they were again suspended when it was determined that the apparent exceedances were not statistically significant increases (SSIs) above background. An ACM was reinitiated after an exceedance of benzene in MW-2R in December 2012, and was submitted to DENR in May 2013. Approval of the ACM was granted in a letter from DENR dated June 27, 2013. A Corrective Action Plan (CAP) was submitted to DENR on May 23, 2014.

1.2 Site Geology

The Butner Landfill lies within the Piedmont physiographic province. The topography of the area consists of rolling hills that support farmland and forest. The majority of the landfill area is underlain by Carolina Slate Belt felsic volcanic rocks, which have been metamorphosed into greenish grey foliated tuffs. The southeastern portion of the site is underlain by Triassic Sanford Formation (conglomerate, sandstone, and mudstone), which unconformably overlies the Carolina Slate Belt felsic volcanic rocks. There is no exposure of the Sanford Formation at the site; however, float material consisting of grey, coarse-grained sandstone with quartz pebbles was observed. Diabase dikes have also been observed in the vicinity of the site. Geologic descriptions were taken from GAI Consultants-NC, Inc. December 1993 *Groundwater and Surface Water Monitoring System* report.

1.3 Groundwater Monitoring History

- **April 1994 –** Current Monitoring Well Network installed.
- **Dec. 1997 -** The facility entered Assessment Monitoring.
- **June 2003** – NC-2L exceedances for heptachlor in MW-2R and MW-3R initiated an ACM.
- **Dec. 2004 & June 2005** – There were no NC-2L exceedances, so DENR agreed to put the ACM on hold pending future monitoring results. At first, DENR said the facility

needed deed restrictions on adjoining property owned by the County, but this was apparently based on false information (the County did not own the property) so the requirement for deed restrictions was dropped.

- **Dec. 2006** – Benzene in MW-2R and 1,4-dichlorobenzene in MW-2R and MW-3R detected above NC-2L standards.
- **June 14, 2007 -** Granville County and JOYCE met with DENR to discuss a strategy for performing a Nature and Extent Study (NES) and an ACM.
- **Nov. 2007** – Nature & Extent well NES-1 was installed downgradient of MW-2R & MW-3R.
- **Dec. 2007** – NES & MNA sampling event on selected wells.
- **Dec. 2008** – Organic results above the NC-2L standards were determined to not represent statistically significant exceedances, so corrective action and ACM were suspended with the concurrence of the DENR and in accordance with the NCSWMR.
- **Dec**. **2012 –** Benzene detections above the NC-2L in MW-2R initiated the ACM.
- **May 17, 2013** – ACM addressing the benzene detections above the NC 2L in MW-2R submitted to DENR.
- **June 27, 2013** – ACM approved by DENR.
- **September 3, 2013** – Public meeting and selection of remedy.
- **May 23, 2014** – CAP submitted to DENR.

1.4 Regulatory Status

Groundwater and surface water monitoring at the Butner Landfill is completed in accordance with North Carolina Solid Waste Management Regulations (NCSWMR) §.1634. The site is currently in an Assessment Monitoring Program. Groundwater samples are collected semiannually and analyzed for all constituents listed in NCSWMR Appendix I plus previously detected Appendix II constituents during the fall sampling event, and all NCSWMR Appendix I and Appendix II constituents during the spring sampling event. Surface water samples are collected and sampled for Appendix I constituents during each sampling event.

2.0 FACILITY MONITORING PROGRAM

2.1 Groundwater Monitoring Program

Six active groundwater monitoring wells comprise the monitoring network at the Butner Landfill. The current compliance network consists of the following monitoring wells: MW-1R (facility background well), MW-2R, MW-3R, MW-4, MW-5, and MW-6. An additional well, NES-1, was installed as part of a Nature and Extent Study on November 14, 2007.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
MW-1R	4/21/94	Background	Assessment	45.1	Saprolite
MW-2R	4/12/94	Compliance	Assessment	19.0	Saprolite
MW-3R	4/14/94	Compliance	Assessment	37.2	Bedrock
MW-4	4/18/94	Compliance	Assessment	31.5	Bedrock
MW-5	4/18/94	Compliance	Assessment	23.4	Saprolite
MW-6	4/19/94	Compliance	Assessment	31.7	Saprolite/Bedrock
NES-1	11/14/07	Nature & Extent	---	33.0	Saprolite/Bedrock

2.2 Surface Water Monitoring Program

Two surface water samples have been collected semiannually since September 1994 at the Butner Landfill. The points SW-1 and SW-2 are located respectively upstream and downstream of the facility, along an unnamed tributary of Picture Creek.

3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2014

3.1 Field Work

On February 24, 2014 Joyce Engineering, (JOYCE) personnel visited the Butner Landfill to purge and sample monitoring wells MW-1R, MW-2R, MW-3R, MW-4, MW-5, MW-6, and NES-1.

All monitoring wells were purged and sampled using new, disposable bailers. Measurements of temperature, pH, turbidity and specific conductivity were recorded in a field log. Prior to sampling, laboratory-supplied containers were prepared with the following information:

- Monitoring well number (completed by laboratory/field personnel),
- Date and time of sample collection (completed by laboratory/field personnel),
- Initials of sampling personnel (completed by laboratory/field personnel),
- Project name and number (completed by the laboratory/field personnel),
- Chemical preservative (completed by the laboratory/field personnel); and
- Requested chemical analysis (completed by the laboratory/field personnel).

Groundwater samples from each monitoring well were collected directly from the bailers into the provided laboratory containers, either immediately after purging or within 24 hours of the final purge volume. Immediately after collection, the samples were placed in a laboratory provided cooler and chilled on ice. Field Logs are provided in Appendix A.

Surface water points SW-1 and SW-2 were sampled using a decontaminated graduated dipper. Laboratory-prepared sampling containers were filled, placed in a cooler, and chilled on ice. JOYCE personnel measured temperature, pH, specific conductivity, and turbidity of the surface water in the field at the time of sampling. Field Logs are included in Appendix A.

3.2 Laboratory Analysis and JOYCE Quality Control

Pace Analytical Services Inc. of Huntersville, North Carolina, analyzed the February 2014, groundwater and surface water samples under chain-of-custody control. The groundwater samples were analyzed for NC Appendix II constituents. The surface water samples were analyzed for NC Appendix I constituents. The samples were received by the laboratory on February 27, 2014, in good condition, properly preserved, at proper temperatures, and within analysis hold times.

In addition to samples collected for compliance monitoring at the Butner Landfill, JOYCE personnel collected a Field Blank as part of the February 2014 sampling event. The Field Blank was analyzed for the NC Appendix II constituents. Also, a Trip Blank that was prepared by the laboratory accompanied the volatile sampling containers to and from the laboratory. The Trip Blank was analyzed for the Appendix II volatile organic compounds. Upon receipt of the laboratory data package, JOYCE personnel reviewed the following data:

- General typographical errors;
- Correct analyses performed and within method specified hold times;
- Biased data results based on Matrix Spike, Matrix Spike Duplicate, and Laboratory Control Samples;
- Blank qualified data (B-flags);
- Detections above the NC-2L Groundwater Standards or DENR Groundwater Water Protection Standards (GWPS); and
- Detections that are above historical levels.

Due to a suspect detection of beta-BHC in MW-2R verification sampling was completed on April 15, 2014. The complete laboratory analytical reports are included in *Appendix A*.

4.0 ANALYTICAL RESULTS AND STATISTICAL ANALYSES

4.1 Analytical Results for Groundwater and Comparisons to Standards

4.1.1 Inorganic Analyses

The following inorganic constituents were detected at quantified concentrations above the solid waste section report limits (SWSL's) during the February 2014 sampling event.

Constituent	NC-2L /GWPS*	Background	Downgradient					Blanks
		MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	
Antimony	1	**8.8**	ND	ND	ND	ND	ND	ND
Barium	700	ND	93.8 J	44.8 J	ND	139	ND	ND
Cobalt	1*	ND	**18.4**	ND	ND	9.6 J	ND	ND
Copper	1,000	ND	ND	12.2	ND	5.1 J	ND	ND
Nickel	100	ND	83.1	16.7 J	10.4 J	ND	ND	ND

All concentrations are reported in micrograms per liter (µg/L).
NC-2L= Groundwater Standard from 15NCAC 2l.0202
GWPS = Groundwater Protection Standard – for constituents with no NC-2L Standard (indicted by *).
J = Estimated concentration below the SWSL. ND = Not detected above laboratory detection limits.
Highlighted data are above the NC-2L Standard or GWPS.

Antimony was detected above the GWPS in MW-1R. MW-1R serves as the site's upgradient background well; therefore, the detection of antimony is not considered to be a Groundwater Protection Standard (GPS) exceedance because it is not above background in accordance with rule .1634.g.5.

Cobalt was detected above the GWPS in MW-2R; however, not above the calculated background concentration (see section 4.2). Since the cobalt detection was below the site specific calculated background value, there was no exceendence of the GPS as defined by rule .1634.g.. Complete historical analytical results for inorganic constituents are presented in Table 1. The laboratory analytical reports and the chains of custody are included in Appendix A.

4.1.2 Organic Analyses

The following organic constituents were detected at quantified concentrations above the solid waste section report limits (SWSL's) during the February 2014 sampling event.

Constituent	NC-2L	Background	Downgradient					Blanks
		MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	
Benzene	1	ND	**1.4**	ND	ND	ND	ND	ND
Chlorobenzene	50	ND	16.3	2.5 J	1.4 J	ND	ND	ND
1,4- Dichlorobenzene	6	ND	2.2	1.8	ND	ND	ND	ND
Methylene Chloride	5	1.0	ND	ND	ND	ND	ND	ND
Beta-BHC	0.019	ND	**0.052** (ND)	ND	ND	ND	ND	ND

All concentrations are reported in micrograms per liter (µg/L).
J = Estimated concentration below the Solid Waste Section Limit (SWSL).
ND = Not detected above laboratory detection limits.
Highlighted data are above the NC-2L Standard.
Results from April 15, 2014 verification sampling event are in ( )

Due to a suspect detection of beta-BHC in MW-2R, verification sampling was completed on April 15, 2014. The verification sampling results did not confirm the initial detection of beta-BHC in MW-2R.

Benzene in MW-2R was detected above its GPS. The benzene exceedance in MW-2R was addressed in the ACM submitted on May 17, 2013, AND cap SUBMITTED ON May 23, 2014. No other organic constituents were detected above their GPS during the February 2014 sampling event. Historical analytical results for organic constituents are presented in Table 1. The laboratory analytical reports, the laboratory quality assurance/quality control information, and the chains of custody, are included in the Appendix A

4.2 Statistical Analyses

4.2.1 Statistical Methods

Monitoring well MW-1R is designated as the up-gradient background well for the facility. Data from MW-1R between September 1994 and February 2014 have been used to determine statistical background concentrations for constituents detected at the facility.

The background data were evaluated using the Shapiro-Wilk Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-Parametric Prediction Limits, and Poisson Prediction Limits, as appropriate. Background data, tests for normality, outliers, Aitchison's adjustment, tolerance interval, or prediction limits are used, as appropriate based on the background data. The statistical test by which downgradient data are compared to facility background data is based upon the nature of the data and the number of data values that are less than the laboratory limit of detection. All statistical tests are evaluated at the 0.05 level of significance, 95% confidence level, and are conducted as one-tailed tests. The data set was evaluated to determine the appropriate procedure for calculation of the background value for each parameter.

4.2.2 Results of Statistical Analyses

A summary of the February 2014 statistical background calculations are provided in the table below. Statistical analysis worksheets can be found in Appendix B.

Constituent	Data Distribution	Statistical Method used to Establish Background	Background Concentration	GWPS	GPS	GPS Exceedances
Cobalt	74% ND	Nonparametric Prediction Interval	130	1	130	None

GWPS = Solid Waste Section Groundwater Standard for constituents with no listed NC 2L.
GPS = Groundwater Protection Standard as defined in 15A NCAC .1634(g).
%ND = percentage of background data that is truncated (non-detect).
All concentrations are in µg/L (micrograms per liter).

The calculated background concentration for Cobalt is proposed as the Groundwater Protection Standard specific to the site per rule .1634(g.5) of the NCSWMR.

4.3 Analytical Results for Surface Water and Comparisons to Standards

The surface water samples from the Butner Landfill were collected from an unnamed tributary to Picture Creek, which has its confluence with Picture Creek approximately ½ mile south of the site. Picture Creek at this location is classified WS-IV/NSW. Surface water analytical results from the site were compared to the 15A-NCAC-2B (NC2B) surface water standards for water supply-classified waters, human health, or fresh-water aquatic life, whichever is lowest for a given constituent.

No inorganic or organic constituents were detected above the SWSL in the surface water samples during the February 2014 sampling event. The historical analytical results for surface water are included in Table 2. The laboratory analytical reports, the laboratory quality assurance/quality control information, and the chain of custody, are included in the Appendix A.

5.0 HYDROGEOLOGICAL CONDITIONS

Groundwater in the saprolite feeds the fractures in the bedrock and discharges into creeks northeast of the landfill. Groundwater flow direction at deeper levels within the fractured

bedrock is controlled by fracture orientation. A groundwater surface contour map, developed with static water level data obtained February 24, 2014, is presented as *Drawing 1*. The static water elevations depict groundwater flow to the southeast.

Depth to groundwater was measured in the compliance monitoring wells at the site prior to purging. The groundwater elevations were calculated relative to the surveyed measuring point (top of casing) for each monitoring well. The historical groundwater elevations are summarized in Table 4. The groundwater elevation contours shown on Drawing 1 are based on data from the February 2014 sampling event. Horizontal groundwater gradients along representative flow paths were estimated from the February 2014 groundwater contours shown on Drawing 1 and are summarized in Table 5. Horizontal gradients across the site ranged from 0.0496 to 0.0555 ft/ft, with an average of approximately 0.0526 ft/ft. This is consistent with previous estimates.

Linear groundwater flow velocities were computed using the modified Darcy equation: $\boldsymbol{V = Ki/n_e}$, where **V** = average linear velocity (feet/day), $\boldsymbol{K}$ = hydraulic conductivity (feet/day), $\boldsymbol{i}$ = horizontal hydraulic gradient, and $\boldsymbol{n_e}$ = effective porosity. The average of hydraulic conductivities ($\boldsymbol{K}$ = 2.18×10^{-05} cm/sec = 6.18×10^{-02} feet/day) from slug-tests conducted in 1994 (GAI, 1994) was used in these calculation.. The average effective porosity ($\boldsymbol{n_e}$ = 18%) based on 90% of reported total porosity for soils (GAI, 1994), and 10% for fractured bedrock was also used. Although the regolith and bedrock are hydraulically connected, the effective porosity generally decreases with depth into the underlying fractured bedrock. The modified Darcy equation makes the simplifying assumption of a homogeneous and isotropic aquifer. The calculated linear groundwater velocities range from approximately 6.2 to 7.0 feet/year, and the average estimated linear groundwater flow velocity under the facility was calculated at approximately 6.6 feet/year (see Table 5). Groundwater flow direction beneath the landfill is predominantly to the south and southeast.

Because of our conservative estimate of effective porosity, actual groundwater velocities may be significantly less than those calculated. Also, the linear velocity equation and resulting rates make the simplified assumptions of a homogeneous and isotropic aquifer. This equation can over estimate velocity when applied to heterogeneous and/or anisotropic conditions such as are believed to exist at this site.

6.0 CONCLUSION

Antimony was detected above the GWPS in MW-1R; however MW-1R serves as the site's upgradient background well; therefore, the detection of antimony is not considered to be a Groundwater Protection Standard (GPS) exceedance. The only other inorganic constituent detected above the SWS NC-2L or GWPS at the Butner Landfill during the February 2014 sampling event was cobalt in MW-2R. The County of Granville requests that the background value for cobalt at the Butner facility be considered the GPS for cobalt at this site; in which case there was no exceedances of the GPS for inorganic constituents from the February 2014 sampling event.

Due to a suspect detection of beta-BHC in MW-2R verification sampling was completed on April 15, 2014. The verification sampling results did not confirm the initial detection of beta-BHC in MW-2R.

Benzene was detected above the NC-2L in MW-2R during the February 2014 sampling event. In response to the historical benzene exceedances in MW-2R, Granville County submitted an ACM on May 17, 2013. Approval of the ACM was granted in a letter from NC DENR dated June 27, 2013. A CAP was submitted on May 23, 2014.

There were no exceedances of surface water standards during the February 2014 sampling event.

The groundwater flow regime is consistent with previous events and the groundwater monitoring network remains adequate to monitor the site. The next semiannual sampling event is scheduled for August 2014.

7.0 REFERENCES

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8.0 ACRONYMS

ACM	Assessment of Corrective Measures (Report)
AOC	Area of Concern
C&D	Construction and Demolition Waste
CAP	Corrective Action Plan (Report)
CAER	Corrective Action Evaluation Report (Report)
COC	Constituent of Concern
DENR	North Carolina Department of Environment and Natural Resources
DL	Detection Limit (for laboratory data)
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
GPS	Site specific Groundwater Protection Standards
GWPS	Groundwater Protection Standards (established by DENR-SWS)
JOYCE	Joyce Engineering
LFG	Landfill Gas
MNA	Monitored Natural Attenuation
MSW	Municipal Solid Waste
MW	Monitoring Well
NC2B	North Carolina Surface Water Standards found in 15A NCAC 2B
NC-2L	North Carolina Groundwater Standards found in 15A NCAC 2L
NCAC	North Carolina Administrative Code
NCSWMR	North Carolina Solid Waste Management Regulations (15A NCAC 13B.1600)
ND	Not Detected (for laboratory data)
NES	Nature and Extent Study (Report)
O&M	Operations and Maintenance
QL	Quantitation Limit (for laboratory data)
QRA	Quantitative Risk Assessment (Report)
RL	Reporting Limit (for laboratory data)

SWQS	Surface Water Quality Standards
SWS	Solid Waste Section (of DENR)
SWSL	North Carolina Solid Waste Section Reporting Limits
VOC	Volatile Organic Compound
WQMP	Water Quality Monitoring Plan (Report)

TABLES

Table 1	Historical Constituents in Groundwater
Table 2	Historical Constituents in Surface Water
Table 3	Summary of Statistical Analyses
Table 4	Historical Groundwater Elevation Data
Table 5	Estimated Hydraulic Gradients and Groundwater Flow Velocities

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
INORGANICS											
Antimony	8-Sep-94	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	20-May-98	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	30	ND	80.0	38.0	32.0	33.0	31.0	NI	NS
	26-Oct-00	NR	30	30.0	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	30	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	30	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	30	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	30	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	30	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	30	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	30	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	6	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	6	ND	ND	ND	ND	ND	ND	NI	ND
GWPS = 1.4 ug/L (10/23/07)	19-Dec-07	NR	6	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	6	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	2.6	6.0	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	2.6	6.0	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	2.6	6.0	ND	ND	ND	ND	ND	ND	NS	ND
NC 2B = NE (03/24/10)	24-Jun-10	2.6	6.0	ND	ND	ND	2.9 J	ND	ND	NS	ND
GWPS = 1 ug/L (8/1/10)	13-Dec-10	2.6	6.0	ND	ND	3.0 J	ND	2.8 J	ND	NS	ND
	20-Jun-11	5.0	6.0	ND	ND	ND	ND	6.0	ND	NS	ND
	5-Dec-11	5.0	6.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	5.0	6.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	5.0	6.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	5.0	6.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	5.0	6.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	5.0	6.0	8.8	ND	ND	ND	ND	ND	ND	ND
Arsenic	8-Sep-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	10	6.0 J	15.0	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	10	ND	5.0 J	ND	ND	ND	ND	NI	NS
	20-May-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	2.0 J	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 50 ug/L (10/23/07)	19-Dec-07	NR	10	ND	4.1 J	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	10	ND	4.9 J	ND	ND	ND	ND	NS	ND
	17-Dec-08	2.7	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	2.7	10.0	ND	13.5	10.9	5.6 J	ND	4.0 J	ND	ND
	16-Dec-09	2.7	10.0	ND	10.6	6.4 J	5.0 J	ND	3.6 J	NS	ND
NC 2L = 10 ug/L (02/05/10)	24-Jun-10	2.7	10.0	ND	11.8	8.1 J	8.2 J	3.3 J	3.1 J	NS	ND
Resample >	12-Aug-10	2.7	10.0	NS	NS	7.2 J	NS	NS	NS	NS	ND
Resample >	31-Aug-10	2.7	10.0	NS	15.4	NS	NS	NS	NS	NS	ND
	13-Dec-10	2.7	10.0	ND	4.9 J	2.7 J	5.4 J	ND	ND	NS	ND
	20-Jun-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	5.0	10.0	ND	5.4 J	ND	ND	ND	ND	ND	ND
	12-Dec-12	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	5.0	10.0	ND	ND	5.6 J	ND	ND	ND	NS	ND
	24-Feb-14	5.0	10.0	ND	6.4 J	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Barium	8-Sep-94	NR	500	ND	270	ND	ND	830	860	NI	NS
	1-Dec-94	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	500	ND	ND	ND	ND	510	ND	NI	NS
	2-Mar-95	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	500	ND	82.0	30.0	ND	15.0	ND	NI	NS
	17-Jun-97	NR	500	200	320	37.0	17.0	210	31.0	NI	NS
	1-Dec-97	NR	500	61.0	180	43.0	46.0	220	33.0	NI	NS
	20-May-98	NR	500	30.0	150	45.0	13.0	180	22.0	NI	NS
	19-Nov-98	NR	500	48.0	120	42.0	ND	380	12.0	NI	NS
	21-Jul-99	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	500	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	500	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	100	5.2 J	120	64.9	1.5 J	64.1	1.8 J	NI	0.20 J
	12-Jul-07	NR	100	2.5 J	129	65.7 J	1.1 J	77.0 J	1.3 J	NI	ND
NC 2L = 2,000 ug/L (10/23/07)	19-Dec-07	NR	100	2.8 B	99.2	50.0 B	1.4 B	49.6 B	1.7 B	87.8	11.7
	8-Jul-08	NR	100	5.8 J	102	58.4 J	1.1 B	57.9 J	1.2 B	NS	0.29 J
	17-Dec-08	0.20	100	2.7 B	92.9 J	53.1 B	1.2 B	55.5 J	1.1 B	NS	10.7 J
	9-Jul-09	0.20	100	4.6 B	121	63.4 B	0.37 B	81.4 B	0.94 B	72.4 B	17.6 J
	16-Dec-09	0.20	100	2.9 B	108	62.8 B	0.61 B	56.8 B	0.87 B	NS	17.1 J
NC 2L = 700 ug/L (02/05/10)	24-Jun-10	0.20	100	2.5 B	115 B	61.1 B	1.6 B	93.5 B	1.4 B	NS	27.3 J
	13-Dec-10	0.20	100	4.3 B	122	67.9 J	1.3 B	90.6 J	1.5 B	NS	12.1 J
	20-Jun-11	5.0	100	ND	108	70.7 J	ND	84.7 J	ND	NS	ND
	5-Dec-11	5.0	100	ND	118	73.0 J	ND	90.6 J	ND	NS	ND
	11-Jun-12	5.0	100	ND	138	65.2 J	ND	76.4 J	ND	61.3 J	ND
	12-Dec-12	5.0	100	ND	113	64.7 J	ND	73.6 J	ND	NS	ND
	1-May-13	5.0	100	ND	118	69.1 J	ND	84.2 J	ND	81.2 J	ND
	5-Aug-13	5.0	100	ND	111	65.1 J	ND	95.6 J	ND	NS	ND
	24-Feb-14	5.0	100	ND	93.8 J	44.8 J	ND	139	ND	ND	ND
Beryllium	8-Sep-94	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	2	ND	ND	ND	ND	4.0	ND	NI	NS
	9-Feb-95	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	2	ND	ND	ND	ND	2.0	ND	NI	NS
	15-Nov-95	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	2	ND	ND	ND	ND	6.0	ND	NI	NS
	22-Nov-96	NR	2	ND	ND	ND	ND	3.0	ND	NI	NS
	17-Jun-97	NR	2	2.0	3.0	ND	ND	1.0	ND	NI	NS
	1-Dec-97	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	20-May-98	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	2	ND	ND	ND	ND	2.0	ND	NI	NS
	21-Jul-99	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	2	ND	12.0	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	2	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
GWPS = 4 ug/L (10/23/07)	19-Dec-07	NR	1	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	1	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	0.10	1.0	ND	ND	ND	ND	0.14 J	ND	NS	ND
	9-Jul-09	0.10	1.0	ND	0.18 J	0.22 J	0.17 J	ND	ND	0.23 J	ND
	16-Dec-09	0.10	1.0	ND	0.15 J	0.17 J	0.15 J	0.25 J	ND	NS	ND
NC 2B = 6.5 ug/L (02/05/10)	24-Jun-10	0.10	1.0	ND	ND	0.27 J	0.16 J	ND	ND	NS	ND
	13-Dec-10	0.10	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Cadmium	8-Sep-94	NR	1	ND	ND	ND	ND	ND	4.0	NI	NS
	1-Dec-94	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	1	ND	3.0	1.0	ND	ND	ND	NI	NS
	1-Dec-97	NR	1	ND	2.0	ND	ND	ND	ND	NI	NS
	20-May-98	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	1	ND	3.0	3.0	ND	2.0	ND	NI	NS
	10-May-00	NR	1	5.0	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	1	ND	2.0	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	1	ND	11.0	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	1	ND	2.0	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	1	2.0	2.0	ND	ND	2.0	ND	NI	NS
	27-Jun-03	NR	1	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	1	ND	1.0	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	1	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 1.75 ug/L (10/23/07)	19-Dec-07	NR	1	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	1	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	0.50	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	0.50	1.0	ND	1.4	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.50	1.0	ND	ND	ND	ND	ND	ND	NS	ND
NC 2L = 2 ug/L (02/05/10)	24-Jun-10	0.50	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.50	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	1.0	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	8-Sep-94	NR	10	8.0	44.0	ND	6.0	48.0	80.0	NI	NS
	1-Dec-94	NR	10	14.0	ND	ND	ND	18.0	ND	NI	NS
	9-Feb-95	NR	10	14.0	ND	ND	10.0	ND	ND	NI	NS
	2-Mar-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	10	13.0	13.0	ND	ND	ND	ND	NI	NS
	28-May-96	NR	10	33.0	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	10	3.0	ND	ND	ND	ND	3.0	NI	NS
	17-Jun-97	NR	10	57.0	43.0	ND	3.0	2.0	6.0	NI	NS
	1-Dec-97	NR	10	29.0	ND	ND	ND	ND	ND	NI	NS
	20-May-98	NR	10	10.0	3.0	ND	ND	12.0	ND	NI	NS
	19-Nov-98	NR	10	17.0	3.0	ND	ND	5.0	ND	NI	NS
	21-Jul-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	12.0	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 50 ug/L (10/23/07)	19-Dec-07	NR	10	ND	2.0 B	ND	ND	ND	ND	1.1 B	1.4 J
	8-Jul-08	NR	10	ND	0.54 J	0.58 J	ND	ND	ND	NS	ND
	17-Dec-08	0.40	10.0	0.73 J	1.8 J	0.96 J	ND	0.96 J	0.70 J	NS	ND
	9-Jul-09	0.40	10.0	1.2 J	2.4 J	1.1 J	1.6 J	0.68 J	0.53 J	4.8 J	ND
	16-Dec-09	0.40	10.0	1.3 J	ND	ND	ND	0.95 J	ND	NS	ND
NC 2L = 10 ug/L (02/05/10)	24-Jun-10	0.40	10.0	1.1 B	3.5 B	2.8 B	2.4 B	1.2 B	1.4 B	NS	0.71 J
	13-Dec-10	0.40	10.0	2.5 J	1.3 J	1.8 J	0.69 J	0.57 J	1.2 J	NS	ND
	20-Jun-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	5.0	10.0	ND	8.6 J	ND	ND	ND	ND	ND	ND
	12-Dec-12	5.0	10.0	ND	5.2 J	ND	ND	ND	ND	NS	ND
	1-May-13	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Cobalt	8-Sep-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	10	11.0	ND	13.0	16.0	22.0	ND	NI	NS
	9-Feb-95	NR	10	20.0	14.0	ND	48.0	39.0	ND	NI	NS
	2-Mar-95	NR	10	16.0	21.0	ND	29.0	121.0	ND	NI	NS
	15-Nov-95	NR	10	20.0	21.0	ND	ND	27.0	ND	NI	NS
	28-May-96	NR	10	30.0	16.0	ND	ND	122	ND	NI	NS
	22-Nov-96	NR	10	6.0	13.0	ND	4.7	93.0	ND	NI	NS
	17-Jun-97	NR	10	130	38.0	ND	6.0	45.0	3.0	NI	NS
	1-Dec-97	NR	10	32.0	21.0	ND	12.0	36.0	4.0	NI	NS
	20-May-98	NR	10	15.0	16.0	2.0	9.0	100	3.0	NI	NS
	19-Nov-98	NR	10	21.0	16.0	2.0	7.0	180	3.0	NI	NS
	21-Jul-99	NR	10	ND	16.0	ND	ND	100	ND	NI	NS
	16-Nov-99	NR	10	ND	15.0	ND	ND	38.0	ND	NI	NS
	10-May-00	NR	10	ND	17.0	ND	ND	61.0	ND	NI	NS
	26-Oct-00	NR	10	ND	15.0	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	27.0	ND	ND	74.0	ND	NI	NS
	27-Oct-01	NR	10	ND	12.0	ND	ND	47.0	ND	NI	NS
	13-Jun-02	NR	10	ND	14.0	ND	ND	251	ND	NI	NS
	19-Nov-02	NR	10	ND	10.0	ND	ND	57.0	ND	NI	NS
	27-Jun-03	NR	10	ND	15.0	ND	ND	75.0	ND	NI	NS
	30-Dec-03	NR	10	ND	17.0	ND	ND	52.0	ND	NI	ND
	30-Jun-04	NR	10	ND	16.0	ND	ND	31.0	ND	NI	ND
	29-Dec-04	NR	10	ND	11.0	ND	ND	46.0	ND	NI	ND
	29-Jun-05	NR	10	ND	11.0	ND	ND	43.0	ND	NI	ND
	29-Dec-05	NR	10	ND	12.0	ND	ND	30.0	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	72.5	ND	NI	ND
	29-Dec-06	NR	10	ND	11.4	ND	ND	37.5	ND	NI	ND
	12-Jul-07	NR	10	ND	11.8	ND	2.7	58.4	ND	NI	ND
GWPS = 70 ug/L (10/23/07)	19-Dec-07	NR	10	2.5 B	ND	ND	2.0 B	103	2.6 B	8.0 B	1.8 J
	8-Jul-08	NR	10	10.3 B	12.1 B	2.0 B	9.0 B	130	4.8 B	NS	6.2 J
	17-Dec-08	0.60	10.0	2.1 B	11.8 B	2.3 B	3.6 B	43.7	1.6 B	NS	2.5 J
	9-Jul-09	0.60	10.0	ND	6.2 J	ND	ND	100	ND	2.2 J	ND
	16-Dec-09	0.60	10.0	ND	4.7 J	ND	ND	6.6 J	ND	NS	ND
	24-Jun-10	0.60	10.0	ND	16.3	ND	ND	25.0	ND	NS	ND
GWPS = 1 ug/L (10/23/07)	13-Dec-10	0.60	10.0	2.5 B	15.5	ND	ND	{129}	{ND}	NS	1.6 {1.0 J} J
	20-Jun-11	5.0	10.0	ND	14.2	ND	ND	81.8	ND	NS	ND
	5-Dec-11	5.0	10.0	ND	12.7	ND	ND	146	ND	NS	ND
Resample >	25-Jan-12	5.0	10.0	NS	NS	NS	NS	47.5	NS	NS	ND
	11-Jun-12	5.0	10.0	ND	14.2	ND	ND	101	ND	ND	ND
	12-Dec-12	5.0	10.0	ND	11.3	ND	ND	113	ND	NS	ND
	1-May-13	5.0	10.0	ND	24.3	ND	ND	34.0	ND	ND	ND
	5-Aug-13	5.0	10.0	ND	24.7	ND	ND	50.9	ND	NS	ND
	24-Feb-14	5.0	10.0	ND	18.4	ND	ND	9.6 J	ND	ND	ND
Copper	8-Sep-94	NR	200	ND	ND	ND	ND	ND	660	NI	NS
	1-Dec-94	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	200	ND	ND	32.0	13.0	100	ND	NI	NS
	17-Jun-97	NR	200	34.0	350	13.0	37.0	28.0	77.0	NI	NS
	1-Dec-97	NR	200	19.0	72.0	14.0	88.0	15.0	34.0	NI	NS
	20-May-98	NR	200	12.0	48.0	380	41.0	53.0	28.0	NI	NS
	19-Nov-98	NR	200	10.0	ND	410	28.0	53.0	14.0	NI	NS
	21-Jul-99	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	200	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	200	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	200	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	200	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	200	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	200	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	200	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	ND	ND	11.3	5.50 J	10.4	1.90 B	NI	0.60 J
	12-Jul-07	NR	10	ND	ND	13.4	7.90	2.6 J	ND	NI	ND
NC 2L = 1,000 ug/L (10/23/07)	19-Dec-07	NR	10	2.0 B	ND	8.6 B	3.8 B	7.0 B	0.73 B	5.8 B	9.8
	8-Jul-08	NR	10	0.64 J	ND	12.1	3.7 J	8.5 J	ND	NS	ND
	17-Dec-08	0.30	10.0	0.80 J	13.6	10.2	3.9 J	11.9	0.37 J	NS	ND
	9-Jul-09	0.30	10.0	ND	ND	6.3 J	ND	5.7 J	ND	8.8 J	ND
	16-Dec-09	0.30	10.0	ND	ND	9.2 J	1.6 J	5.7 J	ND	NS	ND
	24-Jun-10	0.30	10.0	ND	ND	10	1.2 J	5.1 J	ND	NS	ND
	13-Dec-10	0.30	10.0	1.1 B	ND	13.6	5.8 J	5.6 J	0.59 B	NS	0.49 J
	20-Jun-11	5.0	10.0	ND	ND	15.3	8.1 J	8.7 J	ND	NS	ND
	5-Dec-11	5.0	10.0	ND	ND	16.9	10.0 J	7.6 J	ND	NS	ND
	11-Jun-12	5.0	10.0	ND	10.7	12.2	6.3 J	7.4 J	ND	ND	ND
	12-Dec-12	5.0	10.0	ND	ND	11.6	8.5 J	10.4	ND	NS	ND
	1-May-13	5.0	10.0	ND	ND	13.6	5.8 J	9.6 J	ND	ND	ND
	5-Aug-13	5.0	10.0	ND	ND	14.3	ND	10.2	ND	NS	ND
	24-Feb-14	5.0	10.0	ND	ND	12.2	ND	5.1 J	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Lead	8-Sep-94	NR	10	ND	13.0	ND	ND	30.0	36.0	NI	NS
	1-Dec-94	NR	10	11.0	ND	ND	ND	36.0	ND	NI	NS
	9-Feb-95	NR	10	ND	ND	ND	10.0	37.0	ND	NI	NS
	2-Mar-95	NR	10	ND	ND	ND	ND	44.0	ND	NI	NS
	15-Nov-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	10	ND	ND	ND	ND	42.0	ND	NI	NS
	22-Nov-96	NR	10	ND	ND	ND	ND	13.0	ND	NI	NS
	17-Jun-97	NR	10	20.0	29.0	ND	ND	13.0	ND	NI	NS
	1-Dec-97	NR	10	8.0	14.0	ND	5.0	14.0	ND	NI	NS
	20-May-98	NR	10	ND	6.0	ND	6.0	21.0	ND	NI	NS
	19-Nov-98	NR	10	5.0	ND	ND	ND	58.0	ND	NI	NS
	21-Jul-99	NR	10	ND	12.0	14.0	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	11.0	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	12.0	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	ND	ND	ND	ND	ND	2.1 J	NI	ND
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 15 ug/L (10/23/07)	19-Dec-07	NR	10	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	10	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	4.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	4.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	4.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	4.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	4.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
Mercury*	1-Dec-97	NR	0.5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	0.5	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	0.5	ND	0.59	0.65	0.65	0.76	ND	NI	NS
	10-May-00	NR	0.5	NS	ND	ND	ND	ND	NS	NI	NS
	26-Oct-00	NR	0.5	NS	ND	ND	ND	ND	NS	NI	NS
	18-Apr-01	NR	0.5	NS	ND	ND	ND	ND	NS	NI	NS
	13-Jun-02	NR	0.5	NS	ND	ND	ND	ND	NS	NI	NS
	27-Jun-03	NR	0.5	NS	ND	ND	ND	ND	NS	NI	NS
	30-Dec-03	NR	0.5	NS	NS	NS	NS	NS	NS	NI	NS
	30-Jun-04	NR	0.5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	NR	NS	NS	NS	NS	NS	NS	NI	NS
	29-Jun-05	NR	0.5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	NR	NS	NS	NS	NS	NS	NS	NI	NS
	28-Jun-06	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	NR	NS	NS	NS	NS	NS	NS	NI	NS
	12-Jul-07	NR	0.2	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 1.05 ug/L (10/23/07)	19-Dec-07	NR	NR	NS	NS	NS	NS	NS	NS	ND	NS
	8-Jul-08	NR	0.2	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	9-Jul-09	0.070	0.2	ND	ND	ND	ND	ND	ND	NS	ND
	16-Dec-09	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
NC 2L = 1 ug/L (02/05/10)	24-Jun-10	0.070	0.20	ND	ND	ND	ND	ND	0.098 J	NS	ND
	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-11	0.10	0.20	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.10	0.20	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.10	0.20	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.10	0.20	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Nickel	8-Sep-94	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	50	ND	72	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	50	ND	100	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	50	ND	61.0	ND	ND	ND	ND	NI	NS
	28-May-96	NR	50	ND	85.0	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	50	ND	72.0	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	50	75	98.0	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	50	ND	89.0	ND	ND	ND	ND	NI	NS
	20-May-98	NR	50	ND	91.0	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	50	ND	83.0	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	50	ND	109	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	50	ND	122	ND	ND	ND	ND	NI	NS
	10-May-00	NR	50	ND	104	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	50	ND	93.0	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	50	ND	107	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	50	ND	92.0	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	50	ND	98.0	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	50	ND	74.0	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	50	ND	85.0	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	50	ND	100	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	50	ND	120 (81.0)	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	50	ND	100	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	50	ND	150 (92.0)	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	50	ND	96.0	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	50	ND	88.7	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	50	ND	94.7	30.1	14.2	8.9 J	ND	NI	ND
	12-Jul-07	NR	50	ND	99.0	30.6 J	13.9 J	13.7 J	ND	NI	ND
NC 2L = 100 ug/L (10/23/07)	19-Dec-07	NR	50	ND	83.4	23.7	11.0	18.3	ND	11.4	ND
	8-Jul-08	NR	50	ND	76.0	28.1 J	11.5 J	27.0 J	ND	NS	ND
	17-Dec-08	1.7	50.0	ND	75.5	27.8 J	12.2 J	11.0 B	ND	NS	2.4 J
	9-Jul-09	1.7	50.0	2.2 J	93.5	29.4 J	11.7 J	23.2 J	ND	13.1 J	ND
	16-Dec-09	1.7	50.0	ND	81.2	28.2 J	11.8 B	2.6 B	ND	NS	3.0 J
	24-Jun-10	1.7	50.0	ND	76.3	19.7 J	9.0 J	7.0 J	4.5 J	NS	ND
	13-Dec-10	1.7	50.0	ND	83.0	23.5 J	6.8 B	20.7 J	ND	NS	2.7 J
	20-Jun-11	5.0	50.0	ND	78.8	30.1 J	11.2 J	15.3 J	ND	NS	ND
	5-Dec-11	5.0	50.0	ND	89.1	32.8 J	11.7 J	24.3 J	ND	NS	ND
	11-Jun-12	5.0	50.0	ND	91.8	28.9 J	10.0 J	17.3 J	ND	ND	ND
	12-Dec-12	5.0	50.0	ND	91.8	29.2 J	9.3 J	21.1 J	ND	NS	ND
	1-May-13	5.0	50.0	ND	89.6	31.9 J	10.4 J	5.7 J	ND	ND	ND
	5-Aug-13	5.0	50.0	ND	87.9	28.1 J	9.0 J	8.4 J	ND	NS	ND
	24-Feb-14	5.0	50.0	ND	83.1	16.7 J	10.4 J	ND	ND	ND	ND
Selenium	8-Sep-94	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	20-May-98	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	20	ND	ND	ND	ND	36.0	ND	NI	NS
	16-Nov-99	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	20	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	20	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	20	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	20	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	20	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	20	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	20	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 50 ug/L (10/23/07)	19-Dec-07	NR	10	ND	11.5	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	10	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	3.8	10	4.8 B	5.1 B	4.8 B	ND	ND	ND	NS	4.9 J
	9-Jul-09	3.8	10	ND	ND	4.2 J	ND	ND	ND	ND	ND
	16-Dec-09	3.8	10	ND	ND	ND	5.1 J	ND	ND	NS	ND
NC 2L = 20 ug/L (02/05/10)	24-Jun-10	3.8	10	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	3.8	10	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	10.0	10	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	10.0	10	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	10.0	10	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	10.0	10	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	10.0	10	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	10.0	10	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	10.0	10	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Silver	8-Sep-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	10	ND	8.0	ND	ND	ND	3	NI	NS
	20-May-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	15.0	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 17.5 ug/L (10/23/07)	19-Dec-07	NR	10	ND	0.57 J	0.60 J	0.55 J	ND	0.33 J	ND	ND
	8-Jul-08	NR	10	ND	2.7 J	2.3 J	1.1 J	0.22 J	0.69 J	NS	0.12 J
	17-Dec-08	0.10	10.0	0.13 J	1.8 J	1.4 J	0.85 J	0.12 J	0.51 J	NS	ND
	9-Jul-09	0.10	10.0	ND	0.84 J	0.63 J	0.45 J	ND	0.11 J	ND	ND
	16-Dec-09	0.10	10.0	0.12 J	2.0 J	1.6 J	1.0 J	0.12 J	0.52 J	NS	ND
NC 2L = 20 ug/L (02/05/10)	24-Jun-10	0.10	10.0	ND	0.38 J	0.33 J	0.35 J	ND	ND	NS	ND
	13-Dec-10	0.10	10.0	0.15 B	1.3 J	0.99 J	0.45 B	{ND}	{ND}	NS	0.21 {0.19 J} J
	20-Jun-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	8-Sep-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	10	ND	3.0	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	20-May-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	10 J (ND)	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	22.0 (30.0)	13.0 (24.0)	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	23.0	20.0	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	25.7	12.6	ND	ND	ND	NI	ND
	29-Dec-06	NR	6	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	5.5	ND	ND	ND	ND	ND	ND	NI	ND
GWPS = 0.28 ug/L (10/23/07)	19-Dec-07	NR	5.5	ND	4.0 J	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	5.5	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	3.0	5.5	ND	3.2 J	3.2 J	ND	ND	ND	NS	ND
	9-Jul-09	3.0	5.5	ND	ND	ND	4.1 J	ND	ND	ND	ND
	16-Dec-09	3.0	5.5	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	3.0	5.5	ND	ND	5.2 J	3.1 J	ND	ND	NS	ND
GWPS = 0.2 ug/L (10/1/10)	13-Dec-10	3.0	5.5	ND	ND	7.7	ND	ND	ND	NS	ND
	20-Jun-11	5.4	5.5	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	5.4	5.5	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	5.4	5.5	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	5.4	5.5	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	5.4	5.5	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	5.4	5.5	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	5.4	5.5	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Tin*	1-Dec-97	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	100	NS	ND	ND	ND	ND	NS	NI	NS
	18-Apr-01	NR	100	NS	ND	ND	ND	ND	NS	NI	NS
	27-Oct-01	NR	100	NS	NS	NS	NS	NS	NS	NI	NS
	13-Jun-02	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	100	NS	NS	NS	NS	NS	NS	NI	NS
	27-Jun-03	NR	100	ND	149	127	ND	ND	ND	NI	NS
	30-Dec-03	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	100	ND	41.1	14.4	3.2 J	ND	ND	NI	ND
	12-Jul-07	NR	100	ND	35.2 J	13.9 J	5.2 J	ND	ND	NI	ND
NC 2L = NE ug/L (10/23/07)	19-Dec-07	NR	100	ND	33.6	7.4	ND	ND	ND	ND	ND
	8-Jul-08	NR	100	4.4 J	28.6 J	15.1 J	5.4 J	3.0 J	3.6 J	NS	ND
	17-Dec-08	1.8	100	ND	22.5 J	9.2 J	ND	ND	ND	NS	ND
	9-Jul-09	1.8	100	ND	21.4 J	8.6 J	ND	ND	ND	NS	ND
	16-Dec-09	1.8	100	ND	26.3 J	10.7 J	ND	ND	ND	NS	ND
GWPS = 2100 ug/L (02/05/10)	24-Jun-10	1.8	100	ND	23.4 J	10.7 J	3.2 J	2.2 J	1.9 J	NS	ND
	13-Dec-10	1.8	100	ND	30.3 J	12.1 J	5.8 J	ND	ND	NS	ND
	20-Jun-11	5.0	100	ND	26.8 J	13.8 J	ND	ND	ND	NS	ND
	5-Dec-11	5.0	100	ND	25.8 J	13.9 J	ND	ND	ND	NS	ND
	11-Jun-12	5.0	100	ND	22.2 J	9.0 J	ND	ND	ND	ND	ND
	12-Dec-12	5.0	100	ND	30.0 J	13.2 J	ND	ND	ND	NS	ND
	1-May-13	5.0	100	ND	25.8 J	12.2 J	ND	ND	ND	NS	ND
	5-Aug-13	5.0	100	ND	22.7 J	12.5 J	ND	ND	ND	NS	ND
	24-Feb-14	5.0	100	ND	26.7 J	11.7 J	9.8 J	ND	ND	ND	ND
Vanadium	8-Sep-94	NR	40	ND	ND	ND	ND	ND	130	NI	NS
	1-Dec-94	NR	40	63.0	ND	ND	45.0	ND	ND	NI	NS
	9-Feb-95	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	40	41.0	ND	ND	45.0	ND	ND	NI	NS
	15-Nov-95	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	40	83.0	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	40	7.0	17	ND	21.0	ND	ND	NI	NS
	17-Jun-97	NR	40	450	560	ND	19.0	ND	ND	NI	NS
	1-Dec-97	NR	40	62.0	88.0	ND	41.0	ND	10.0	NI	NS
	20-May-98	NR	40	25.0	15.0	ND	10.0	5.0	ND	NI	NS
	19-Nov-98	NR	40	33.0	29.0	5.0	16.0	9.0	5.0	NI	NS
	21-Jul-99	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	40	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	40	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	40	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	40	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	40	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	40	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	40	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	25	2.7 J	ND	ND	14.5	ND	1.0 J	NI	ND
	12-Jul-07	NR	25	ND	ND	ND	19.4 J	ND	ND	NI	ND
GWPS = 3.5 ug/L (10/23/07)	19-Dec-07	NR	25	2.2 B	2.2 B	ND	15.7 J	3.0 B	1.2 B	4.0 J	0.62 J
	8-Jul-08	NR	25	2.6 J	2.4 J	ND	14.6 J	1.4 J	1.2 J	NS	0.20 J
	17-Dec-08	0.20	25.0	1.9 B	2.3 B	ND	13.9 J	2.5 B	1.2 B	NS	0.76 J
	9-Jul-09	0.20	25.0	3.9 B	9.7 J	2.5 B	18.4 J	2.9 B	2.2 B	8.5 J	1.30 J
	16-Dec-09	0.20	25.0	2.0 B	4.4 J	1.3 B	14.0 J	2.2 B	1.5 B	NS	0.53 J
	24-Jun-10	0.20	25.0	1.8 J	4.4 J	1.5 J	13.3 J	2.2 J	1.3 J	NS	ND
GWPS = 0.3 ug/L (10/1/10)	13-Dec-10	0.20	25.0	3.2 J	3.6 J	0.35 B	16.6 J	1.8 B	1.0 B	NS	0.36 J
	20-Jun-11	5.0	25.0	ND	ND	ND	14.5 J	ND	ND	NS	ND
	5-Dec-11	5.0	25.0	ND	ND	ND	13.5 J	ND	ND	NS	ND
	11-Jun-12	5.0	25.0	ND	18.0 J	ND	12.3 J	ND	ND	ND	ND
	12-Dec-12	5.0	25.0	ND	ND	ND	13.6 J	ND	ND	NS	ND
	1-May-13	5.0	25.0	ND	ND	ND	6.3 J	ND	ND	ND	ND
	5-Aug-13	5.0	25.0	ND	ND	ND	10.2 J	ND	ND	NS	ND
	24-Feb-14	5.0	25.0	ND	ND	ND	12.9 J	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Zinc	8-Sep-94	NR	50	110	160	ND	ND	320	430	NI	NS
	1-Dec-94	NR	50	132	ND	ND	70	164	ND	NI	NS
	9-Feb-95	NR	50	144	89	ND	91	79	74	NI	NS
	2-Mar-95	NR	50	67	ND	ND	ND	111	ND	NI	NS
	15-Nov-95	NR	50	ND	50	ND	ND	ND	ND	NI	NS
	28-May-96	NR	50	136	ND	ND	ND	122	ND	NI	NS
	22-Nov-96	NR	50	79.0	48.0	28.0	ND	38.0	ND	NI	NS
	17-Jun-97	NR	50	370	410	33.0	39.0	36.0	69.0	NI	NS
	1-Dec-97	NR	50	140	110	11.0	45.0	34.0	30.0	NI	NS
	20-May-98	NR	50	70.0	63.0	23.0	31.0	47.0	34.0	NI	NS
	19-Nov-98	NR	50	61.0	33.0	21.0	17.0	53.0	10.0	NI	NS
	21-Jul-99	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	50	ND	ND	ND	ND	382	ND	NI	NS
	19-Nov-02	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	50	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	50	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	50	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	50	ND	ND	ND	66.0	ND	ND	NI	ND
	29-Jun-05	NR	50	ND	54.0	56.0	ND	ND	ND	NI	ND
	29-Dec-05	NR	50	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	50	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	50	8.0 J	ND	ND	4.1 J	4.3 J	4.1 J	NI	ND
	12-Jul-07	NR	10	9.6 J	ND	ND	ND	ND	ND	NI	ND
NC 2L = 1,050 ug/L (10/23/07)	19-Dec-07	NR	10	4.3 B	14.3 B	6.3 B	ND	ND	ND	2.4 B	102
	8-Jul-08	NR	10	5.9 B	ND	ND	ND	4.1 B	ND	NS	1.2 J
	17-Dec-08	0.40	10.0	2.4 B	6.3 J	ND	ND	4.6 J	0.60 B	NS	0.49 J
	9-Jul-09	0.40	10.0	3.4 B	ND	ND	ND	ND	ND	6.1 B	1.6 J
	16-Dec-09	0.40	10.0	4.6 B	ND	ND	ND	7.4 B	ND	NS	7.7 J
NC 2L = 1,000 ug/L (02/05/10)	24-Jun-10	0.40	10.0	0.58 J	ND	ND	ND	ND	1.3 J	NS	ND
	13-Dec-10	0.40	10.0	4.5 B	ND	ND	ND	ND	ND	NS	6.7 J
	20-Jun-11	10.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	10.0	10.0	ND	ND	ND	ND	ND	ND	NS	12.4
	11-Jun-12	10.0	10.0	ND	20.9	ND	ND	ND	ND	ND	ND
	12-Dec-12	10.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	10.0	10.0	ND	ND	ND	ND	11.8	ND	10.0	ND
	5-Aug-13	10.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	10.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide*	9-Jul-09	5.0	10	ND	ND	ND	ND	46.9	ND	ND	ND
Resample >	28-Sep-09	5.0	10	NS	NS	NS	NS	ND	NS	NS	ND
NC 2L = 70 ug/L (10/23/07)	16-Dec-09	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Jun-10	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
Resample >	20-Jun-11	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	5.0	10.0	ND	6.4 J	ND	ND	8.7 J	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	5.0	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	5.0	10.0	ND	ND	ND	ND	ND	ND	ND	5.5 J

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
ORGANICS											
Acetone	27-Oct-01	NR	100	244 B	109 B	ND	130 B	128 B	476 B	NI	479
	13-Jun-02	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 700 ug/L (10/23/07)	19-Dec-07	NR	100	ND	ND	ND	ND	ND	ND	ND	4.5 J
	8-Jul-08	NR	100	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	20.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	20.0	100	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	2.2	100	ND	ND	ND	ND	ND	ND	NS	2.8 J
NC 2L = 6,000 ug/L (02/05/10)	24-Jun-10	2.2	100	ND	18.5 B	6.5 B	ND	2.2 B	ND	NS	7.7 J
	13-Dec-10	2.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	2.2	100	ND	ND	ND	ND	ND	2.4 B	NS	3.9 J
	5-Dec-11	2.2	100	ND	2.3 B	ND	ND	ND	ND	NS	8.8 J
	11-Jun-12	2.2	100	ND	3.5 B	ND	ND	ND	ND	ND	4.7 J
	12-Dec-12	10.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	10.0	100	ND	ND	ND	ND	ND	ND	ND	14.6 J
	5-Aug-13	10.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	10.0	100	ND	ND	ND	ND	ND	ND	ND	25.7 J
Benzene	8-Sep-94	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-94	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	9-Feb-95	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	2-Mar-95	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	15-Nov-95	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	28-May-96	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	20-May-98	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	3	ND	1.5	ND	ND	ND	ND	NI	ND
Resample >	23-Feb-07	NR	3	NS	1.2	NS	NS	NS	NS	NI	ND
	12-Jul-07	NR	1	ND	1.9	ND	ND	ND	ND	NI	ND
NC 2L = 1 ug/L (10/23/07)	19-Dec-07	NR	1	ND	1.8	0.48 J	0.26 J	ND	ND	ND	ND
	8-Jul-08	NR	1	ND	1.4	0.51 J	0.32 J	ND	ND	NS	ND
	17-Dec-08	0.25	1.0	ND	1.7	0.54 J	ND	ND	ND	NS	ND
	9-Jul-09	0.25	1.0	ND	1.7	0.34 J	ND	ND	ND	ND	ND
	16-Dec-09	0.25	1.0	ND	1.7	0.60 J	0.29 J	ND	ND	NS	ND
	24-Jun-10	0.25	1.0	ND	0.77 J	0.49 J	0.33 J	ND	ND	NS	ND
	13-Dec-10	0.25	1.0	ND	1.8	0.59 J	0.37 J	ND	ND	NS	ND
Resample >	8-Feb-11	0.25	1.0	NS	1.4	NS	NS	NS	NS	NS	ND
	20-Jun-11	0.25	1.0	ND	1.7	0.60 J	0.39 J	ND	ND	NS	ND
	5-Dec-11	0.25	1.0	ND	1.4	0.69 J	0.40 J	ND	ND	NS	ND
	11-Jun-12	0.25	1.0	ND	ND	0.51 J	ND	ND	ND	ND	ND
	12-Dec-12	0.25	1.0	ND	1.6	0.73 J	0.32 J	ND	ND	NS	ND
Resample >	10-Jan-13	0.25	1.0	ND	1.4	NS	NS	NS	NS	ND	ND
	1-May-13	0.25	1.0	ND	1.3	0.56 J	0.27 J	ND	ND	ND	ND
	5-Aug-13	0.25	1.0	ND	1.6	0.64 J	0.44 J	ND	ND	NS	ND
	24-Feb-14	0.25	1.0	ND	1.4	ND	ND	ND	ND	ND	ND
Bromomethane	17-Dec-08	0.29	10.0	ND	ND	0.58 J	ND	ND	ND	NS	ND
NC 2L = NE ug/L (10/23/07)	9-Jul-09	0.29	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
GWPS = 10 ug/L (8/1/10)	13-Dec-10	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.29	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	11-Jun-12	0.29	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.29	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.29	10.0	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
2-Butanone	17-Dec-08	0.96	100	ND	ND	ND	ND	1.2 J	ND	NS	ND
NC 2L = 4,200 ug/L (10/23/07)	9-Jul-09	0.96	100	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
NC 2L = 4,000 ug/L (02/05/10)	24-Jun-10	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.96	100	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.96	100	ND	ND	ND	ND	ND	ND	ND	ND
	8-May-13	0.96	100	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.96	100	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	17-Jun-97	NR	100	ND	64.0	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	100	ND	5.0	8.0	ND	ND	ND	NI	NS
	20-May-98	NR	100	ND	7.5	6.2	ND	ND	ND	NI	NS
	19-Nov-98	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 700 ug/L (10/23/07)	19-Dec-07	NR	100	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	100	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	1.2	100	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	1.2	100	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	1.2	100	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	1.2	100	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	1.2	100	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	8-Sep-94	NR	5	ND	10.0	7.0	ND	ND	ND	NI	NS
	1-Dec-94	NR	5	ND	ND	7.0	ND	ND	ND	NI	NS
	9-Feb-95	NR	5	ND	13.0	8.0	6.0	ND	ND	NI	NS
	2-Mar-95	NR	5	ND	12.0	9.0	ND	ND	ND	NI	NS
	15-Nov-95	NR	5	ND	14.0	8.0	9.0	ND	ND	NI	NS
	28-May-96	NR	5	ND	15.0	9.0	10.0	ND	ND	NI	NS
	22-Nov-96	NR	5	ND	15.0	ND	11.0	ND	ND	NI	NS
	17-Jun-97	NR	5	ND	19.0	11.0	14.0	ND	ND	NI	NS
	1-Dec-97	NR	5	ND	17.0	9.0	14.0	ND	ND	NI	NS
	20-May-98	NR	5	ND	20.0	8.6	12.0	ND	ND	NI	NS
	19-Nov-98	NR	5	ND	17.2	9.2	10.0	ND	ND	NI	NS
	21-Jul-99	NR	5	ND	14.0	10.0	11.0	ND	ND	NI	NS
	16-Nov-99	NR	5	ND	16.0	10.0	8.0	ND	ND	NI	NS
	10-May-00	NR	5	ND	17.0	11.0	10.0	ND	ND	NI	NS
	26-Oct-00	NR	5	ND	16.0	12.0	9.0	ND	ND	NI	NS
	18-Apr-01	NR	5	ND	16.0	13.0	6.0	ND	ND	NI	NS
	27-Oct-01	NR	0.5	ND	17.0	12.0	9.0	ND	ND	NI	NS
	13-Jun-02	NR	0.5	ND	16.0	11.0	8.0	ND	ND	NI	NS
	19-Nov-02	NR	0.5	ND	18.0	15.0	9.0	ND	ND	NI	NS
	27-Jun-03	NR	0.5	ND	17.7	13.3	7.4	ND	ND	NI	ND
	30-Dec-03	NR	5	ND	20.0	15.0	6.1	ND	ND	NI	ND
	30-Jun-04	NR	5	ND	18.0	15.0	9.9	ND	ND	NI	ND
	29-Dec-04	NR	5	ND	19.0	16.0	9.4	ND	ND	NI	ND
	29-Jun-05	NR	5	ND	15.0	13.0	8.0	ND	ND	NI	ND
	29-Dec-05	NR	5	ND	18.0	16.0	5.0	ND	ND	NI	ND
	28-Jun-06	NR	5	ND	16.5	10.8	7.8	ND	ND	NI	ND
	29-Dec-06	NR	3	ND	17.0	17.0	4.2	ND	ND	NI	ND
	12-Jul-07	NR	3	ND	17.0	16.0	ND	ND	ND	NI	ND
NC 2L = 50 ug/L (10/23/07)	19-Dec-07	NR	3	ND	17.3	16.9	4.7	ND	ND	ND	ND
	8-Jul-08	NR	3	ND	17.2	17.4	6.5	ND	ND	NS	ND
	17-Dec-08	0.23	3.0	ND	15.9	15.6	2.6 J	ND	ND	NS	ND
	9-Jul-09	0.23	3.0	ND	16.1	17.2	6.1	ND	ND	ND	ND
	16-Dec-09	0.23	3.0	ND	15.5	17.7	4.8	ND	ND	NS	ND
	24-Jun-10	0.23	3.0	ND	8.3	15.7	6.3	ND	ND	NS	ND
	13-Dec-10	0.23	3.0	ND	17.7	18.2	6.4	ND	ND	NS	0.28 J
	20-Jun-11	0.23	3.0	ND	16.3	17.2	6.7	ND	ND	NS	ND
	5-Dec-11	0.23	3.0	ND	14.2	17.0	5.8	ND	ND	NS	ND
	11-Jun-12	0.23	3.0	ND	12	14.8	4.4	ND	ND	ND	ND
	12-Dec-12	0.23	3.0	ND	15.8	17.9	4.5	ND	ND	NS	ND
	1-May-13	0.23	3.0	ND	14.0	16.6	3.0 J	ND	ND	ND	ND
	5-Aug-13	0.23	3.0	ND	14.4	15.9	4.6	ND	ND	NS	ND
	24-Feb-14	0.23	3.0	ND	16.3	2.5 J	1.4 J	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Chloroethane	1-Dec-97	NR	10	ND	5.0	2.0	2.0	ND	ND	NI	NS
	20-May-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	10	ND	2.2	1.9	ND	ND	ND	NI	ND
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 2,800 ug/L (10/23/07)	19-Dec-07	NR	10	ND	1.9	1.9	1.5	ND	ND	ND	ND
	8-Jul-08	NR	10	ND	2.2 J	2.5 J	1.8 J	ND	ND	NS	ND
	17-Dec-08	0.54	10.0	ND	1.6 J	ND	ND	ND	ND	NS	ND
	9-Jul-09	0.54	10.0	ND	ND	ND	3.8 J	ND	ND	ND	ND
	16-Dec-09	0.54	10.0	ND	ND	2.2 J	2.0 J	ND	ND	NS	ND
NC 2L = 3,000 ug/L (02/05/10)	24-Jun-10	0.54	10.0	ND	ND	2.1 J	2.0 J	ND	ND	NS	ND
	13-Dec-10	0.54	10.0	ND	1.8 J	2.0 J	1.7 J	ND	ND	NS	ND
	20-Jun-11	0.54	10.0	ND	1.2 J	2.2 J	2.0 J	ND	ND	NS	ND
	5-Dec-11	0.54	10.0	ND	1.3 J	2.0 J	1.7 J	ND	ND	NS	ND
	11-Jun-12	0.54	10.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.54	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.54	10.0	ND	ND	1.9 J	2.7 J	ND	ND	ND	ND
	5-Aug-13	0.54	10.0	ND	ND	2.0 J	2.2 J	ND	ND	NS	ND
	24-Feb-14	0.54	10.0	ND	1.1 J	0.82 J	ND	ND	ND	ND	ND
Chloromethane	9-Jul-09	0.11	1.0	ND	ND	ND	ND	ND	ND	ND	ND
NC 2L = 2.6 ug/L (10/23/07)	16-Dec-09	0.11	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	0.11	1.0	ND	ND	ND	ND	ND	0.11 J	NS	ND
NC 2L = 3 ug/L (02/05/10)	13-Dec-10	0.11	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.11	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.11	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.11	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.11	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.11	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.11	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.11	1.0	ND	ND	ND	ND	ND	ND	ND	0.25 J
1,2-Dichlorobenzene	1-Dec-97	NR	5	ND	3.0	2.0	1.0	ND	ND	NI	NS
	20-May-98	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	5	ND	2.4	2.3	ND	ND	ND	NI	NS
	21-Jul-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	5	ND	1.5	2.3	ND	ND	ND	NI	ND
	12-Jul-07	NR	5	ND	1.4 J	1.7 J	0.31 J	ND	ND	NI	ND
NC 2L = 24 ug/L (10/23/07)	19-Dec-07	NR	5	ND	1.6	2.0	0.37 J	ND	ND	ND	ND
	8-Jul-08	NR	5	ND	1.6 J	2.0 J	0.39 J	ND	ND	NS	ND
	17-Dec-08	0.30	5.0	ND	1.4 J	1.9 J	ND	ND	ND	NS	ND
	9-Jul-09	0.30	5.0	ND	1.6 J	2.0 J	0.36 J	ND	ND	ND	ND
	16-Dec-09	0.30	5.0	ND	1.6 J	2.0 J	0.33 J	ND	ND	NS	ND
NC 2L = 20 ug/L (02/05/10)	24-Jun-10	0.30	5.0	ND	0.96 J	1.7 J	0.31 J	ND	ND	NS	ND
	13-Dec-10	0.30	5.0	ND	1.9 J	1.9 J	0.43 J	ND	ND	NS	ND
	20-Jun-11	0.30	5.0	ND	1.5 J	1.7 J	0.37 J	ND	ND	NS	ND
	5-Dec-11	0.30	5.0	ND	1.3 J	1.6 J	ND	ND	ND	NS	ND
	11-Jun-12	0.30	5.0	ND	1.0 J	1.5 J	ND	ND	ND	ND	ND
	12-Dec-12	0.30	5.0	ND	1.3 J	1.7 J	ND	ND	ND	NS	ND
	1-May-13	0.30	5.0	ND	1.2 J	1.6 J	ND	ND	ND	ND	ND
	5-Aug-13	0.30	5.0	ND	1.2 J	1.6 J	0.30 J	ND	ND	NS	ND
	24-Feb-14	0.30	5.0	ND	1.4 J	0.64 J	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
1,4-Dichlorobenzene	8-Sep-94	NR	5	ND	ND	5.0	ND	ND	ND	NI	NS
	1-Dec-94	NR	5	ND	ND	5.0	ND	ND	ND	NI	NS
	9-Feb-95	NR	5	ND	8.0	6.0	ND	ND	ND	NI	NS
	2-Mar-95	NR	5	ND	7.0	6.0	ND	ND	ND	NI	NS
	15-Nov-95	NR	5	ND	7.0	6.0	ND	ND	ND	NI	NS
	28-May-96	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	5	ND	7.6	6.2	ND	ND	ND	NI	NS
	1-Dec-97	NR	5	ND	6.0	5.0	4.0	ND	ND	NI	NS
	20-May-98	NR	5	ND	7.6	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	5	ND	3.7	2.8	ND	ND	ND	NI	NS
	21-Jul-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	5	ND	5.0	6.0	ND	ND	ND	NI	NS
	18-Apr-01	NR	5	ND	ND	5.0	6.0	ND	ND	NI	NS
	27-Oct-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	3	ND	3.0	3.3	ND	ND	ND	NI	ND
Resample >	23-Feb-07	NR	3	NS	3.2	3.3	NS	NS	NS	NI	ND
	12-Jul-07	NR	1	ND	3.3	2.9	0.31 J	ND	ND	NI	ND
NC 2L = 1.4 ug/L (10/23/07)	19-Dec-07	NR	1	ND	3.0	2.7	ND	ND	ND	ND	ND
	8-Jul-08	NR	1	ND	3.0	2.4	ND	ND	ND	NS	ND
	17-Dec-08	0.33	1.0	ND	2.9	2.5	ND	ND	ND	NS	ND
	9-Jul-09	0.33	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.33	1.0	ND	2.8	2.2	ND	ND	ND	NS	ND
NC 2L = 6 ug/L (02/05/10)	24-Jun-10	0.33	1.0	ND	1.6	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.33	1.0	ND	3.1	1.9	ND	ND	ND	NS	ND
	20-Jun-11	0.33	1.0	ND	2.7	1.6	ND	ND	ND	NS	ND
	5-Dec-11	0.33	1.0	ND	2.2	1.4	ND	ND	ND	NS	ND
	11-Jun-12	0.33	1.0	ND	1.8	1.4	ND	ND	ND	ND	ND
	12-Dec-12	0.33	1.0	ND	2.4	1.3	ND	ND	ND	NS	ND
	1-May-13	0.33	1.0	ND	2.1	1.2	ND	ND	ND	ND	ND
	5-Aug-13	0.33	1.0	ND	2.0	1.3	ND	ND	ND	NS	ND
	24-Feb-14	0.33	1.0	ND	2.2	1.8	ND	ND	ND	ND	ND
Trans-1,4-Dichloro-2-Butene	20-May-98	NR	100	ND	ND	5.1	ND	ND	ND	NI	NS
	19-Nov-98	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	100	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	100	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = NE ug/L (10/23/07)	19-Dec-07	NR	100	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	100	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	1.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
1,1-Dichloroethane	1-Dec-97	NR	5	ND	ND	1.0	ND	ND	ND	NI	NS
	20-May-98	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	5	ND	ND	0.36 J	0.52 J	ND	ND	NI	ND
NC 2L = 70 ug/L (10/23/07)	19-Dec-07	NR	5	ND	ND	ND	0.57 J	ND	ND	ND	ND
	8-Jul-08	NR	5	ND	ND	ND	0.60 J	ND	ND	NS	ND
	17-Dec-08	0.32	5.0	ND	ND	ND	0.51 J	ND	ND	NS	ND
	9-Jul-09	0.32	5.0	ND	ND	ND	0.84 J	ND	ND	ND	ND
	16-Dec-09	0.32	5.0	ND	ND	ND	0.73 J	ND	ND	NS	ND
NC 2L = 6 ug/L (02/05/10)	24-Jun-10	0.32	5.0	ND	ND	ND	0.53 J	ND	ND	NS	ND
	13-Dec-10	0.32	5.0	ND	ND	ND	0.60 J	ND	ND	NS	ND
	20-Jun-11	0.32	5.0	ND	ND	ND	0.63 J	ND	ND	NS	ND
	5-Dec-11	0.32	5.0	ND	ND	ND	0.67 J	ND	ND	NS	ND
	11-Jun-12	0.32	5.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.32	5.0	ND	ND	ND	0.61 J	ND	ND	NS	ND
	1-May-13	0.32	5.0	ND	ND	ND	0.62 J	ND	ND	ND	ND
	8-May-13	0.32	5.0	ND	ND	ND	0.53 J	ND	ND	NS	ND
	24-Feb-14	0.32	5.0	ND	ND	ND	0.50 J	ND	ND	ND	ND
1,2-Dichloroethane	17-Dec-08	0.12	1.0	ND	ND	0.15 J	ND	ND	ND	NS	ND
NC 2L = 0.38 ug/L (10/23/07)	9-Jul-09	0.12	1.0	ND	ND	ND	ND	ND	ND	ND	0.19 J
	16-Dec-09	0.12	1.0	ND	ND	0.14 J	ND	ND	ND	NS	ND
NC 2L = 0.4 ug/L (02/05/10)	24-Jun-10	0.12	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.12	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.12	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.12	1.0	ND	ND	ND	ND	0.18 J	ND	NS	ND
	11-Jun-12	0.12	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.12	1.0	ND	ND	ND	ND	-0.20 J	ND	NS	0.20 (ND) J
	1-May-13	0.12	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.12	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.12	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	17-Dec-08	0.30	1.0	ND	0.31 J	ND	ND	ND	ND	NS	ND
NC 2L = 550 ug/L (10/23/07)	9-Jul-09	0.30	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
NC 2L = 600 ug/L (02/05/10)	24-Jun-10	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.30	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.30	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.30	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.30	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Isobutanol*	24-Jun-10	35.0	100	ND	59.0 J	ND	ND	ND	ND	NS	ND
NC 2L = NE ug/L (02/05/10)	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-11	35.0	100	ND	39.5 J	ND	ND	ND	ND	NS	ND
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	35.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	35.0	100	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	35.0	100	ND	ND	ND	ND	ND	ND	NS	ND
Methylene Chloride	9-Jul-09	0.97	2.0	ND	ND	ND	ND	ND	ND	ND	9.6
NC 2L = 4.3 ug/L (10/23/07)	16-Dec-09	0.97	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	0.97	1.0	ND	19.0	ND	ND	ND	ND	NS	ND
NC 2L = 5 ug/L (02/05/10) *Resample >*	12-Aug-10	0.97	1.0	NS	ND	NS	NS	NS	NS	NS	ND
	13-Dec-10	0.97	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.97	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.97	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.97	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.97	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.97	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.97	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.97	1.0	1.0	ND	ND	ND	ND	ND	ND	ND
Naphthalene*	8-Jul-08	NR	10	ND	3.8 J	ND	ND	ND	ND	NS	ND
NC 2L = 21 ug/L (10/23/07)	17-Dec-08	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	9-Jul-09	0.24	10.0	ND	2.4 J	ND	ND	ND	ND	NS	ND
	16-Dec-09	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
NC 2L = 6 ug/L (02/05/10)	24-Jun-10	0.24	10.0	ND	7.4 J	ND	ND	ND	ND	NS	ND
	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-11	0.24	10.0	ND	4.6 J	ND	ND	ND	ND	NS	0.39 J
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.2	10.0	ND	4.6 J	ND	ND	ND	ND	ND	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.24	10.0	ND	5.1 J	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.24	10.0	ND	5.8 J	ND	ND	ND	ND	NS	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Toluene	20-May-98	NR	5	ND	ND	8.1	ND	ND	ND	NI	NS
	19-Nov-98	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	5	ND	ND	ND	ND	ND	ND	NI	-
	30-Dec-03	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	1	ND	0.49 B	ND	ND	ND	ND	NI	0.34 J
NC 2L = 1,000 ug/L (10/23/07)	19-Dec-07	NR	1	ND	0.51 J	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	1	ND	0.39 J	ND	ND	1.3	ND	NS	ND
	17-Dec-08	0.26	1.0	1.4	1.6	ND	ND	11.7	ND	NS	ND
	9-Jul-09	0.26	1.0	ND	0.46 J	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.26	1.0	ND	0.42 J	ND	ND	ND	ND	NS	ND
NC 2L = 600 ug/L (02/05/10)	24-Jun-10	0.26	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.26	1.0	ND	0.54 J	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.26	1.0	ND	0.34 J	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.26	1.0	ND	0.28 J	ND	ND	0.30 J	ND	NS	ND
	11-Jun-12	0.26	1.0	ND	0.28 J	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.26	1.0	ND	0.29 J	ND	ND	0.36 J	ND	NS	ND
	1-May-13	0.26	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.26	1.0	ND	0.29 J	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.26	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	8-Sep-94	NR	10	ND	ND	12.0	ND	ND	ND	NI	NS
	1-Dec-94	NR	10	ND	ND	13.0	ND	ND	ND	NI	NS
	9-Feb-95	NR	10	ND	ND	15.0	ND	ND	ND	NI	NS
	2-Mar-95	NR	10	ND	ND	14.0	ND	ND	ND	NI	NS
	15-Nov-95	NR	10	ND	ND	11.0	ND	ND	ND	NI	NS
	28-May-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	22-Nov-96	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	17-Jun-97	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	1-Dec-97	NR	10	ND	ND	7.0	4.0	ND	ND	NI	NS
	20-May-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-98	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	21-Jul-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	16-Nov-99	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	10-May-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	26-Oct-00	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	18-Apr-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	19-Nov-02	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	10	ND	ND	ND	ND	ND	ND	NI	NS
	30-Dec-03	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	5.5	ND	ND	0.98 J	ND	ND	ND	NI	ND
Resample >	23-Feb-07	NR	5.5	NS	NS	1.0	NS	NS	NS	NI	ND
	12-Jul-07	NR	1	ND	ND	ND	ND	ND	ND	NS	ND
NC 2L = 0.015 ug/L (10/23/07)	19-Dec-07	NR	1	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	1	ND	ND	0.76 J	ND	ND	ND	NS	ND
	17-Dec-08	0.62	1.0	ND	ND	0.76 J	ND	ND	ND	NS	ND
	9-Jul-09	0.62	1.0	ND	ND	0.99 J	ND	ND	ND	ND	ND
	16-Dec-09	0.62	1.0	ND	ND	0.81 J	ND	ND	ND	NS	ND
NC 2L = 0.03 ug/L (02/05/10)	24-Jun-10	0.62	1.0	ND	ND	0.77 J	ND	ND	ND	NS	ND
	13-Dec-10	0.62	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.62	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.62	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.62	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.62	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.62	1.0	ND	ND	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.62	1.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.62	1.0	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Total Xylenes	29-Dec-06	NR	5	ND	1.4	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	4	ND	1.2 J	ND	ND	ND	ND	NI	ND
NC 2L = 530 ug/L (10/23/07)	19-Dec-07	NR	4	ND	2.0	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	4	ND	1.1 J	ND	ND	ND	ND	NS	ND
	17-Dec-08	0.66	2.0	1.4 J	2.7	ND	ND	ND	ND	NS	ND
	9-Jul-09	0.66	2.0	ND	1.5 J	ND	ND	ND	ND	ND	ND
	16-Dec-09	0.66	2.0	ND	2.2	ND	ND	ND	ND	NS	ND
NC 2L = 500 ug/L (02/05/10)	24-Jun-10	0.66	2.0	ND	0.73 J	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.66	2.0	ND	2.0	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.66	2.0	ND	1.4 J	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.66	2.0	ND	1.1 J	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.66	2.0	ND	0.91 J	ND	ND	ND	ND	ND	ND
	12-Dec-12	0.66	5.0	ND	0.97 J	ND	ND	ND	ND	NS	ND
	1-May-13	0.66	5.0	ND	0.68 J	ND	ND	ND	ND	ND	ND
	5-Aug-13	0.66	5.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.66	5.0	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	24-Feb-14	0.79	15.0	2.6 J	ND	ND	ND	ND	ND	ND	ND
NC 2L = 3 ug/L (2/5/10)	15-Apr-14	0.79									
N-Nitroso-di-n-butylamine	24-Feb-14	7.5	10.0	ND	ND	ND	8.6 J	ND	ND	ND	ND
Benzo(g,h,i)perylene*	20-Jun-11	0.4	10.0	ND	ND	ND	ND	ND	1.4 J	NS	ND
NC 2L = 200 ug/L (2/5/10)	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.38	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.38	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.38	10.0	ND	ND	ND	ND	ND	ND	NS	ND
Dibenz(a,h)anthracene*	20-Jun-11	0.55	10.0	ND	ND	ND	ND	ND	1.5 J	NS	ND
NC 2L = 0.005 ug/L (2/5/10)	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.55	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.55	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.55	10.0	ND	ND	ND	ND	ND	ND	NS	ND
Fluorene*	24-Jun-10	3.8	12.2	ND	4.3 J	ND	ND	ND	ND	NS	ND
NC 2L = 300 ug/L (2/5/10) *Resample* >	12-Aug-10	3.1	10.0	NS	ND	NS	NS	NS	NS	NS	ND
	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-11	0.2	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.21	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.21	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.21	10.0	ND	ND	ND	ND	ND	ND	NS	ND
Indeno(1,2,3-cd)pyrene*	20-Jun-11	0.29	10.0	ND	ND	ND	ND	ND	1.3 J	NS	ND
NC 2L = 0.05 ug/L (2/5/10)	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.29	10.0	ND	ND	ND	ND	ND	ND	NS	ND
2-Methylnaphthalene*	24-Jun-10	5.1	12.2	ND	38.9	ND	ND	ND	ND	NS	ND
NC 2L = 30 ug/L (02/05/10) *Resample* >	12-Aug-10	4.2	10	NS	ND	NS	NS	NS	NS	NS	ND
	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-11	0.3	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	0.28	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.28	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.28	10.0	ND	ND	ND	ND	ND	ND	NS	ND
Phorate	18-Apr-01	NR	10	NS	3.2	ND	ND	ND	NS	NI	NS
	27-Oct-01	NR	5	ND	8.1	ND	ND	ND	ND	NI	NS
	27-Oct-01	NR	0.5	NS	8.1	1.3	ND	ND	NS	NI	NS
	13-Jun-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	13-Jun-02	NR	0.5	NS	ND	ND	ND	ND	NS	NI	NS
	19-Nov-02	NR	5	ND	ND	ND	ND	ND	ND	NI	NS
	27-Jun-03	NR	5	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	NR	NS	NS	NS	NS	NS	NS	NI	NS
	28-Jun-06	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	NR	NS	NS	NS	NS	NS	NS	NI	NS
	12-Jul-07	NR	10	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 1.4 ug/L (10/23/07)	19-Dec-07	NR	NR	NS	NS	NS	NS	NS	NS	ND	NS
	8-Jul-08	NR	10	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	9-Jul-09	6.6	22.2	ND	ND	ND	ND	ND	ND	NS	ND
	16-Dec-09	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
NC 2L = 1 ug/L (02/05/10)	24-Jun-10	6.5	24.1	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	20-Jun-11	5.4	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	11-Jun-12	5.4	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	5.4	10.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	5.4	10.0	ND	ND	ND	ND	ND	ND	NS	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
Beta-BHC*	11-Jun-12	0.050	0.050	ND	ND	0.16	ND	ND	ND	NS	ND
NC 2L = 0.019 ug/L (10/23/07) Resample>	19-Jul-12	0.050	0.050	NS	NS	ND	NS	NS	NS	NS	NS
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.050	0.050	ND	0.052	ND	ND	ND	ND	NS	ND
Resample	15-Apr-14	0.050	0.050	NS	ND	NS	NS	NS	NS	NS	ND
Delta-BHC*	11-Jun-12	0.050	0.050	ND	ND	0.090	ND	ND	ND	NS	ND
NC 2L = 0.019 ug/L (10/23/07) Resample>	19-Jul-12	0.050	0.050	NS	NS	ND	NS	NS	NS	NS	NS
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
Gamma-BHC	27-Jun-03	NR	1.05	ND	0.085	ND	ND	ND	ND	NI	ND
	30-Dec-03	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 0.2 ug/L (10/23/07)	19-Dec-07	NR	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	0.50	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	16-Dec-09	0.01	0.1	ND	ND	ND	ND	ND	ND	NS	ND
NC 2L = 0.03 ug/L (02/05/10)	24-Jun-10	0.00021	0.010	ND	ND	0.052	ND	ND	ND	NS	ND
Resample >	12-Aug-10	0.00020	0.010	NS	NS	ND	NS	NS	NS	NS	ND
	13-Dec-10	0.00020	0.050	ND	ND	0.013 J	ND	ND	ND	NS	ND
	20-Jun-11	0.00020	0.050	ND	ND	0.066	ND	ND	ND	NS	ND
Resample >	28-Jul-11	0.00020	0.010	NS	NS	ND	NS	NS	NS	NS	ND
	5-Dec-11	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
Heptachlor	27-Jun-03	NR	1.05	ND	0.03	0.17	ND	ND	ND	NI	ND
	30-Dec-03	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	0.05	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 0.0078 ug/L (10/23/07)	19-Dec-07	NR	0.05	ND	ND	ND	ND	ND	ND	ND	ND
	8-Jul-08	NR	0.05	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	16-Dec-09	0.02	0.1	ND	ND	ND	ND	ND	ND	NS	ND
NC 2L = 0.008 ug/L (02/05/10)	24-Jun-10	0.0015	0.010	ND	ND	ND	ND	ND	ND	NS	ND
	13-Dec-10	0.0500	0.0015	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.050	0.0015	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.050	0.056	ND	0.062	ND	ND	ND	ND	NS	ND
Resample >	25-Jan-12	0.050	0.0500	NS	ND	NS	NS	NS	NS	NS	ND
	11-Jun-12	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.050	0.050	ND	ND	ND	ND	ND	ND	NS	ND
2,4-D*	27-Jun-03	NR	3	NS	5.9	ND	ND	ND	NS	NI	NS
	30-Dec-03	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	30-Jun-04	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-04	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Jun-05	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-05	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	28-Jun-06	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	29-Dec-06	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
	12-Jul-07	NR	2	ND	ND	ND	ND	ND	ND	NI	ND
NC 2L = 70 ug/L (10/23/07)	19-Dec-07	NR	2	ND	ND	ND	ND	ND	ND	ND	ND
	8-Apr-08	NR	2	ND	ND	ND	ND	ND	ND	NS	ND
	17-Dec-08	NR	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	9-Jul-09	NR	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	16-Dec-09	0.11	5.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Jun-10	0.23	2.1	ND	ND	ND	ND	ND	ND	NS	ND
	10-Dec-10	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	20-Jun-11	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Dec-11	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	11-Jun-12	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	12-Dec-12	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	1-May-13	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.22	2.0	ND	ND	ND	ND	ND	ND	NS	ND

TABLE 1:
HISTORICAL CONSTITUENTS IN GROUNDWATER

Analyte	Sample Collection Date	DL	QL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1S	Field Blanks
4,4'-DDD*	11-Jun-12	0.05	0.05	ND	ND	0.13	ND	ND	ND	NS	ND
NC 2L = 0.1 µg/L (2/5/10) *Resample>*	19-Jul-12	0.05	0.10	NS	NS	ND	NS	NS	NS	NS	NS
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND
4,4'-DDT*	11-Jun-12	0.05	0.05	ND	ND	0.10	ND	ND	ND	NS	ND
NC 2L = 0.1 µg/L (2/5/10) *Resample>*	19-Jul-12	0.05	0.10	NS	NS	0.063 J	NS	NS	NS	NS	NS
	12-Dec-12	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	1-May-13	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS
	24-Feb-14	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND
Endrin aldehyde*	11-Jun-12	0.050	0.050	ND	ND	0.14	ND	ND	ND	NS	NS
NC 2L= 2 (2/5/10)	12-Dec-12	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	NS
	1-May-13	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND
	5-Aug-13	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND
	24-Feb-14	0.050	0.10	ND	ND	ND	ND	ND	ND	NS	ND

Notes:
1. All concentrations are in micrograms per liter (mg/L).
2. RL = Laboratory reporting limit (NC SWSL from October 2007 to present).
3. ND = Not detected above laboratory reporting limit.
4. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks
5. NC 2L = North Carolina 2L Groundwater Standards.
6. GWPS = Groundwater Protection Standards.
7. When the NC 2L has not been established, the GWPS will be used.
8. Shaded values for groundwater are above the NC 2L Groundwater Standards or Groundwater Protection Standards.
7. Shaded values for surface water are above the NC 2B Surface Water Standards (NC2B) or National Criteria per EPA (EPA NC).
9. DL = Laboratory detection limit.
10. J = Estimated value between the DL and the RL
11. NI = Well/Piezometer not installed.
12. NS = Not sampled.
13. NR = Not Reported.
14. When results for a constituent are reported by both acceptable methods from the lab, the higher result is entered into the historical table.

TABLE 2:
HISTORICAL CONSTITUENTS IN SURFACE WATER

Analytes	Sample Collection Date	DL	QL	SW-1		SW-2		Field Blanks	
INORGANICS									
Arsenic	06/24/10	2.7	10.00	4.30	J	2.90	J	ND	
NC 2B = 10 ug/L (03/28/08)	12/13/10	2.7	10.0	ND		ND		ND	
	06/20/11	5	10.0	ND		ND		ND	
	12/05/11	5	10.0	ND		ND		ND	
	06/11/12	5	10.0	ND		ND		ND	
	12/12/12	5	10.0	ND		ND		ND	
	05/01/13	5	10.0	ND		ND		ND	
	08/05/13	5	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	
Barium	11/22/96	NR	500	37.0		37.0		NS	
	06/17/97	NR	500	37.0		62.0		NS	
	12/01/97	NR	500	53.0		45.0		NS	
	05/20/98	NR	500	24.0		69.0		NS	
	11/19/98	NR	500	ND		100.0		NS	
	07/21/99	NR	500	ND		ND		NS	
	11/16/99	NR	500	ND		ND		NS	
	05/10/00	NR	500	ND		ND		NS	
	10/26/00	NR	500	ND		ND		NS	
	04/18/01	NR	500	ND		ND		NS	
	10/27/01	NR	500	ND		ND		NS	
	06/13/02	NR	500	NS		NS		NS	
	11/19/02	NR	500	ND		ND		NS	
	06/27/03	NR	500	ND		ND		NS	
	12/30/03	NR	500	ND		ND		ND	
	06/30/04	NR	500	ND		ND		ND	
	12/29/04	NR	500	ND		ND		ND	
	12/29/04	NR	500	ND		ND		ND	
	06/29/05	NR	500	ND		ND		ND	
	12/29/05	NR	500	ND		ND		ND	
	06/28/06	NR	500	ND		ND		ND	
	12/29/06	NR	100	37.5		40.6		0.20	J
	07/12/07	NR	100	33.3	J	DRY		ND	
	12/19/07	NR	100	52.6	B	149.0		11.7	
NC 2B = 1,000 ug/L (03/28/08)	07/08/08	NR	100	33.8	J	161.0		0.3	J
	12/17/08	0.2	100	30.2	B	33.5	B	10.7	J
	07/09/09	0.2	100	36.8	B	78.4	B	17.6	J
	12/16/09	0.2	100	31.2	B	36.2	B	17.1	J
	06/24/10	0.2	100	34.5	B	71.3	B	27.3	J
	12/13/10	0.2	100	36.1	B	91.0	J	12.1	J
	06/20/11	5	100	40.3	J	93.0	J	ND	
	12/05/11	5	100	32.9	J	59.0	J	ND	
	06/11/12	5	100	40.0	J	95.6	J	ND	
	12/12/12	5	100	45.0	J	97.8	J	ND	
	05/01/13	5	100	32.7	J	43.1	J	ND	
	08/05/13	5	100	49.9	J	79.8	J	ND	
	02/24/14		100	29.0	J	30.4	J	ND	
Beryllium	07/08/08	NR	1.0	0.32	J	ND		ND	
	12/17/08	0.1	1.0	ND		ND		ND	
	07/09/09	0.1	1.0	ND		ND		ND	
	12/16/09	0.1	1.0	0.12	J	ND		ND	
NC 2B = 6.5 ug/L (02/05/10)	06/24/10	0.1	1.0	ND		ND		ND	
	12/13/10	0.1	1.0	ND		ND		ND	
	06/20/11	1	1.0	ND		ND		ND	
	12/05/11	1	1.0	ND		ND		ND	
	06/11/12	1	1.0	ND		ND		ND	
	12/12/12	1	1.0	ND		ND		ND	
	05/01/13	1	1.0	ND		ND		ND	
	08/05/13	1	1.0	ND		ND		ND	
	02/24/14		1.0	ND		ND		ND	

TABLE 2:
HISTORICAL CONSTITUENTS IN SURFACE WATER

Analytes	Sample Collection Date	DL	QL	SW-1		SW-2		Field Blanks	
Chromium	06/17/97	NR	10.0	ND		3.00		NS	
	12/01/97	NR	10.0	ND		ND		NS	
	05/20/98	NR	10.0	ND		ND		NS	
	11/19/98	NR	10.0	ND		ND		NS	
	07/21/99	NR	10.0	ND		ND		NS	
	11/16/99	NR	10.0	ND		ND		NS	
	05/10/00	NR	10.0	ND		ND		NS	
	10/26/00	NR	10.0	ND		ND		NS	
	04/18/01	NR	10.0	ND		ND		NS	
	10/27/01	NR	10.0	ND		ND		NS	
	06/13/02	NR	10.0	NS		NS		NS	
	11/19/02	NR	10.0	ND		ND		NS	
	06/27/03	NR	10.0	ND		ND		NS	
	12/30/03	NR	10.0	ND		ND		ND	
	06/30/04	NR	10.0	ND		ND		ND	
	12/29/04	NR	10.0	ND		ND		ND	
	06/29/05	NR	10.0	ND		ND		ND	
	12/29/05	NR	10.0	ND		ND		ND	
	06/28/06	NR	10.0	ND		ND		ND	
	12/29/06	NR	10.0	ND		ND		ND	
	07/12/07	NR	10.0	ND		DRY		ND	
	12/19/07	NR	10.0	2.20	B	2.60	B	1.40	J
NC 2B = 50 ug/L (03/28/08)	07/08/08	NR	10.0	2.50	J	2.20	J	ND	
	12/17/08	0.4	10.0	1.40	J	2.60	J	ND	
	07/09/09	0.4	10.0	2.6	J	1.2	J	ND	
	12/16/09	0.4	10.0	4.1	J	3.4	J	ND	
	06/24/10	0.4	10.0	3.3	B	7.3	J	0.71	J
	12/13/10	0.4	10.0	1.4	J	1.5	J	ND	
	06/20/11	5	10.0	ND		ND		ND	
	12/05/11	5	10.0	ND		ND		ND	
	06/11/12	5	10.0	ND		7.2	J	ND	
	12/12/12	5	10.0	ND		8.2	J	ND	
	05/01/13	5	10.0	5.7	J	ND		ND	
	08/05/13	5	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	
Cobalt	05/20/98	NR	10	2.0		2.0		NS	
	11/19/98	NR	10	ND		3.0		NS	
	07/21/99	NR	10	ND		ND		NS	
	11/16/99	NR	10	ND		ND		NS	
	05/10/00	NR	10	ND		ND		NS	
	10/26/00	NR	10	ND		ND		NS	
	04/18/01	NR	10	ND		ND		NS	
	10/27/01	NR	10.0	ND		22.0		NS	
	06/13/02	NR	10.0	NS		NS		NS	
	11/19/02	NR	10.0	ND		ND		NS	
	06/27/03	NR	10.0	ND		10.0		NS	
	12/30/03	NR	10.0	ND		ND		ND	
	06/30/04	NR	10.0	ND		ND		ND	
	12/29/04	NR	10.0	ND		ND		ND	
	06/29/05	NR	10.0	ND		ND		ND	
	12/29/05	NR	10.0	ND		ND		ND	
	06/28/06	NR	10.0	ND		ND		ND	
	12/29/06	NR	10.0	ND		ND		ND	
	07/12/07	NR	10.0	ND		DRY		ND	
	12/19/07	NR	10.0	4.2	B	1.20	B	1.8	J
	07/08/08	NR	10.0	4.80	B	10.5	B	6.20	J
	12/17/08	0.6	10.0	1.70	B	1.1	B	2.50	J
	07/09/09	0.6	10.0	ND		ND		ND	
	12/16/09	0.6	10.0	ND		1.0	J	ND	
NC 2B = NE ug/L (03/24/10)	06/24/10	0.6	10.0	ND		ND		ND	
	12/13/10	0.6	10.0	{4.4}	B	{ND}		1.6 {1.0 J}	J
	06/20/11	5	10.0	ND		ND		ND	
	12/05/11	5	10.0	ND		ND		ND	
Resample >	01/25/12	5	10.0	NS		NS		ND	
	06/11/12	5	10.0	ND		5.10	J	ND	
	12/12/12	5	10.0	ND		ND		ND	
	05/01/13	5	10.0	ND		ND		ND	
	08/05/13	5	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	

TABLE 2:
HISTORICAL CONSTITUENTS IN SURFACE WATER

Analytes	Sample Collection Date	DL	QL	SW-1		SW-2		Field Blanks	
Copper	12/29/06	NR	10.0	1.3	B	1.10	B	0.60	J
	07/12/07	NR	10.0	ND		DRY		ND	
	12/19/07	NR	10.0	5.3	B	ND		9.8	
NC 2B = 7 ug/L (03/28/08)	07/08/08	NR	10.0	1.7	J	4.20	J	ND	
	12/17/08	0.3	10.0	1.40	J	1.50	J	ND	
	07/09/09	0.3	10.0	ND		ND		ND	
	12/16/09	0.3	10.0	1.90	J	2.00	J	ND	
	06/24/10	0.3	10.0	ND		3.10	J	ND	
	12/13/10	0.3	10.0	0.31	B	ND		0.49	J
	06/20/11	5	10.0	ND		ND		ND	
	12/05/11	5	10.0	ND		ND		ND	
	06/11/12	5	10.0	ND		5.50	J	ND	
	12/12/12	5	10.0	ND		ND		ND	
	05/01/13	5	10.0	ND		ND		ND	
	08/05/13	5	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	
Lead	05/20/98	NR	10.0	ND		8.00		NS	
	11/19/98	NR	10.0	ND		ND		NS	
	07/21/99	NR	10.0	ND		10.0		NS	
	11/16/99	NR	10.0	ND		ND		NS	
	05/10/00	NR	10.0	ND		ND		NS	
	10/26/00	NR	10.0	ND		ND		NS	
	04/18/01	NR	10.0	ND		ND		NS	
	10/27/01	NR	10.0	ND		ND		NS	
	06/13/02	NR	10.0	NS		NS		NS	
	11/19/02	NR	10.0	ND		ND		NS	
	06/27/03	NR	10.0	ND		ND		NS	
	12/30/03	NR	10.0	ND		ND		ND	
	06/30/04	NR	10.0	ND		ND		ND	
	12/29/04	NR	10.0	ND		ND		ND	
	06/29/05	NR	10.0	ND		ND		ND	
	12/29/05	NR	10.0	ND		ND		ND	
	06/28/06	NR	10.0	ND		ND		ND	
	12/29/06	NR	10.0	ND		ND		ND	
	07/12/07	NR	10.0	ND		DRY		ND	
	12/19/07	NR	10.0	ND		ND		ND	
NC 2B = 25 ug/L (03/28/08)	07/08/08	NR	10.0	ND		ND		ND	
	12/17/08	4	10.0	ND		ND		ND	
	07/09/09	4	10.0	ND		ND		ND	
	12/16/09	4	10.0	ND		ND		ND	
	06/24/10	4	10.0	ND		ND		ND	
	12/13/10	4	10.0	ND		ND		ND	
	06/20/11	5	10.0	ND		ND		ND	
	12/05/11	5	10.0	ND		ND		ND	
	06/11/12	5	10.0	ND		ND		ND	
	12/12/12	5	10.0	ND		ND		ND	
	05/01/13	5	10.0	ND		ND		ND	
	08/05/13	5	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	
Nickel	12/29/04	NR	50.0	ND		50.0 (ND)		ND	
	06/29/05	NR	50.0	ND		ND		ND	
	12/29/05	NR	50.0	ND		ND		ND	
	06/28/06	NR	50.0	ND		ND		ND	
	12/29/06	NR	50.0	ND		2.9	J	ND	
	07/12/07	NR	50.0	3.8	J	DRY		ND	
	12/19/07	NR	50.0	6.0		31.5		ND	
NC 2B = 25 ug/L (03/28/08)	07/08/08	NR	50.0	3.2	J	29.8	J	ND	
	12/17/08	1.7	50.0	2.4	B	4.0	B	2.4	J
	07/09/09	1.7	50.0	4.1	J	12.3	J	ND	
	12/16/09	1.7	50.0	3.8	B	4.4	B	3.0	J
	06/24/10	1.7	50.0	ND		2.0	J	ND	
	12/13/10	1.7	50.0	ND		14.2	J	2.7	J
	06/20/11	5	50.0	ND		7.8	J	ND	
	12/05/11	5	50.0	ND		5.3	J	ND	
	06/11/12	5	50.0	ND		11.0	J	ND	
	12/12/12	5	50.0	ND		13.8	J	ND	
	05/01/13	5	50.0	ND		ND		ND	
	08/05/13	5	50.0	ND		5.6	J	ND	
	02/24/14		50.0	ND		ND		ND	

TABLE 2:
HISTORICAL CONSTITUENTS IN SURFACE WATER

Analytes	Sample Collection Date	DL	QL	SW-1		SW-2		Field Blanks	
Silver	07/12/07	NR	10.0	2.20	J	DRY		ND	
	12/19/07	NR	10.0	ND		0.34	J	ND	
NC 2B = 0.06 ug/L (03/28/08)	07/08/08	NR	10.0	0.35	B	1.00	J	0.12	J
	12/17/08	0.1	10.0	ND		ND		ND	
	07/09/09	0.1	10.0	ND		0.10	J	ND	
	12/16/09	0.1	10.0	ND		0.16	J	ND	
	06/24/10	0.1	10.0	ND		0.26	J	ND	
	12/13/10	0.1	10.0	{ND}		{0.28}	B	0.21 {0.19 J}	J
	06/20/11	5	10.0	ND		ND		ND	
	12/05/11	5	10.0	ND		ND		ND	
	06/11/12	5	10.0	ND		ND		ND	
	12/12/12	5	10.0	ND		ND		ND	
	05/01/13	5	10.0	ND		ND		ND	
	08/05/13	5	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	
Thallium	12/29/04	NR	10.0	ND		10.0 (ND)		ND	
	06/29/05	NR	10.0	ND		ND		ND	
	12/29/05	NR	10.0	ND		ND		ND	
	06/28/06	NR	10.0	ND		ND		ND	
	12/29/06	NR	6.00	ND		ND		ND	
	07/12/07	NR	5.50	ND		DRY		ND	
	12/19/07	NR	5.50	3.60	J	ND		ND	
	07/08/08	NR	5.50	3.40	J	ND		ND	
	12/17/08	3	5.50	ND		ND		ND	
	07/09/09	3	5.50	ND		ND		ND	
	12/16/09	3	5.50	ND		ND		ND	
NC 2B = NE (03/24/10)	06/24/10	3	5.50	ND		ND		ND	
	12/13/10	3	5.50	3.80	J	ND		ND	
	06/20/11	5.4	5.50	ND		ND		ND	
	12/05/11	5.4	5.50	ND		ND		ND	
	06/11/12	5.4	5.50	ND		ND		ND	
	12/12/12	5.4	5.50	ND		ND		ND	
	05/01/13	5.4	5.50	ND		ND		ND	
	08/05/13	5.4	5.50	ND		ND		ND	
	02/24/14		5.50	ND		ND		ND	
Vanadium	12/29/06	NR	25.0	1.60	J	2.00	J	ND	
	07/12/07	NR	25.0	4.60	J	DRY		ND	
	12/19/07	NR	25.0	3.30	J	1.40	B	0.62	J
NC 2B = NE ug/L (03/28/08)	07/08/08	NR	25.0	5.20	J	2.30	J	0.20	J
	12/17/08	0.2	25.0	1.80	B	2.70	B	0.76	J
	07/09/09	0.2	25.0	5.00	B	3.40	B	1.30	J
	12/16/09	0.2	25.0	3.60	J	3.50	J	0.53	J
	06/24/10	0.2	25.0	5.80	J	2.60	J	ND	
	12/13/10	0.2	25.0	1.60	B	0.67	B	0.36	J
	06/20/11	5	25.0	ND		ND		ND	
	12/05/11	5	25.0	ND		ND		ND	
	06/11/12	5	25.0	ND		11.50	J	ND	
	12/12/12	5	25.0	ND		ND		ND	
	05/01/13	5	25.0	ND		ND		ND	
	08/05/13	5	25.0	ND		ND		ND	
	02/24/14		25.0	ND		ND		ND	

TABLE 2:
HISTORICAL CONSTITUENTS IN SURFACE WATER

Analytes	Sample Collection Date	DL	QL	SW-1		SW-2		Field Blanks	
Zinc	11/22/96	NR	50.0	11.0		ND		NS	
	06/17/97	NR	50.0	ND		ND		NS	
	12/01/97	NR	50.0	20.0		ND		NS	
	05/20/98	NR	50.0	20.0		28.0		NS	
	11/19/98	NR	50.0	ND		ND		NS	
	07/21/99	NR	50.0	ND		ND		NS	
	11/16/99	NR	50.0	ND		ND		NS	
	05/10/00	NR	50.0	ND		ND		NS	
	10/26/00	NR	50.0	ND		ND		NS	
	04/18/01	NR	50.0	ND		ND		NS	
	10/27/01	NR	50.0	ND		ND		NS	
	06/13/02	NR	50.0	NS		NS		NS	
	11/19/02	NR	50.0	ND		ND		NS	
	06/27/03	NR	50.0	ND		ND		NS	
	12/30/03	NR	50.0	ND		ND		ND	
	06/30/04	NR	50.0	ND		ND		ND	
	12/29/04	NR	50.0	ND		ND		ND	
	06/29/05	NR	50.0	ND		ND		ND	
	12/29/05	NR	50.0	ND		ND		ND	
	06/28/06	NR	50.0	ND		ND		ND	
	12/29/06	NR	50.0	ND		ND		ND	
	07/12/07	NR	10.0	ND		DRY		ND	
	12/19/07	NR	10.0	24.6	B	ND		102	
NC 2B = 50 ug/L (03/28/08)	07/08/08	NR	10.0	ND		ND		1.20	J
	12/17/08	0.4	10.0	ND		0.89	B	0.49	J
	07/09/09	0.4	10.0	ND		4.90	B	1.60	J
	12/16/09	0.4	10.0	2.60	B	2.60	B	7.70	J
	06/24/10	0.4	10.0	ND		14.9		ND	
	12/13/10	0.4	10.0	ND		9.80	B	6.70	J
	06/20/11	10	10.0	ND		ND		ND	
	12/05/11	10	10.0	ND		ND		12.4	
	06/11/12	10	10.0	ND		ND		ND	
	12/12/12	10	10.0	ND		ND		ND	
	05/01/13	10	10.0	ND		16.80		ND	
	08/05/13	10	10.0	ND		ND		ND	
	02/24/14		10.0	ND		ND		ND	
ORGANICS									
Acetone	10/27/01	NR	100	168.0	B	337.0	B	479.0	
	06/13/02	NR	100	NS		NS		NS	
	06/13/02	NR	100	NS		NS		NS	
	11/19/02	NR	100	ND		ND		NS	
	06/27/03	NR	100	ND		ND		NS	
	12/30/03	NR	100	ND		ND		ND	
	06/30/04	NR	100	ND		ND		ND	
	12/29/04	NR	100	ND		ND		ND	
	06/29/05	NR	100	ND		ND		ND	
	12/29/05	NR	100	ND		ND		ND	
	06/28/06	NR	100	ND		ND		ND	
	12/29/06	NR	100	ND		ND		ND	
	07/12/07	NR	100	ND		DRY		ND	
	12/19/07	NR	100	12.70	B	ND		4.50	J
NC 2B = 2,000 ug/L (03/28/08)	07/08/08	NR	100	ND		ND		ND	
	12/17/08	20	100	ND		ND		ND	
	07/09/09	20	100	ND		ND		ND	
NC 2B = NE (03/24/10)	12/16/09	2.2	100	ND		ND		2.80	J
	06/24/10	2.2	100	2.80	B	ND		7.70	J
	12/13/10	2.2	100	ND		3.00	J	ND	
	06/20/11	2.2	100	ND		3.80	B	3.90	J
	12/05/11	2.2	100	ND		7.20	B	8.80	J
	06/11/12	2.2	100	ND		5.50	B	4.70	J
	12/12/12	10	100	ND		ND		ND	
	05/01/13	10	100	ND		ND		14.6	J
	08/05/13	10	100	ND		ND		ND	
	02/24/14		100	ND		ND		25.7	J

TABLE 2:
HISTORICAL CONSTITUENTS IN SURFACE WATER

Analytes	Sample Collection Date	DL	QL	SW-1	SW-2	Field Blanks
Chlorobenzene	06/27/03	NR	5.0	ND	7.20	ND
	12/30/03	NR	5.0	ND	ND	ND
	06/30/04	NR	5.0	ND	ND	ND
	12/29/04	NR	5.0	ND	ND	ND
	06/29/05	NR	5.0	ND	ND	ND
	12/29/05	NR	5.0	ND	ND	ND
	06/28/06	NR	5.0	ND	ND	ND
	12/29/06	NR	3.0	ND	ND	ND
	07/12/07	NR	3.0	ND	DRY	ND
	12/19/07	NR	3.0	ND	ND	ND
NC 2B = 130 ug/L (03/28/08)	07/08/08	NR	3.0	ND	ND	ND
	12/17/08	0.23	3.0	ND	ND	ND
	07/09/09	0.23	3.0	ND	ND	ND
	12/16/09	0.23	3.0	ND	ND	ND
	06/24/10	0.23	3.0	ND	ND	ND
	12/13/10	0.23	3.0	ND	ND	0.28 J
	06/20/11	0.23	3.0	ND	ND	ND
	12/05/11	0.23	3.0	ND	ND	ND
	06/11/12	0.23	3.0	ND	ND	ND
	12/12/12	0.23	3.0	ND	ND	ND
	05/01/13	0.23	3.0	ND	ND	ND
	08/05/13	0.23	3.0	ND	ND	ND
	02/24/14		3.0	ND	ND	ND
Chloromethane	07/09/09	0.11	1.0	ND	0.19 J	ND
	12/16/09	0.11	1.0	ND	ND	ND
NC 2B = NE (03/24/10)	06/24/10	0.11	1.0	ND	ND	ND
	12/13/10	0.11	1.0	ND	ND	ND
	06/20/11	0.11	1.0	ND	ND	ND
	12/05/11	0.11	1.0	ND	ND	ND
	06/11/12	0.11	1.0	ND	ND	ND
	12/12/12	0.11	1.0	ND	ND	ND
	05/01/13	0.11	1.0	ND	ND	ND
	08/05/13	0.11	1.0	ND	ND	ND
	02/24/14		1.0	ND	ND	0.25 J

Notes:
1. RL = Laboratory reporting limit (NC SWSL from October 2007 to present).
2. ND = Not detected above laboratory reporting limit.
3. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks
4. Shaded values for surface water are above the NC 2B Surface Water Standards (NC2B)
5. DL = Laboratory detection limit.
6. J = Estimated value between the DL and the RL
7. NS = Not sampled.
8. NR = Not Reported.
9. DRY = Monitoring well or surface water point considered to be dry.
10. Surface waters are classified as WS-IV/NSW (WS, human health, and fresh-water aquatic life).

TABLE 3
Summary of Statistical Analyses

Analyte	Data Distribution	Statistical Method used to Establish Background	Background (µg/L)	GWPS (µg/L)	Point(s) Above Background	Point(s) above NC 2L or GWPS
Cobalt	74% Truncated	Non-parametric Prediction Limit	130	1	None	MW-2R

Notes:
GWPS = Groundwater Protection Standard (Soild Waste Section)
SWSL = NC Solid Waste Section Limit

TABLE 4:
HISTORICAL GROUNDWATER ELEVATION DATA

	Background	Downgradient					
Well ID:	**MW-1R**	**MW-2R**	**MW-3R**	**MW-4**	**MW-5**	**MW-6**	**NES-1**
Well TOC Elev.:	460.51	331.60	330.96	340.80	343.88	362.53	328.40
Well Depth:	56.00	18.85	35.83	31.43	23.52	32.63	32.80
21-Aug-99	418.68	329.13	328.06	330.50	330.83	352.10	NI
16-Nov-99	419.75	325.38	324.51	331.53	334.33	352.97	NI
10-May-00	424.53	329.60	328.83	334.15	334.49	355.72	NI
26-Oct-00	419.21	329.26	328.15	331.33	330.94	352.78	NI
18-Apr-01	418.76	329.42	328.63	333.57	334.36	354.22	NI
26-Oct-01	412.53	329.04	327.94	330.57	330.23	350.92	NI
13-Jun-02	413.70	328.38	327.41	330.21	330.29	351.04	NI
19-Nov-02	413.40	329.25	328.35	331.57	337.17	350.94	NI
27-Jun-03	423.61	329.57	328.93	334.24	333.99	355.21	NI
29-Dec-03	420.23	329.70	329.11	334.49	334.78	354.92	NI
30-Jun-04	418.81	329.38	328.48	332.26	331.39	353.10	NI
28-Dec-04	418.02	329.50	328.91	333.45	334.14	355.14	NI
29-Jun-05	418.81	329.10	329.26	331.62	330.90	352.76	NI
29-Dec-05	413.38	329.29	328.71	332.78	334.27	351.52	NI
27-Jun-06	414.75	329.17	328.40	332.18	333.56	353.43	NI
28-Dec-06	415.54	329.40	328.86	333.57	335.24	354.02	NI
12-Jul-07	438.64	328.69	327.97	331.31	330.52	352.30	NI
18-Dec-07	412.59	328.94	328.08	330.32	327.92	347.90	306.54
8-Jul-08	414.52	329.20	326.00	331.46	330.85	351.03	NM
17-Dec-08	412.79	329.39	328.84	333.15	335.03	350.82	NM
9-Jul-09	417.16	329.17	329.48	332.30	331.36	352.17	310.12
16-Dec-09	418.11	329.55	329.09	334.57	336.94	352.87	NM
24-Jun-10	422.42	329.41	328.77	333.65	333.15	353.62	NM
13-Dec-10	415.96	329.49	328.85	332.81	330.34	350.08	NM
20-Jun-11	416.00	328.95	328.18	336.77	331.38	351.83	NM
5-Dec-11	412.94	329.31	328.65	332.32	329.51	349.87	NM
11-Jun-12	414.56	329.10	328.35	332.52	331.33	351.75	312.50
12-Dec-12	412.83	329.19	328.36	331.67	330.35	349.48	NM
1-May-13	415.69	329.65	329.13	334.49	335.15	353.63	317.11
5-Aug-13	417.97	329.02	328.41	333.32	332.83	353.01	NM
24-Feb-14	415.81	329.68	329.17	334.48	331.63	351.78	316.15

Notes:

TOC = top of casing

Water levels are measured from TOC.

NM = water level not measured.

NI = well not yet installed.

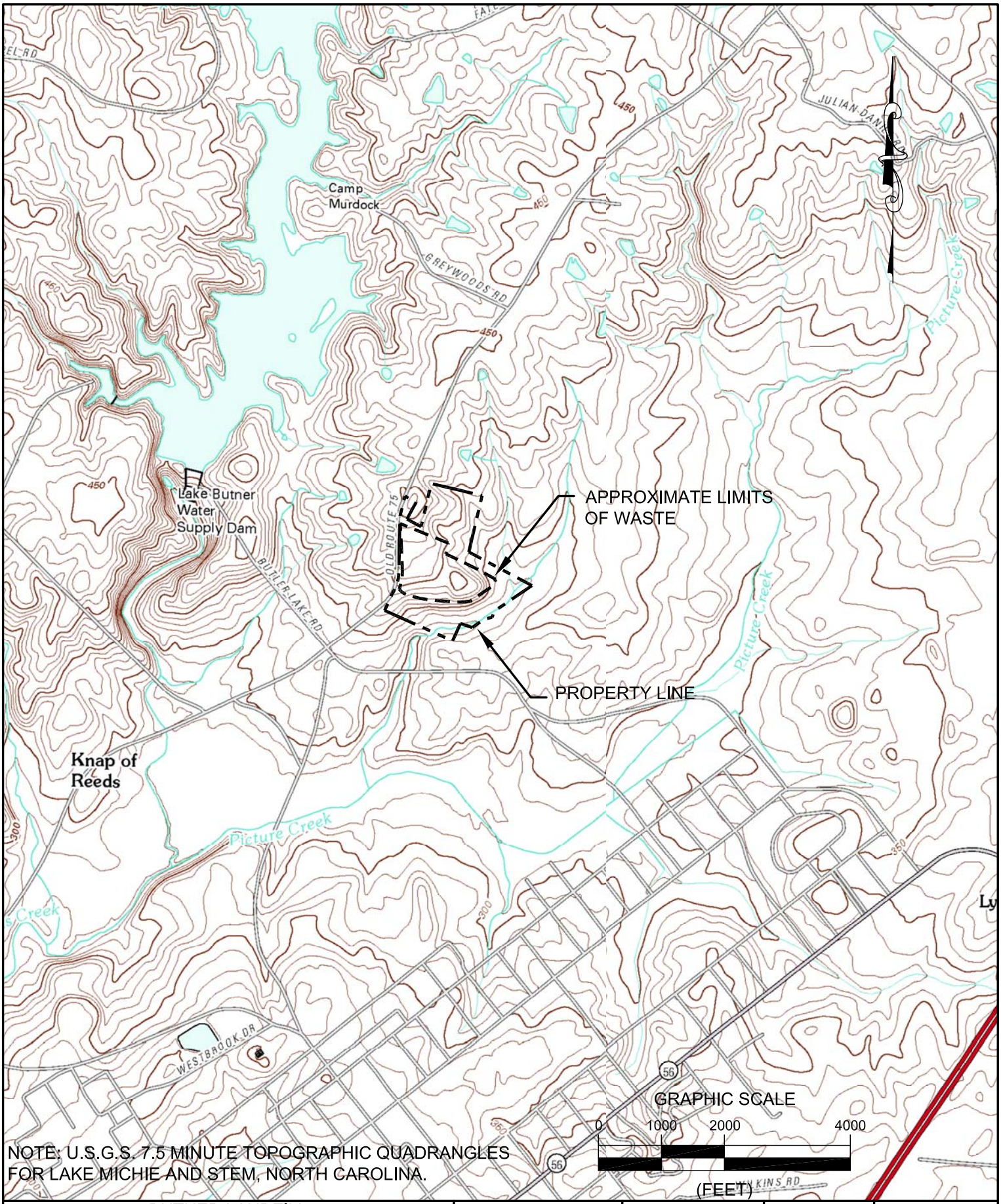
TABLE 5:
ESTIMATED HYDRAULIC GRADIENTS AND GROUNDWATER FLOW VELOCITIES

			February 24, 2014				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEVATION (feet)	HORIZ. GRADIENT, **i** (ft/ft)	HYDRAULIC CONDUCTIVITY, **K** (ft/day)	EFFECTIVE POROSITY $\mathbf{n_e}$	LINEAR VELOCITY, **V** (ft/year)
i_1	1325	ESE	410 340	0.0528	6.18E-02	0.18	6.63
i_2	1614	SE	400 320	0.0496	6.18E-02	0.18	6.22
i_3	1621	SSE	410 320	0.0555	6.18E-02	0.18	6.96
			Average	0.0526		Average	6.60

Notes:
Hydraulic conductivity (K) value is the average of results from slug-tests conducted in 1994 (GAI, 1994).
Effective Porosity based on average of 90% of reported Total Porosity (GAI, 1995) for soils, or 10% (estimated) for fractured rock.
Linear flow velocity = Ki/n (modified Darcy equation).

FIGURE

Figure 1 Site Location Map



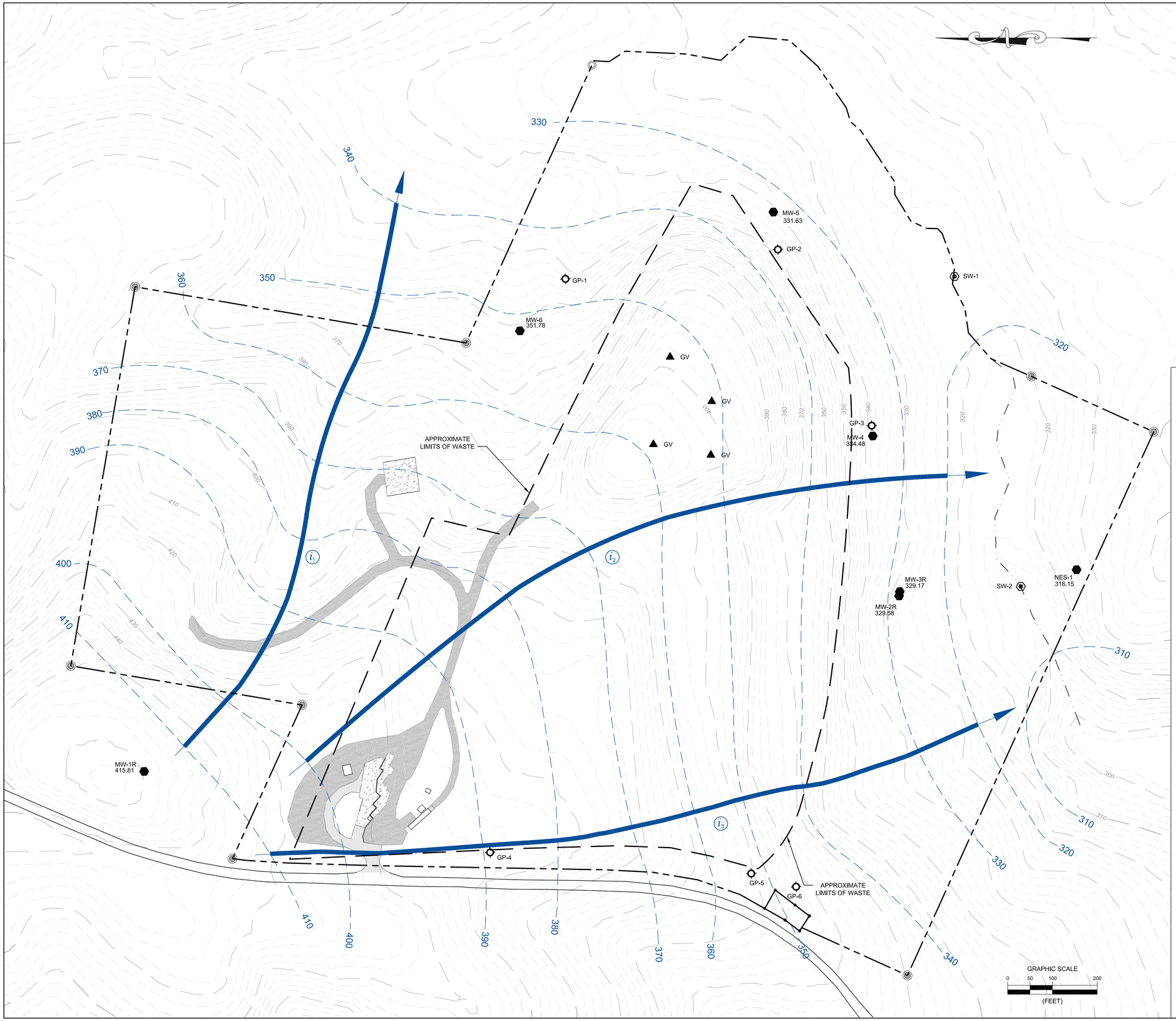
NOTE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES FOR LAKE MICHIE AND STEM, NORTH CAROLINA.

BUTNER LANDFILL GRANVILLE COUNTY, NORTH CAROLINA	JOYCE ENGINEERING 2211 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 323-0092	DESIGNED HRW DRAWN HRW CHECKED ACE APPROVED GVB DATE 04/24/14	SCALE 1" = 2000'	PROJECT NO. 660.1302.12
SITE LOCATION MAP		© 2014 Joyce Engineering, Inc. All rights reserved.	NC CORP LIC: C-0782	FIGURE NO. 1

L:\Granville\dwg\Butner\, Site Location Maps.dwg

DRAWING

Drawing 1 Potentiometric Surface Map



LEGEND

130	EXISTING 25' TOPOGRAPHIC CONTOUR
	EXISTING 5' TOPOGRAPHIC CONTOUR
	PROPERTY LINE
	APPROXIMATE LIMITS OF WASTE
380	GROUNDWATER SURFACE CONTOUR (FEET ABOVE MEAN SEA LEVEL)
	GROUNDWATER FLOW DIRECTION WITH GRADIENT CALCULATION SEGMENT
	EXISTING ROAD
	CENTERLINE OF STREAM
MW-1R 415.81	GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
i_1	SEGMENT USED FOR GRADIENT CALCULATIONS
GP-1	GAS PROBE LOCATION AND IDENTIFICATION
GV	GAS VENT
SW-1	SURFACE WATER MONITORING POINT
(NM)	NOT MEASURED

FLOW PATH LENGTH

i_1 = 1,325 LF

i_2 = 1,614 LF

i_3 = 1,621 LF

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 5 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 5 FEET
3. STATIC WATER LEVELS MEASURED ON 02/24/14.
4. GROUNDWATER CONTOURS BASED ON KNOWN DATA, TOPOGRAPHIC CONTOURS, AND LINEAR INTERPOLATION AND EXTRAPOLATION FROM KNOWN FIELD CONDITIONS.
5. ELEVATION RELATIVE TO MEAN SEA LEVEL.
6. GROUNDWATER ELEVATION IS BASED ON A WELL SURVEY PERFORMED IN APRIL 2008
7. TOPOGRAPHIC CONTOURS SHOWN IN THIS MAP ARE BASED ON 2007 DATA OBTAINED FROM NCDOT WEBSITE.
8. BOUNDARY SURVEY PROVIDED BY BATEMAN CIVIL SURVEY COMPANY DATED MARCH 15, 2013.

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED	AC
DRAWN	RWH
CHECKED	DSG
APPROVED	GVB
DATE	03/18/14

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JOYCE ENGINEERING
2211 W. MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 323-0092
NC CORP LIC: C-0782

BUTNER LANDFILL
GRANVILLE COUNTY, NORTH CAROLINA

POTENTIOMETRIC SURFACE MAP
FEBRUARY 24, 2014

PROJECT NO.
660.1302.12

SCALE
AS NOTED

DRAWING NO.
1

L:\Granville\dwg\Butner\GW Event Maps\GW Event 02-14.dwg Layout=Layout1

APPENDICES

Appendix A	Laboratory Analytical Reports and Field Data Logs
Appendix B	Statistical Analysis Worksheets

Appendix A

Laboratory Analytical Reports and Field Data Logs

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 11, 2014

Mr. Van Burbach
Joyce Engineering-NC
2211 West Meadowview Rd
Boone Bldg, Suite 101
Greensboro, NC 27407

RE: Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Dear Mr. Burbach:
Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92191419001	**3902-MW1R**	Water	02/24/14 09:15	02/27/14 15:05
92191419002	**3902-MW2R**	Water	02/24/14 13:30	02/27/14 15:05
92191419003	**3902-MW3R**	Water	02/24/14 13:20	02/27/14 15:05
92191419004	**3902-MW4**	Water	02/24/14 12:30	02/27/14 15:05
92191419005	**3902-MW5**	Water	02/24/14 11:25	02/27/14 15:05
92191419006	**3902-MW6**	Water	02/24/14 10:30	02/27/14 15:05
92191419007	**3902-NES-1**	Water	02/24/14 14:20	02/27/14 15:05

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SAMPLE ANALYTE COUNT

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92191419001	**3902-MW1R**	EPA 8081	NU1	21	PASI-C
		EPA 8082	EJK	8	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	112	PASI-C
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92191419002	**3902-MW2R**	EPA 8081	NU1	21	PASI-C
		EPA 8082	EJK	8	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	112	PASI-C
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92191419003	**3902-MW3R**	EPA 8081	NU1	21	PASI-C
		EPA 8082	EJK	8	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	112	PASI-C
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92191419004	**3902-MW4**	EPA 8081	NU1	21	PASI-C
		EPA 8082	EJK	8	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	112	PASI-C
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92191419005	**3902-MW5**	EPA 8081	NU1	21	PASI-C

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SAMPLE ANALYTE COUNT

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8082	EJK	8	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	112	PASI-C
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92191419006	**3902-MW6**	EPA 8081	NU1	21	PASI-C
		EPA 8082	EJK	8	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8270	BPJ	112	PASI-C
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92191419007	**3902-NES-1**	EPA 8260	MCK	66	PASI-C

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SUMMARY OF DETECTION

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92191419001	**3902-MW1R**					
EPA 6010	Antimony	8.8	ug/L	6.0	03/04/14 23:53	
EPA 8270	bis(2-Ethylhexyl)phthalate	2.6J	ug/L	15.0	03/04/14 16:46	
EPA 8260	Methylene Chloride	1.0	ug/L	1.0	03/07/14 23:31	
92191419002	**3902-MW2R**					
EPA 8081	beta-BHC	0.052	ug/L	0.050	03/08/14 18:48	
EPA 6010	Arsenic	6.4J	ug/L	10.0	03/04/14 23:57	
EPA 6010	Barium	93.8J	ug/L	100	03/04/14 23:57	
EPA 6010	Cobalt	18.4	ug/L	10.0	03/04/14 23:57	
EPA 6010	Nickel	83.1	ug/L	50.0	03/04/14 23:57	
EPA 6010	Tin	26.7J	ug/L	100	03/04/14 23:57	
EPA 8260	Benzene	1.4	ug/L	1.0	03/03/14 01:12	
EPA 8260	Chlorobenzene	16.3	ug/L	3.0	03/03/14 01:12	
EPA 8260	Chloroethane	1.1J	ug/L	10.0	03/03/14 01:12	
EPA 8260	1,2-Dichlorobenzene	1.4J	ug/L	5.0	03/03/14 01:12	
EPA 8260	1,4-Dichlorobenzene	2.2	ug/L	1.0	03/03/14 01:12	
EPA 8260	Naphthalene	5.8J	ug/L	10.0	03/03/14 01:12	
92191419003	**3902-MW3R**					
EPA 6010	Barium	44.8J	ug/L	100	03/05/14 00:01	
EPA 6010	Copper	12.2	ug/L	10.0	03/05/14 00:01	
EPA 6010	Nickel	16.7J	ug/L	50.0	03/05/14 00:01	
EPA 6010	Tin	11.7J	ug/L	100	03/05/14 00:01	
EPA 8260	Chlorobenzene	2.5J	ug/L	3.0	03/03/14 01:28	
EPA 8260	Chloroethane	0.82J	ug/L	10.0	03/03/14 01:28	
EPA 8260	1,2-Dichlorobenzene	0.64J	ug/L	5.0	03/03/14 01:28	
EPA 8260	1,4-Dichlorobenzene	1.8	ug/L	1.0	03/03/14 01:28	
92191419004	**3902-MW4**					
EPA 6010	Nickel	10.4J	ug/L	50.0	03/05/14 00:05	
EPA 6010	Tin	9.8J	ug/L	100	03/05/14 00:05	
EPA 6010	Vanadium	12.9J	ug/L	25.0	03/05/14 00:05	
EPA 8270	N-Nitroso-di-n-butylamine	8.6J	ug/L	10.0	03/04/14 18:37	
EPA 8260	Chlorobenzene	1.4J	ug/L	3.0	03/03/14 04:20	
EPA 8260	1,1-Dichloroethane	0.50J	ug/L	5.0	03/03/14 04:20	
92191419005	**3902-MW5**					
EPA 6010	Barium	139	ug/L	100	03/05/14 00:09	
EPA 6010	Cobalt	9.6J	ug/L	10.0	03/05/14 00:09	
EPA 6010	Copper	5.1J	ug/L	10.0	03/05/14 00:09	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW1R **Lab ID: 92191419001** Collected: 02/24/14 09:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:55	309-00-2	
alpha-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:55	319-84-6	
beta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:55	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:55	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:55	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	0.20	1	02/28/14 11:20	03/08/14 17:55	57-74-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	72-54-8	
4,4'-DDE	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	72-55-9	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	50-29-3	
Dieldrin	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 17:55	60-57-1	
Endosulfan I	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	959-98-8	
Endosulfan II	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	1031-07-8	
Endrin	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:55	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:55	76-44-8	
Heptachlor epoxide	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 17:55	1024-57-3	
Methoxychlor	ND	ug/L	1.0	0.15	1	02/28/14 11:20	03/08/14 17:55	72-43-5	
Toxaphene	ND	ug/L	1.5	0.20	1	02/28/14 11:20	03/08/14 17:55	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	53	%	20-130		1	02/28/14 11:20	03/08/14 17:55	877-09-8	
Decachlorobiphenyl (S)	70	%	20-130		1	02/28/14 11:20	03/08/14 17:55	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 19:50	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	78	%	10-132		1	02/28/14 11:20	03/03/14 19:50	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.23	1	03/03/14 15:30	03/07/14 03:04	94-75-7	
Dinoseb	ND	ug/L	1.0	0.059	1	03/03/14 15:30	03/07/14 03:04	88-85-7	
2,4,5-T	ND	ug/L	2.1	0.043	1	03/03/14 15:30	03/07/14 03:04	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.1	0.051	1	03/03/14 15:30	03/07/14 03:04	93-72-1	
Surrogates									
2,4-DCAA (S)	98	%	42-142		1	03/03/14 15:30	03/07/14 03:04	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	**8.8**	ug/L	6.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-39-3	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW1R **Lab ID: 92191419001** Collected: 02/24/14 09:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:53	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:53	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:53	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/04/14 23:53	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/04/14 23:53	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:53	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:08	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	02/28/14 09:00	03/04/14 16:46	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 16:46	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 16:46	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	02/28/14 09:00	03/04/14 16:46	53-96-3	
4-Aminobiphenyl	ND	ug/L	20.0	5.2	1	02/28/14 09:00	03/04/14 16:46	92-67-1	
Anthracene	ND	ug/L	10.0	0.14	1	02/28/14 09:00	03/04/14 16:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	02/28/14 09:00	03/04/14 16:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	02/28/14 09:00	03/04/14 16:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 16:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	02/28/14 09:00	03/04/14 16:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	02/28/14 09:00	03/04/14 16:46	207-08-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	02/28/14 09:00	03/04/14 16:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	02/28/14 09:00	03/04/14 16:46	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	02/28/14 09:00	03/04/14 16:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 16:46	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	02/28/14 09:00	03/04/14 16:46	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	02/28/14 09:00	03/04/14 16:46	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 16:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 16:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	02/28/14 09:00	03/04/14 16:46	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 16:46	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 16:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	02/28/14 09:00	03/04/14 16:46	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 16:46	218-01-9	
Diallate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 16:46	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	02/28/14 09:00	03/04/14 16:46	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 16:46	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 16:46	91-94-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW1R **Lab ID: 92191419001** Collected: 02/24/14 09:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	02/28/14 09:00	03/04/14 16:46	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 16:46	87-65-0	
Diethylphthalate	ND	ug/L	6000	0.58	1	02/28/14 09:00	03/04/14 16:46	84-66-2	
Dimethoate	ND	ug/L	20.0	4.9	1	02/28/14 09:00	03/04/14 16:46	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	2.7	1	02/28/14 09:00	03/04/14 16:46	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 16:46	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	02/28/14 09:00	03/04/14 16:46	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 16:46	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	02/28/14 09:00	03/04/14 16:46	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	02/28/14 09:00	03/04/14 16:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2.6	1	02/28/14 09:00	03/04/14 16:46	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	02/28/14 09:00	03/04/14 16:46	99-65-0	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	02/28/14 09:00	03/04/14 16:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	02/28/14 09:00	03/04/14 16:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 16:46	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	02/28/14 09:00	03/04/14 16:46	117-84-0	
Diphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 16:46	122-39-4	
Disulfoton	ND	ug/L	10.0	5.5	1	02/28/14 09:00	03/04/14 16:46	298-04-4	
bis(2-Ethylhexyl)phthalate	**2.6J**	ug/L	15.0	0.79	1	02/28/14 09:00	03/04/14 16:46	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 16:46	62-50-0	
Famphur	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 16:46	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 16:46	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 16:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	02/28/14 09:00	03/04/14 16:46	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	02/28/14 09:00	03/04/14 16:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	02/28/14 09:00	03/04/14 16:46	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 16:46	67-72-1	
Hexachloropropene	ND	ug/L	10.0	3.2	1	02/28/14 09:00	03/04/14 16:46	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	02/28/14 09:00	03/04/14 16:46	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 16:46	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 16:46	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	02/28/14 09:00	03/04/14 16:46	120-58-1	
Kepone	ND	ug/L	20.0	8.3	1	02/28/14 09:00	03/04/14 16:46	143-50-0	
Methapyrilene	ND	ug/L	100	5.8	1	02/28/14 09:00	03/04/14 16:46	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	02/28/14 09:00	03/04/14 16:46	56-49-5	
Methyl methanesulfonate	ND	ug/L	10.0	3.7	1	02/28/14 09:00	03/04/14 16:46	66-27-3	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 16:46	91-57-6	
Methyl parathion	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 16:46	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	02/28/14 09:00	03/04/14 16:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	02/28/14 09:00	03/04/14 16:46		
1-Naphthalenamine	ND	ug/L	10.0	4.1	1	02/28/14 09:00	03/04/14 16:46	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	3.0	1	02/28/14 09:00	03/04/14 16:46	91-59-8	
1,4-Naphthoquinone	ND	ug/L	10.0	3.3	1	02/28/14 09:00	03/04/14 16:46	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 16:46	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 16:46	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 16:46	100-01-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW1R **Lab ID: 92191419001** Collected: 02/24/14 09:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Nitrobenzene	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 16:46	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 16:46	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	02/28/14 09:00	03/04/14 16:46	100-02-7	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 16:46	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 16:46	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 16:46	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	02/28/14 09:00	03/04/14 16:46	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 16:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 16:46	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	02/28/14 09:00	03/04/14 16:46	10595-95-6	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 16:46	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	02/28/14 09:00	03/04/14 16:46	930-55-2	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 16:46	126-68-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 16:46	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	02/28/14 09:00	03/04/14 16:46	608-93-5	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 16:46	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	02/28/14 09:00	03/04/14 16:46	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 16:46	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	02/28/14 09:00	03/04/14 16:46	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	02/28/14 09:00	03/04/14 16:46	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	02/28/14 09:00	03/04/14 16:46	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 16:46	298-02-2	
Pronamide	ND	ug/L	10.0	5.8	1	02/28/14 09:00	03/04/14 16:46	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	02/28/14 09:00	03/04/14 16:46	129-00-0	
Safrole	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 16:46	94-59-7	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	02/28/14 09:00	03/04/14 16:46	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 16:46	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 16:46	297-97-2	
O-Toluidine	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 16:46	95-53-4	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 16:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 16:46	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 16:46	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	42	%	21-110		1	02/28/14 09:00	03/04/14 16:46	4165-60-0	
2-Fluorobiphenyl (S)	41	%	27-110		1	02/28/14 09:00	03/04/14 16:46	321-60-8	
Terphenyl-d14 (S)	62	%	31-107		1	02/28/14 09:00	03/04/14 16:46	1718-51-0	
Phenol-d6 (S)	15	%	10-110		1	02/28/14 09:00	03/04/14 16:46	13127-88-3	
2-Fluorophenol (S)	22	%	12-110		1	02/28/14 09:00	03/04/14 16:46	367-12-4	
2,4,6-Tribromophenol (S)	76	%	27-110		1	02/28/14 09:00	03/04/14 16:46	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/07/14 23:31	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/07/14 23:31	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/07/14 23:31	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/07/14 23:31	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/07/14 23:31	107-05-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW1R **Lab ID: 92191419001** Collected: 02/24/14 09:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		03/07/14 23:31	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/07/14 23:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/07/14 23:31	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/07/14 23:31	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/07/14 23:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/07/14 23:31	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/07/14 23:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/07/14 23:31	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/07/14 23:31	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/07/14 23:31	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/07/14 23:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/07/14 23:31	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/07/14 23:31	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/07/14 23:31	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/07/14 23:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/07/14 23:31	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/07/14 23:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/07/14 23:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/07/14 23:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/07/14 23:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/07/14 23:31	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/07/14 23:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/07/14 23:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/07/14 23:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/07/14 23:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/07/14 23:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/07/14 23:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/07/14 23:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/07/14 23:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/07/14 23:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/07/14 23:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/07/14 23:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/07/14 23:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/07/14 23:31	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/07/14 23:31	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/07/14 23:31	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/07/14 23:31	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/07/14 23:31	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/07/14 23:31	126-98-7	
Methylene Chloride	**1.0**	ug/L	1.0	0.97	1		03/07/14 23:31	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/07/14 23:31	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/07/14 23:31	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/07/14 23:31	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/07/14 23:31	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/07/14 23:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/07/14 23:31	630-20-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW1R **Lab ID: 92191419001** Collected: 02/24/14 09:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/07/14 23:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/07/14 23:31	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/07/14 23:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/07/14 23:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/07/14 23:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/07/14 23:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/07/14 23:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/07/14 23:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/07/14 23:31	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/07/14 23:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/07/14 23:31	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/07/14 23:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/07/14 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		03/07/14 23:31	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/07/14 23:31	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/10/14 13:22	57-12-5	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW2R **Lab ID: 92191419002** Collected: 02/24/14 13:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 18:48	309-00-2	
alpha-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 18:48	319-84-6	
beta-BHC	**0.052**	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 18:48	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 18:48	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 18:48	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	0.20	1	02/28/14 11:20	03/08/14 18:48	57-74-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	72-54-8	
4,4'-DDE	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	72-55-9	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	50-29-3	
Dieldrin	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 18:48	60-57-1	
Endosulfan I	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	959-98-8	
Endosulfan II	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	1031-07-8	
Endrin	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 18:48	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 18:48	76-44-8	
Heptachlor epoxide	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 18:48	1024-57-3	
Methoxychlor	ND	ug/L	1.0	0.15	1	02/28/14 11:20	03/08/14 18:48	72-43-5	
Toxaphene	ND	ug/L	1.5	0.20	1	02/28/14 11:20	03/08/14 18:48	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	40	%	20-130		1	02/28/14 11:20	03/08/14 18:48	877-09-8	
Decachlorobiphenyl (S)	64	%	20-130		1	02/28/14 11:20	03/08/14 18:48	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:11	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	56	%	10-132		1	02/28/14 11:20	03/03/14 20:11	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.23	1	03/03/14 15:30	03/04/14 22:36	94-75-7	
Dinoseb	ND	ug/L	1.0	0.059	1	03/03/14 15:30	03/04/14 22:36	88-85-7	
2,4,5-T	ND	ug/L	2.1	0.044	1	03/03/14 15:30	03/04/14 22:36	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.1	0.051	1	03/03/14 15:30	03/04/14 22:36	93-72-1	
Surrogates									
2,4-DCAA (S)	96	%	42-142		1	03/03/14 15:30	03/04/14 22:36	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-36-0	
Arsenic	**6.4J**	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-38-2	
Barium	**93.8J**	ug/L	100	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-39-3	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW2R **Lab ID: 92191419002** Collected: 02/24/14 13:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:57	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:57	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-47-3	
Cobalt	**18.4**	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7439-92-1	
Nickel	**83.1**	ug/L	50.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:57	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/04/14 23:57	7440-28-0	
Tin	**26.7J**	ug/L	100	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/04/14 23:57	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:11	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	02/28/14 09:00	03/04/14 17:23	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 17:23	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 17:23	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	02/28/14 09:00	03/04/14 17:23	53-96-3	
4-Aminobiphenyl	ND	ug/L	20.0	5.2	1	02/28/14 09:00	03/04/14 17:23	92-67-1	
Anthracene	ND	ug/L	10.0	0.14	1	02/28/14 09:00	03/04/14 17:23	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	02/28/14 09:00	03/04/14 17:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	02/28/14 09:00	03/04/14 17:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 17:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	02/28/14 09:00	03/04/14 17:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	02/28/14 09:00	03/04/14 17:23	207-08-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	02/28/14 09:00	03/04/14 17:23	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	02/28/14 09:00	03/04/14 17:23	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	02/28/14 09:00	03/04/14 17:23	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 17:23	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	02/28/14 09:00	03/04/14 17:23	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	02/28/14 09:00	03/04/14 17:23	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 17:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 17:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	02/28/14 09:00	03/04/14 17:23	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 17:23	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 17:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	02/28/14 09:00	03/04/14 17:23	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 17:23	218-01-9	
Diallate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 17:23	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	02/28/14 09:00	03/04/14 17:23	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 17:23	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 17:23	91-94-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW2R **Lab ID: 92191419002** Collected: 02/24/14 13:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	02/28/14 09:00	03/04/14 17:23	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 17:23	87-65-0	
Diethylphthalate	ND	ug/L	6000	0.58	1	02/28/14 09:00	03/04/14 17:23	84-66-2	
Dimethoate	ND	ug/L	20.0	4.9	1	02/28/14 09:00	03/04/14 17:23	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	2.7	1	02/28/14 09:00	03/04/14 17:23	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 17:23	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	02/28/14 09:00	03/04/14 17:23	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 17:23	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	02/28/14 09:00	03/04/14 17:23	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	02/28/14 09:00	03/04/14 17:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2.6	1	02/28/14 09:00	03/04/14 17:23	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	02/28/14 09:00	03/04/14 17:23	99-65-0	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	02/28/14 09:00	03/04/14 17:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	02/28/14 09:00	03/04/14 17:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 17:23	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	02/28/14 09:00	03/04/14 17:23	117-84-0	
Diphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 17:23	122-39-4	
Disulfoton	ND	ug/L	10.0	5.5	1	02/28/14 09:00	03/04/14 17:23	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/28/14 09:00	03/04/14 17:23	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 17:23	62-50-0	
Famphur	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 17:23	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 17:23	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 17:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	02/28/14 09:00	03/04/14 17:23	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	02/28/14 09:00	03/04/14 17:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	02/28/14 09:00	03/04/14 17:23	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 17:23	67-72-1	
Hexachloropropene	ND	ug/L	10.0	3.2	1	02/28/14 09:00	03/04/14 17:23	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	02/28/14 09:00	03/04/14 17:23	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 17:23	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 17:23	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	02/28/14 09:00	03/04/14 17:23	120-58-1	
Kepone	ND	ug/L	20.0	8.3	1	02/28/14 09:00	03/04/14 17:23	143-50-0	
Methapyrilene	ND	ug/L	100	5.8	1	02/28/14 09:00	03/04/14 17:23	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	02/28/14 09:00	03/04/14 17:23	56-49-5	
Methyl methanesulfonate	ND	ug/L	10.0	3.7	1	02/28/14 09:00	03/04/14 17:23	66-27-3	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 17:23	91-57-6	
Methyl parathion	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 17:23	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	02/28/14 09:00	03/04/14 17:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	02/28/14 09:00	03/04/14 17:23		
1-Naphthalenamine	ND	ug/L	10.0	4.1	1	02/28/14 09:00	03/04/14 17:23	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	3.0	1	02/28/14 09:00	03/04/14 17:23	91-59-8	
1,4-Naphthoquinone	ND	ug/L	10.0	3.3	1	02/28/14 09:00	03/04/14 17:23	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 17:23	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 17:23	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 17:23	100-01-6	

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(704)875-9092

ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW2R **Lab ID: 92191419002** Collected: 02/24/14 13:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Nitrobenzene	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 17:23	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 17:23	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	02/28/14 09:00	03/04/14 17:23	100-02-7	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 17:23	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 17:23	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 17:23	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	02/28/14 09:00	03/04/14 17:23	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 17:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 17:23	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	02/28/14 09:00	03/04/14 17:23	10595-95-6	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 17:23	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	02/28/14 09:00	03/04/14 17:23	930-55-2	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 17:23	126-68-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 17:23	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	02/28/14 09:00	03/04/14 17:23	608-93-5	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 17:23	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	02/28/14 09:00	03/04/14 17:23	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 17:23	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	02/28/14 09:00	03/04/14 17:23	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	02/28/14 09:00	03/04/14 17:23	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	02/28/14 09:00	03/04/14 17:23	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 17:23	298-02-2	
Pronamide	ND	ug/L	10.0	5.8	1	02/28/14 09:00	03/04/14 17:23	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	02/28/14 09:00	03/04/14 17:23	129-00-0	
Safrole	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 17:23	94-59-7	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	02/28/14 09:00	03/04/14 17:23	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 17:23	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 17:23	297-97-2	
O-Toluidine	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 17:23	95-53-4	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 17:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 17:23	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 17:23	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	65	%	21-110		1	02/28/14 09:00	03/04/14 17:23	4165-60-0	
2-Fluorobiphenyl (S)	68	%	27-110		1	02/28/14 09:00	03/04/14 17:23	321-60-8	
Terphenyl-d14 (S)	73	%	31-107		1	02/28/14 09:00	03/04/14 17:23	1718-51-0	
Phenol-d6 (S)	30	%	10-110		1	02/28/14 09:00	03/04/14 17:23	13127-88-3	
2-Fluorophenol (S)	38	%	12-110		1	02/28/14 09:00	03/04/14 17:23	367-12-4	
2,4,6-Tribromophenol (S)	120	%	27-110		1	02/28/14 09:00	03/04/14 17:23	118-79-6	S0
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/03/14 01:12	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/03/14 01:12	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/03/14 01:12	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/03/14 01:12	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/03/14 01:12	107-05-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW2R **Lab ID: 92191419002** Collected: 02/24/14 13:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Benzene	**1.4**	ug/L	1.0	0.25	1		03/03/14 01:12	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/03/14 01:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/03/14 01:12	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/03/14 01:12	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/03/14 01:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/03/14 01:12	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/03/14 01:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/03/14 01:12	56-23-5	
Chlorobenzene	**16.3**	ug/L	3.0	0.23	1		03/03/14 01:12	108-90-7	
Chloroethane	**1.1J**	ug/L	10.0	0.54	1		03/03/14 01:12	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/03/14 01:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/03/14 01:12	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/03/14 01:12	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/03/14 01:12	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/03/14 01:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/03/14 01:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/03/14 01:12	74-95-3	
1,2-Dichlorobenzene	**1.4J**	ug/L	5.0	0.30	1		03/03/14 01:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/03/14 01:12	541-73-1	
1,4-Dichlorobenzene	**2.2**	ug/L	1.0	0.33	1		03/03/14 01:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/03/14 01:12	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/03/14 01:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/03/14 01:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/03/14 01:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/03/14 01:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/03/14 01:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/03/14 01:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/03/14 01:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/03/14 01:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/03/14 01:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/03/14 01:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/03/14 01:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/03/14 01:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/03/14 01:12	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/03/14 01:12	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/03/14 01:12	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/03/14 01:12	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/03/14 01:12	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/03/14 01:12	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/03/14 01:12	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/03/14 01:12	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/03/14 01:12	108-10-1	
Naphthalene	**5.8J**	ug/L	10.0	0.24	1		03/03/14 01:12	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/03/14 01:12	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/03/14 01:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/03/14 01:12	630-20-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW2R **Lab ID: 92191419002** Collected: 02/24/14 13:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/03/14 01:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/03/14 01:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/03/14 01:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/03/14 01:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/03/14 01:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/03/14 01:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/03/14 01:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/03/14 01:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/03/14 01:12	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/03/14 01:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/03/14 01:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/03/14 01:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/03/14 01:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/03/14 01:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/03/14 01:12	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/10/14 13:23	57-12-5	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW3R **Lab ID: 92191419003** Collected: 02/24/14 13:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:05	309-00-2	
alpha-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:05	319-84-6	
beta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:05	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:05	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:05	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	0.20	1	02/28/14 11:20	03/08/14 19:05	57-74-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	72-54-8	
4,4'-DDE	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	72-55-9	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	50-29-3	
Dieldrin	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:05	60-57-1	
Endosulfan I	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	959-98-8	
Endosulfan II	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	1031-07-8	
Endrin	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:05	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:05	76-44-8	
Heptachlor epoxide	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:05	1024-57-3	
Methoxychlor	ND	ug/L	1.0	0.15	1	02/28/14 11:20	03/08/14 19:05	72-43-5	
Toxaphene	ND	ug/L	1.5	0.20	1	02/28/14 11:20	03/08/14 19:05	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	57	%	20-130		1	02/28/14 11:20	03/08/14 19:05	877-09-8	
Decachlorobiphenyl (S)	60	%	20-130		1	02/28/14 11:20	03/08/14 19:05	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:32	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	73	%	10-132		1	02/28/14 11:20	03/03/14 20:32	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.24	1	03/03/14 15:30	03/04/14 23:06	94-75-7	
Dinoseb	ND	ug/L	1.1	0.060	1	03/03/14 15:30	03/04/14 23:06	88-85-7	
2,4,5-T	ND	ug/L	2.1	0.044	1	03/03/14 15:30	03/04/14 23:06	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.1	0.052	1	03/03/14 15:30	03/04/14 23:06	93-72-1	
Surrogates									
2,4-DCAA (S)	97	%	42-142		1	03/03/14 15:30	03/04/14 23:06	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-38-2	
Barium	**44.8J**	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-39-3	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW3R **Lab ID: 92191419003** Collected: 02/24/14 13:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:01	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-48-4	
Copper	**12.2**	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7439-92-1	
Nickel	**16.7J**	ug/L	50.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:01	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/05/14 00:01	7440-28-0	
Tin	**11.7J**	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/05/14 00:01	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:01	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:13	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	02/28/14 09:00	03/04/14 18:00	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:00	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 18:00	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	02/28/14 09:00	03/04/14 18:00	53-96-3	
4-Aminobiphenyl	ND	ug/L	20.0	5.2	1	02/28/14 09:00	03/04/14 18:00	92-67-1	
Anthracene	ND	ug/L	10.0	0.14	1	02/28/14 09:00	03/04/14 18:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	02/28/14 09:00	03/04/14 18:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	02/28/14 09:00	03/04/14 18:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 18:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	02/28/14 09:00	03/04/14 18:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	02/28/14 09:00	03/04/14 18:00	207-08-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	02/28/14 09:00	03/04/14 18:00	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	02/28/14 09:00	03/04/14 18:00	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	02/28/14 09:00	03/04/14 18:00	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 18:00	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	02/28/14 09:00	03/04/14 18:00	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	02/28/14 09:00	03/04/14 18:00	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 18:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 18:00	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	02/28/14 09:00	03/04/14 18:00	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 18:00	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 18:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	02/28/14 09:00	03/04/14 18:00	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:00	218-01-9	
Diallate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 18:00	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	02/28/14 09:00	03/04/14 18:00	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 18:00	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 18:00	91-94-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW3R **Lab ID: 92191419003** Collected: 02/24/14 13:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	02/28/14 09:00	03/04/14 18:00	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 18:00	87-65-0	
Diethylphthalate	ND	ug/L	6000	0.58	1	02/28/14 09:00	03/04/14 18:00	84-66-2	
Dimethoate	ND	ug/L	20.0	4.9	1	02/28/14 09:00	03/04/14 18:00	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	2.7	1	02/28/14 09:00	03/04/14 18:00	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 18:00	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	02/28/14 09:00	03/04/14 18:00	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 18:00	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	02/28/14 09:00	03/04/14 18:00	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	02/28/14 09:00	03/04/14 18:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2.6	1	02/28/14 09:00	03/04/14 18:00	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	02/28/14 09:00	03/04/14 18:00	99-65-0	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	02/28/14 09:00	03/04/14 18:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	02/28/14 09:00	03/04/14 18:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 18:00	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	02/28/14 09:00	03/04/14 18:00	117-84-0	
Diphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 18:00	122-39-4	
Disulfoton	ND	ug/L	10.0	5.5	1	02/28/14 09:00	03/04/14 18:00	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/28/14 09:00	03/04/14 18:00	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 18:00	62-50-0	
Famphur	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 18:00	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:00	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	02/28/14 09:00	03/04/14 18:00	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	02/28/14 09:00	03/04/14 18:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	02/28/14 09:00	03/04/14 18:00	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 18:00	67-72-1	
Hexachloropropene	ND	ug/L	10.0	3.2	1	02/28/14 09:00	03/04/14 18:00	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	02/28/14 09:00	03/04/14 18:00	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 18:00	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 18:00	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	02/28/14 09:00	03/04/14 18:00	120-58-1	
Kepone	ND	ug/L	20.0	8.3	1	02/28/14 09:00	03/04/14 18:00	143-50-0	
Methapyrilene	ND	ug/L	100	5.8	1	02/28/14 09:00	03/04/14 18:00	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	02/28/14 09:00	03/04/14 18:00	56-49-5	
Methyl methanesulfonate	ND	ug/L	10.0	3.7	1	02/28/14 09:00	03/04/14 18:00	66-27-3	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 18:00	91-57-6	
Methyl parathion	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 18:00	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	02/28/14 09:00	03/04/14 18:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	02/28/14 09:00	03/04/14 18:00		
1-Naphthalenamine	ND	ug/L	10.0	4.1	1	02/28/14 09:00	03/04/14 18:00	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	3.0	1	02/28/14 09:00	03/04/14 18:00	91-59-8	
1,4-Naphthoquinone	ND	ug/L	10.0	3.3	1	02/28/14 09:00	03/04/14 18:00	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 18:00	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 18:00	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 18:00	100-01-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW3R **Lab ID: 92191419003** Collected: 02/24/14 13:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Nitrobenzene	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 18:00	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 18:00	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	02/28/14 09:00	03/04/14 18:00	100-02-7	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 18:00	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 18:00	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 18:00	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	02/28/14 09:00	03/04/14 18:00	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 18:00	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 18:00	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	02/28/14 09:00	03/04/14 18:00	10595-95-6	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 18:00	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	02/28/14 09:00	03/04/14 18:00	930-55-2	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 18:00	126-68-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 18:00	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	02/28/14 09:00	03/04/14 18:00	608-93-5	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 18:00	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	02/28/14 09:00	03/04/14 18:00	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 18:00	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	02/28/14 09:00	03/04/14 18:00	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	02/28/14 09:00	03/04/14 18:00	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	02/28/14 09:00	03/04/14 18:00	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 18:00	298-02-2	
Pronamide	ND	ug/L	10.0	5.8	1	02/28/14 09:00	03/04/14 18:00	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	02/28/14 09:00	03/04/14 18:00	129-00-0	
Safrole	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 18:00	94-59-7	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	02/28/14 09:00	03/04/14 18:00	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 18:00	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 18:00	297-97-2	
O-Toluidine	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 18:00	95-53-4	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 18:00	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 18:00	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 18:00	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	54	%	21-110		1	02/28/14 09:00	03/04/14 18:00	4165-60-0	
2-Fluorobiphenyl (S)	55	%	27-110		1	02/28/14 09:00	03/04/14 18:00	321-60-8	
Terphenyl-d14 (S)	64	%	31-107		1	02/28/14 09:00	03/04/14 18:00	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	02/28/14 09:00	03/04/14 18:00	13127-88-3	
2-Fluorophenol (S)	28	%	12-110		1	02/28/14 09:00	03/04/14 18:00	367-12-4	
2,4,6-Tribromophenol (S)	93	%	27-110		1	02/28/14 09:00	03/04/14 18:00	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/03/14 01:28	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/03/14 01:28	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/03/14 01:28	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/03/14 01:28	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/03/14 01:28	107-05-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW3R **Lab ID: 92191419003** Collected: 02/24/14 13:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		03/03/14 01:28	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/03/14 01:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/03/14 01:28	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/03/14 01:28	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/03/14 01:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/03/14 01:28	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/03/14 01:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/03/14 01:28	56-23-5	
Chlorobenzene	**2.5J**	ug/L	3.0	0.23	1		03/03/14 01:28	108-90-7	
Chloroethane	**0.82J**	ug/L	10.0	0.54	1		03/03/14 01:28	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/03/14 01:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/03/14 01:28	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/03/14 01:28	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/03/14 01:28	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/03/14 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/03/14 01:28	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/03/14 01:28	74-95-3	
1,2-Dichlorobenzene	**0.64J**	ug/L	5.0	0.30	1		03/03/14 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/03/14 01:28	541-73-1	
1,4-Dichlorobenzene	**1.8**	ug/L	1.0	0.33	1		03/03/14 01:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/03/14 01:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/03/14 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/03/14 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/03/14 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/03/14 01:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/03/14 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/03/14 01:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/03/14 01:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/03/14 01:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/03/14 01:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/03/14 01:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/03/14 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/03/14 01:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/03/14 01:28	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/03/14 01:28	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/03/14 01:28	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/03/14 01:28	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/03/14 01:28	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/03/14 01:28	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/03/14 01:28	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/03/14 01:28	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/03/14 01:28	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/03/14 01:28	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/03/14 01:28	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/03/14 01:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/03/14 01:28	630-20-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW3R **Lab ID: 92191419003** Collected: 02/24/14 13:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/03/14 01:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/03/14 01:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/03/14 01:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/03/14 01:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/03/14 01:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/03/14 01:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/03/14 01:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/03/14 01:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/03/14 01:28	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/03/14 01:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/03/14 01:28	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/03/14 01:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/03/14 01:28	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/03/14 01:28	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/03/14 01:28	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/10/14 13:24	57-12-5	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW4 **Lab ID: 92191419004** Collected: 02/24/14 12:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:23	309-00-2	
alpha-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:23	319-84-6	
beta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:23	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:23	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:23	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	0.20	1	02/28/14 11:20	03/08/14 19:23	57-74-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	72-54-8	
4,4'-DDE	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	72-55-9	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	50-29-3	
Dieldrin	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:23	60-57-1	
Endosulfan I	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	959-98-8	
Endosulfan II	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	1031-07-8	
Endrin	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:23	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:23	76-44-8	
Heptachlor epoxide	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:23	1024-57-3	
Methoxychlor	ND	ug/L	1.0	0.15	1	02/28/14 11:20	03/08/14 19:23	72-43-5	
Toxaphene	ND	ug/L	1.5	0.20	1	02/28/14 11:20	03/08/14 19:23	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	69	%	20-130		1	02/28/14 11:20	03/08/14 19:23	877-09-8	
Decachlorobiphenyl (S)	64	%	20-130		1	02/28/14 11:20	03/08/14 19:23	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 20:52	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	75	%	10-132		1	02/28/14 11:20	03/03/14 20:52	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.24	1	03/03/14 15:30	03/07/14 03:35	94-75-7	
Dinoseb	ND	ug/L	1.1	0.060	1	03/03/14 15:30	03/07/14 03:35	88-85-7	
2,4,5-T	ND	ug/L	2.1	0.044	1	03/03/14 15:30	03/07/14 03:35	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.1	0.052	1	03/03/14 15:30	03/07/14 03:35	93-72-1	
Surrogates									
2,4-DCAA (S)	108	%	42-142		1	03/03/14 15:30	03/07/14 03:35	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-39-3	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW4 **Lab ID: 92191419004** Collected: 02/24/14 12:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:05	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:05	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7439-92-1	
Nickel	**10.4J**	ug/L	50.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:05	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/05/14 00:05	7440-28-0	
Tin	**9.8J**	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-31-5	
Vanadium	**12.9J**	ug/L	25.0	5.0	1	02/28/14 09:05	03/05/14 00:05	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:16	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	02/28/14 09:00	03/04/14 18:37	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:37	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 18:37	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	02/28/14 09:00	03/04/14 18:37	53-96-3	
4-Aminobiphenyl	ND	ug/L	20.0	5.2	1	02/28/14 09:00	03/04/14 18:37	92-67-1	
Anthracene	ND	ug/L	10.0	0.14	1	02/28/14 09:00	03/04/14 18:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	02/28/14 09:00	03/04/14 18:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	02/28/14 09:00	03/04/14 18:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 18:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	02/28/14 09:00	03/04/14 18:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	02/28/14 09:00	03/04/14 18:37	207-08-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	02/28/14 09:00	03/04/14 18:37	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	02/28/14 09:00	03/04/14 18:37	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	02/28/14 09:00	03/04/14 18:37	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 18:37	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	02/28/14 09:00	03/04/14 18:37	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	02/28/14 09:00	03/04/14 18:37	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 18:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 18:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	02/28/14 09:00	03/04/14 18:37	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 18:37	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 18:37	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	02/28/14 09:00	03/04/14 18:37	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:37	218-01-9	
Diallate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 18:37	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	02/28/14 09:00	03/04/14 18:37	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 18:37	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 18:37	91-94-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW4 **Lab ID: 92191419004** Collected: 02/24/14 12:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	02/28/14 09:00	03/04/14 18:37	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 18:37	87-65-0	
Diethylphthalate	ND	ug/L	6000	0.58	1	02/28/14 09:00	03/04/14 18:37	84-66-2	
Dimethoate	ND	ug/L	20.0	4.9	1	02/28/14 09:00	03/04/14 18:37	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	2.7	1	02/28/14 09:00	03/04/14 18:37	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 18:37	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	02/28/14 09:00	03/04/14 18:37	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 18:37	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	02/28/14 09:00	03/04/14 18:37	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	02/28/14 09:00	03/04/14 18:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2.6	1	02/28/14 09:00	03/04/14 18:37	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	02/28/14 09:00	03/04/14 18:37	99-65-0	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	02/28/14 09:00	03/04/14 18:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	02/28/14 09:00	03/04/14 18:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 18:37	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	02/28/14 09:00	03/04/14 18:37	117-84-0	
Diphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 18:37	122-39-4	
Disulfoton	ND	ug/L	10.0	5.5	1	02/28/14 09:00	03/04/14 18:37	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/28/14 09:00	03/04/14 18:37	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 18:37	62-50-0	
Famphur	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 18:37	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:37	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 18:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	02/28/14 09:00	03/04/14 18:37	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	02/28/14 09:00	03/04/14 18:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	02/28/14 09:00	03/04/14 18:37	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 18:37	67-72-1	
Hexachloropropene	ND	ug/L	10.0	3.2	1	02/28/14 09:00	03/04/14 18:37	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	02/28/14 09:00	03/04/14 18:37	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 18:37	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 18:37	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	02/28/14 09:00	03/04/14 18:37	120-58-1	
Kepone	ND	ug/L	20.0	8.3	1	02/28/14 09:00	03/04/14 18:37	143-50-0	
Methapyrilene	ND	ug/L	100	5.8	1	02/28/14 09:00	03/04/14 18:37	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	02/28/14 09:00	03/04/14 18:37	56-49-5	
Methyl methanesulfonate	ND	ug/L	10.0	3.7	1	02/28/14 09:00	03/04/14 18:37	66-27-3	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 18:37	91-57-6	
Methyl parathion	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 18:37	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	02/28/14 09:00	03/04/14 18:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	02/28/14 09:00	03/04/14 18:37		
1-Naphthalenamine	ND	ug/L	10.0	4.1	1	02/28/14 09:00	03/04/14 18:37	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	3.0	1	02/28/14 09:00	03/04/14 18:37	91-59-8	
1,4-Naphthoquinone	ND	ug/L	10.0	3.3	1	02/28/14 09:00	03/04/14 18:37	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 18:37	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 18:37	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 18:37	100-01-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW4 **Lab ID: 92191419004** Collected: 02/24/14 12:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Nitrobenzene	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 18:37	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 18:37	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	02/28/14 09:00	03/04/14 18:37	100-02-7	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 18:37	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 18:37	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 18:37	62-75-9	
N-Nitroso-di-n-butylamine	**8.6J**	ug/L	10.0	7.5	1	02/28/14 09:00	03/04/14 18:37	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 18:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 18:37	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	02/28/14 09:00	03/04/14 18:37	10595-95-6	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 18:37	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	02/28/14 09:00	03/04/14 18:37	930-55-2	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 18:37	126-68-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 18:37	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	02/28/14 09:00	03/04/14 18:37	608-93-5	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 18:37	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	02/28/14 09:00	03/04/14 18:37	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 18:37	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	02/28/14 09:00	03/04/14 18:37	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	02/28/14 09:00	03/04/14 18:37	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	02/28/14 09:00	03/04/14 18:37	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 18:37	298-02-2	
Pronamide	ND	ug/L	10.0	5.8	1	02/28/14 09:00	03/04/14 18:37	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	02/28/14 09:00	03/04/14 18:37	129-00-0	
Safrole	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 18:37	94-59-7	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	02/28/14 09:00	03/04/14 18:37	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 18:37	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 18:37	297-97-2	
O-Toluidine	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 18:37	95-53-4	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 18:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 18:37	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 18:37	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	64	%	21-110		1	02/28/14 09:00	03/04/14 18:37	4165-60-0	
2-Fluorobiphenyl (S)	68	%	27-110		1	02/28/14 09:00	03/04/14 18:37	321-60-8	
Terphenyl-d14 (S)	77	%	31-107		1	02/28/14 09:00	03/04/14 18:37	1718-51-0	
Phenol-d6 (S)	25	%	10-110		1	02/28/14 09:00	03/04/14 18:37	13127-88-3	
2-Fluorophenol (S)	38	%	12-110		1	02/28/14 09:00	03/04/14 18:37	367-12-4	
2,4,6-Tribromophenol (S)	114	%	27-110		1	02/28/14 09:00	03/04/14 18:37	118-79-6	S0
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/03/14 04:20	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/03/14 04:20	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/03/14 04:20	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/03/14 04:20	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/03/14 04:20	107-05-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW4 **Lab ID: 92191419004** Collected: 02/24/14 12:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		03/03/14 04:20	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/03/14 04:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/03/14 04:20	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/03/14 04:20	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/03/14 04:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/03/14 04:20	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/03/14 04:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/03/14 04:20	56-23-5	
Chlorobenzene	**1.4J**	ug/L	3.0	0.23	1		03/03/14 04:20	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/03/14 04:20	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/03/14 04:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/03/14 04:20	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/03/14 04:20	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/03/14 04:20	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/03/14 04:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/03/14 04:20	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/03/14 04:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/03/14 04:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/03/14 04:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/03/14 04:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/03/14 04:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/03/14 04:20	75-71-8	
1,1-Dichloroethane	**0.50J**	ug/L	5.0	0.32	1		03/03/14 04:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/03/14 04:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/03/14 04:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/03/14 04:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/03/14 04:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/03/14 04:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/03/14 04:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/03/14 04:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/03/14 04:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/03/14 04:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/03/14 04:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/03/14 04:20	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/03/14 04:20	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/03/14 04:20	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/03/14 04:20	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/03/14 04:20	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/03/14 04:20	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/03/14 04:20	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/03/14 04:20	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/03/14 04:20	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/03/14 04:20	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/03/14 04:20	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/03/14 04:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/03/14 04:20	630-20-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW4 **Lab ID: 92191419004** Collected: 02/24/14 12:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/03/14 04:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/03/14 04:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/03/14 04:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/03/14 04:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/03/14 04:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/03/14 04:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/03/14 04:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/03/14 04:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/03/14 04:20	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/03/14 04:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/03/14 04:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/03/14 04:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/03/14 04:20	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/03/14 04:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/03/14 04:20	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/10/14 13:25	57-12-5	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW5 **Lab ID: 92191419005** Collected: 02/24/14 11:25 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:40	309-00-2	
alpha-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:40	319-84-6	
beta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:40	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:40	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:40	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	0.20	1	02/28/14 11:20	03/08/14 19:40	57-74-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	72-54-8	
4,4'-DDE	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	72-55-9	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	50-29-3	
Dieldrin	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:40	60-57-1	
Endosulfan I	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	959-98-8	
Endosulfan II	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	1031-07-8	
Endrin	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:40	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:40	76-44-8	
Heptachlor epoxide	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:40	1024-57-3	
Methoxychlor	ND	ug/L	1.0	0.15	1	02/28/14 11:20	03/08/14 19:40	72-43-5	
Toxaphene	ND	ug/L	1.5	0.20	1	02/28/14 11:20	03/08/14 19:40	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	47	%	20-130		1	02/28/14 11:20	03/08/14 19:40	877-09-8	
Decachlorobiphenyl (S)	68	%	20-130		1	02/28/14 11:20	03/08/14 19:40	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 21:54	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	61	%	10-132		1	02/28/14 11:20	03/03/14 21:54	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.23	1	03/03/14 15:30	03/05/14 00:07	94-75-7	
Dinoseb	ND	ug/L	1.0	0.059	1	03/03/14 15:30	03/05/14 00:07	88-85-7	
2,4,5-T	ND	ug/L	2.1	0.044	1	03/03/14 15:30	03/05/14 00:07	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.1	0.051	1	03/03/14 15:30	03/05/14 00:07	93-72-1	
Surrogates									
2,4-DCAA (S)	85	%	42-142		1	03/03/14 15:30	03/05/14 00:07	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-38-2	
Barium	**139**	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-39-3	

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(704)875-9092

ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW5 **Lab ID: 92191419005** Collected: 02/24/14 11:25 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:09	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:09	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-47-3	
Cobalt	**9.6J**	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-48-4	
Copper	**5.1J**	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:09	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/05/14 00:09	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/05/14 00:09	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:24	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	02/28/14 09:00	03/04/14 19:13	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:13	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 19:13	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	02/28/14 09:00	03/04/14 19:13	53-96-3	
4-Aminobiphenyl	ND	ug/L	20.0	5.2	1	02/28/14 09:00	03/04/14 19:13	92-67-1	
Anthracene	ND	ug/L	10.0	0.14	1	02/28/14 09:00	03/04/14 19:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	02/28/14 09:00	03/04/14 19:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	02/28/14 09:00	03/04/14 19:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 19:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	02/28/14 09:00	03/04/14 19:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	02/28/14 09:00	03/04/14 19:13	207-08-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	02/28/14 09:00	03/04/14 19:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	02/28/14 09:00	03/04/14 19:13	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	02/28/14 09:00	03/04/14 19:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 19:13	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	02/28/14 09:00	03/04/14 19:13	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	02/28/14 09:00	03/04/14 19:13	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 19:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 19:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	02/28/14 09:00	03/04/14 19:13	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 19:13	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 19:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	02/28/14 09:00	03/04/14 19:13	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:13	218-01-9	
Diallate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 19:13	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	02/28/14 09:00	03/04/14 19:13	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 19:13	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 19:13	91-94-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW5 **Lab ID: 92191419005** Collected: 02/24/14 11:25 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	02/28/14 09:00	03/04/14 19:13	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 19:13	87-65-0	
Diethylphthalate	ND	ug/L	6000	0.58	1	02/28/14 09:00	03/04/14 19:13	84-66-2	
Dimethoate	ND	ug/L	20.0	4.9	1	02/28/14 09:00	03/04/14 19:13	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	2.7	1	02/28/14 09:00	03/04/14 19:13	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 19:13	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	02/28/14 09:00	03/04/14 19:13	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 19:13	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	02/28/14 09:00	03/04/14 19:13	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	02/28/14 09:00	03/04/14 19:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2.6	1	02/28/14 09:00	03/04/14 19:13	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	02/28/14 09:00	03/04/14 19:13	99-65-0	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	02/28/14 09:00	03/04/14 19:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	02/28/14 09:00	03/04/14 19:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 19:13	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	02/28/14 09:00	03/04/14 19:13	117-84-0	
Diphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 19:13	122-39-4	
Disulfoton	ND	ug/L	10.0	5.5	1	02/28/14 09:00	03/04/14 19:13	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/28/14 09:00	03/04/14 19:13	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 19:13	62-50-0	
Famphur	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 19:13	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:13	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	02/28/14 09:00	03/04/14 19:13	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	02/28/14 09:00	03/04/14 19:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	02/28/14 09:00	03/04/14 19:13	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 19:13	67-72-1	
Hexachloropropene	ND	ug/L	10.0	3.2	1	02/28/14 09:00	03/04/14 19:13	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	02/28/14 09:00	03/04/14 19:13	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 19:13	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 19:13	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	02/28/14 09:00	03/04/14 19:13	120-58-1	
Kepone	ND	ug/L	20.0	8.3	1	02/28/14 09:00	03/04/14 19:13	143-50-0	
Methapyrilene	ND	ug/L	100	5.8	1	02/28/14 09:00	03/04/14 19:13	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	02/28/14 09:00	03/04/14 19:13	56-49-5	
Methyl methanesulfonate	ND	ug/L	10.0	3.7	1	02/28/14 09:00	03/04/14 19:13	66-27-3	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 19:13	91-57-6	
Methyl parathion	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 19:13	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	02/28/14 09:00	03/04/14 19:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	02/28/14 09:00	03/04/14 19:13		
1-Naphthalenamine	ND	ug/L	10.0	4.1	1	02/28/14 09:00	03/04/14 19:13	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	3.0	1	02/28/14 09:00	03/04/14 19:13	91-59-8	
1,4-Naphthoquinone	ND	ug/L	10.0	3.3	1	02/28/14 09:00	03/04/14 19:13	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 19:13	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 19:13	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 19:13	100-01-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW5 **Lab ID: 92191419005** Collected: 02/24/14 11:25 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Nitrobenzene	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 19:13	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 19:13	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	02/28/14 09:00	03/04/14 19:13	100-02-7	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 19:13	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 19:13	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 19:13	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	02/28/14 09:00	03/04/14 19:13	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 19:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 19:13	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	02/28/14 09:00	03/04/14 19:13	10595-95-6	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 19:13	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	02/28/14 09:00	03/04/14 19:13	930-55-2	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 19:13	126-68-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 19:13	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	02/28/14 09:00	03/04/14 19:13	608-93-5	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 19:13	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	02/28/14 09:00	03/04/14 19:13	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 19:13	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	02/28/14 09:00	03/04/14 19:13	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	02/28/14 09:00	03/04/14 19:13	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	02/28/14 09:00	03/04/14 19:13	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 19:13	298-02-2	
Pronamide	ND	ug/L	10.0	5.8	1	02/28/14 09:00	03/04/14 19:13	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	02/28/14 09:00	03/04/14 19:13	129-00-0	
Safrole	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 19:13	94-59-7	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	02/28/14 09:00	03/04/14 19:13	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 19:13	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 19:13	297-97-2	
O-Toluidine	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 19:13	95-53-4	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 19:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 19:13	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 19:13	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	41	%	21-110		1	02/28/14 09:00	03/04/14 19:13	4165-60-0	
2-Fluorobiphenyl (S)	46	%	27-110		1	02/28/14 09:00	03/04/14 19:13	321-60-8	
Terphenyl-d14 (S)	66	%	31-107		1	02/28/14 09:00	03/04/14 19:13	1718-51-0	
Phenol-d6 (S)	12	%	10-110		1	02/28/14 09:00	03/04/14 19:13	13127-88-3	
2-Fluorophenol (S)	15	%	12-110		1	02/28/14 09:00	03/04/14 19:13	367-12-4	
2,4,6-Tribromophenol (S)	48	%	27-110		1	02/28/14 09:00	03/04/14 19:13	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/03/14 04:36	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/03/14 04:36	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/03/14 04:36	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/03/14 04:36	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/03/14 04:36	107-05-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW5 **Lab ID: 92191419005** Collected: 02/24/14 11:25 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		03/03/14 04:36	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/03/14 04:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/03/14 04:36	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/03/14 04:36	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/03/14 04:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/03/14 04:36	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/03/14 04:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/03/14 04:36	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/03/14 04:36	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/03/14 04:36	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/03/14 04:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/03/14 04:36	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/03/14 04:36	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/03/14 04:36	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/03/14 04:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/03/14 04:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/03/14 04:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/03/14 04:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/03/14 04:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/03/14 04:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/03/14 04:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/03/14 04:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/03/14 04:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/03/14 04:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/03/14 04:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/03/14 04:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/03/14 04:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/03/14 04:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/03/14 04:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/03/14 04:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/03/14 04:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/03/14 04:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/03/14 04:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/03/14 04:36	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/03/14 04:36	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/03/14 04:36	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/03/14 04:36	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/03/14 04:36	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/03/14 04:36	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/03/14 04:36	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/03/14 04:36	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/03/14 04:36	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/03/14 04:36	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/03/14 04:36	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/03/14 04:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/03/14 04:36	630-20-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW5 **Lab ID: 92191419005** Collected: 02/24/14 11:25 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/03/14 04:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/03/14 04:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/03/14 04:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/03/14 04:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/03/14 04:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/03/14 04:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/03/14 04:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/03/14 04:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/03/14 04:36	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/03/14 04:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/03/14 04:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/03/14 04:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/03/14 04:36	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/03/14 04:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/03/14 04:36	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/10/14 13:26	57-12-5	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW6 **Lab ID: 92191419006** Collected: 02/24/14 10:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
Aldrin	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:58	309-00-2	
alpha-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:58	319-84-6	
beta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:58	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:58	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:58	58-89-9	
Chlordane (Technical)	ND	ug/L	0.50	0.20	1	02/28/14 11:20	03/08/14 19:58	57-74-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	72-54-8	
4,4'-DDE	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	72-55-9	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	50-29-3	
Dieldrin	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:58	60-57-1	
Endosulfan I	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	959-98-8	
Endosulfan II	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	1031-07-8	
Endrin	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 19:58	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 19:58	76-44-8	
Heptachlor epoxide	ND	ug/L	0.075	0.050	1	02/28/14 11:20	03/08/14 19:58	1024-57-3	
Methoxychlor	ND	ug/L	1.0	0.15	1	02/28/14 11:20	03/08/14 19:58	72-43-5	
Toxaphene	ND	ug/L	1.5	0.20	1	02/28/14 11:20	03/08/14 19:58	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	53	%	20-130		1	02/28/14 11:20	03/08/14 19:58	877-09-8	
Decachlorobiphenyl (S)	75	%	20-130		1	02/28/14 11:20	03/08/14 19:58	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.50	1	02/28/14 11:20	03/03/14 23:16	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	75	%	10-132		1	02/28/14 11:20	03/03/14 23:16	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.23	1	03/03/14 15:30	03/07/14 04:05	94-75-7	
Dinoseb	ND	ug/L	1.0	0.059	1	03/03/14 15:30	03/07/14 04:05	88-85-7	
2,4,5-T	ND	ug/L	2.1	0.044	1	03/03/14 15:30	03/07/14 04:05	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.1	0.051	1	03/03/14 15:30	03/07/14 04:05	93-72-1	
Surrogates									
2,4-DCAA (S)	108	%	42-142		1	03/03/14 15:30	03/07/14 04:05	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-39-3	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW6 **Lab ID: 92191419006** Collected: 02/24/14 10:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/05/14 00:26	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:26	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/05/14 00:26	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/05/14 00:26	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/05/14 00:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:27	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	02/28/14 09:00	03/04/14 19:50	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:50	208-96-8	
Acetophenone	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 19:50	98-86-2	
2-Acetylaminofluorene	ND	ug/L	20.0	5.8	1	02/28/14 09:00	03/04/14 19:50	53-96-3	
4-Aminobiphenyl	ND	ug/L	20.0	5.2	1	02/28/14 09:00	03/04/14 19:50	92-67-1	
Anthracene	ND	ug/L	10.0	0.14	1	02/28/14 09:00	03/04/14 19:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	02/28/14 09:00	03/04/14 19:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	02/28/14 09:00	03/04/14 19:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 19:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	02/28/14 09:00	03/04/14 19:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	02/28/14 09:00	03/04/14 19:50	207-08-9	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	02/28/14 09:00	03/04/14 19:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	02/28/14 09:00	03/04/14 19:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	02/28/14 09:00	03/04/14 19:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 19:50	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	02/28/14 09:00	03/04/14 19:50	106-47-8	
Chlorobenzilate	ND	ug/L	10.0	4.5	1	02/28/14 09:00	03/04/14 19:50	510-15-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 19:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 19:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	02/28/14 09:00	03/04/14 19:50	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 19:50	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 19:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	02/28/14 09:00	03/04/14 19:50	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:50	218-01-9	
Diallate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 19:50	2303-16-4	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	02/28/14 09:00	03/04/14 19:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 19:50	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 19:50	91-94-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW6 **Lab ID: 92191419006** Collected: 02/24/14 10:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	02/28/14 09:00	03/04/14 19:50	120-83-2	
2,6-Dichlorophenol	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 19:50	87-65-0	
Diethylphthalate	ND	ug/L	6000	0.58	1	02/28/14 09:00	03/04/14 19:50	84-66-2	
Dimethoate	ND	ug/L	20.0	4.9	1	02/28/14 09:00	03/04/14 19:50	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	2.7	1	02/28/14 09:00	03/04/14 19:50	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 19:50	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	9.6	1	02/28/14 09:00	03/04/14 19:50	119-93-7	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 19:50	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	02/28/14 09:00	03/04/14 19:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	02/28/14 09:00	03/04/14 19:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2.6	1	02/28/14 09:00	03/04/14 19:50	534-52-1	
1,3-Dinitrobenzene	ND	ug/L	20.0	5.1	1	02/28/14 09:00	03/04/14 19:50	99-65-0	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	02/28/14 09:00	03/04/14 19:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	02/28/14 09:00	03/04/14 19:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	02/28/14 09:00	03/04/14 19:50	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	02/28/14 09:00	03/04/14 19:50	117-84-0	
Diphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 19:50	122-39-4	
Disulfoton	ND	ug/L	10.0	5.5	1	02/28/14 09:00	03/04/14 19:50	298-04-4	
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	0.79	1	02/28/14 09:00	03/04/14 19:50	117-81-7	
Ethyl methanesulfonate	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 19:50	62-50-0	
Famphur	ND	ug/L	20.0	3.7	1	02/28/14 09:00	03/04/14 19:50	52-85-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:50	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	02/28/14 09:00	03/04/14 19:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	02/28/14 09:00	03/04/14 19:50	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	02/28/14 09:00	03/04/14 19:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	02/28/14 09:00	03/04/14 19:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 19:50	67-72-1	
Hexachloropropene	ND	ug/L	10.0	3.2	1	02/28/14 09:00	03/04/14 19:50	1888-71-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	02/28/14 09:00	03/04/14 19:50	193-39-5	
Isodrin	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 19:50	465-73-6	
Isophorone	ND	ug/L	10.0	0.89	1	02/28/14 09:00	03/04/14 19:50	78-59-1	
Isosafrole	ND	ug/L	10.0	4.4	1	02/28/14 09:00	03/04/14 19:50	120-58-1	
Kepone	ND	ug/L	20.0	8.3	1	02/28/14 09:00	03/04/14 19:50	143-50-0	
Methapyrilene	ND	ug/L	100	5.8	1	02/28/14 09:00	03/04/14 19:50	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	2.6	1	02/28/14 09:00	03/04/14 19:50	56-49-5	
Methyl methanesulfonate	ND	ug/L	10.0	3.7	1	02/28/14 09:00	03/04/14 19:50	66-27-3	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	02/28/14 09:00	03/04/14 19:50	91-57-6	
Methyl parathion	ND	ug/L	10.0	4.9	1	02/28/14 09:00	03/04/14 19:50	298-00-0	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	02/28/14 09:00	03/04/14 19:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	02/28/14 09:00	03/04/14 19:50		
1-Naphthalenamine	ND	ug/L	10.0	4.1	1	02/28/14 09:00	03/04/14 19:50	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	3.0	1	02/28/14 09:00	03/04/14 19:50	91-59-8	
1,4-Naphthoquinone	ND	ug/L	10.0	3.3	1	02/28/14 09:00	03/04/14 19:50	130-15-4	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 19:50	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	02/28/14 09:00	03/04/14 19:50	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	02/28/14 09:00	03/04/14 19:50	100-01-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW6 **Lab ID: 92191419006** Collected: 02/24/14 10:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Nitrobenzene	ND	ug/L	10.0	1.1	1	02/28/14 09:00	03/04/14 19:50	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 19:50	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	02/28/14 09:00	03/04/14 19:50	100-02-7	
5-Nitro-o-toluidine	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 19:50	99-55-8	
N-Nitrosodiethylamine	ND	ug/L	20.0	5.6	1	02/28/14 09:00	03/04/14 19:50	55-18-5	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	02/28/14 09:00	03/04/14 19:50	62-75-9	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	7.5	1	02/28/14 09:00	03/04/14 19:50	924-16-3	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	02/28/14 09:00	03/04/14 19:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	02/28/14 09:00	03/04/14 19:50	86-30-6	
N-Nitrosomethylethylamine	ND	ug/L	10.0	4.7	1	02/28/14 09:00	03/04/14 19:50	10595-95-6	
N-Nitrosopiperidine	ND	ug/L	20.0	5.7	1	02/28/14 09:00	03/04/14 19:50	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	6.9	1	02/28/14 09:00	03/04/14 19:50	930-55-2	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 19:50	126-68-1	
Parathion (Ethyl parathion)	ND	ug/L	10.0	5.1	1	02/28/14 09:00	03/04/14 19:50	56-38-2	
Pentachlorobenzene	ND	ug/L	10.0	4.3	1	02/28/14 09:00	03/04/14 19:50	608-93-5	
Pentachloronitrobenzene	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 19:50	82-68-8	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	02/28/14 09:00	03/04/14 19:50	87-86-5	
Phenacetin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 19:50	62-44-2	
Phenanthrene	ND	ug/L	10.0	0.22	1	02/28/14 09:00	03/04/14 19:50	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	02/28/14 09:00	03/04/14 19:50	108-95-2	
p-Phenylenediamine	ND	ug/L	10.0	6.7	1	02/28/14 09:00	03/04/14 19:50	106-50-3	
Phorate	ND	ug/L	10.0	5.4	1	02/28/14 09:00	03/04/14 19:50	298-02-2	
Pronamide	ND	ug/L	10.0	5.8	1	02/28/14 09:00	03/04/14 19:50	23950-58-5	
Pyrene	ND	ug/L	10.0	0.19	1	02/28/14 09:00	03/04/14 19:50	129-00-0	
Safrole	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 19:50	94-59-7	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	4.0	1	02/28/14 09:00	03/04/14 19:50	95-94-3	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	1.2	1	02/28/14 09:00	03/04/14 19:50	58-90-2	
Thionazin	ND	ug/L	20.0	4.8	1	02/28/14 09:00	03/04/14 19:50	297-97-2	
O-Toluidine	ND	ug/L	10.0	5.7	1	02/28/14 09:00	03/04/14 19:50	95-53-4	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	02/28/14 09:00	03/04/14 19:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	02/28/14 09:00	03/04/14 19:50	88-06-2	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	5.2	1	02/28/14 09:00	03/04/14 19:50	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	67	%	21-110		1	02/28/14 09:00	03/04/14 19:50	4165-60-0	
2-Fluorobiphenyl (S)	72	%	27-110		1	02/28/14 09:00	03/04/14 19:50	321-60-8	
Terphenyl-d14 (S)	74	%	31-107		1	02/28/14 09:00	03/04/14 19:50	1718-51-0	
Phenol-d6 (S)	23	%	10-110		1	02/28/14 09:00	03/04/14 19:50	13127-88-3	
2-Fluorophenol (S)	37	%	12-110		1	02/28/14 09:00	03/04/14 19:50	367-12-4	
2,4,6-Tribromophenol (S)	109	%	27-110		1	02/28/14 09:00	03/04/14 19:50	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/03/14 01:43	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/03/14 01:43	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/03/14 01:43	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/03/14 01:43	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/03/14 01:43	107-05-1	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW6 **Lab ID: 92191419006** Collected: 02/24/14 10:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		03/03/14 01:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/03/14 01:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/03/14 01:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/03/14 01:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/03/14 01:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/03/14 01:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/03/14 01:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/03/14 01:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/03/14 01:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/03/14 01:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/03/14 01:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/03/14 01:43	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/03/14 01:43	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/03/14 01:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/03/14 01:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/03/14 01:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/03/14 01:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/03/14 01:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/03/14 01:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/03/14 01:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/03/14 01:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/03/14 01:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/03/14 01:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/03/14 01:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/03/14 01:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/03/14 01:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/03/14 01:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/03/14 01:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/03/14 01:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/03/14 01:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/03/14 01:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/03/14 01:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/03/14 01:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/03/14 01:43	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/03/14 01:43	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/03/14 01:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/03/14 01:43	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/03/14 01:43	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/03/14 01:43	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/03/14 01:43	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/03/14 01:43	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/03/14 01:43	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/03/14 01:43	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/03/14 01:43	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/03/14 01:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/03/14 01:43	630-20-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-MW6 **Lab ID: 92191419006** Collected: 02/24/14 10:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/03/14 01:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/03/14 01:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/03/14 01:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/03/14 01:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/03/14 01:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/03/14 01:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/03/14 01:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/03/14 01:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/03/14 01:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/03/14 01:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/03/14 01:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/03/14 01:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/03/14 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/03/14 01:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/03/14 01:43	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/10/14 13:29	57-12-5	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-NES-1 **Lab ID: 92191419007** Collected: 02/24/14 14:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/03/14 01:59	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/03/14 01:59	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/03/14 01:59	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/03/14 01:59	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/03/14 01:59	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		03/03/14 01:59	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/03/14 01:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/03/14 01:59	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/03/14 01:59	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/03/14 01:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/03/14 01:59	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/03/14 01:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/03/14 01:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/03/14 01:59	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/03/14 01:59	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/03/14 01:59	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/03/14 01:59	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/03/14 01:59	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/03/14 01:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/03/14 01:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/03/14 01:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/03/14 01:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/03/14 01:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/03/14 01:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/03/14 01:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/03/14 01:59	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/03/14 01:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/03/14 01:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/03/14 01:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/03/14 01:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/03/14 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/03/14 01:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/03/14 01:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/03/14 01:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/03/14 01:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/03/14 01:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/03/14 01:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/03/14 01:59	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/03/14 01:59	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/03/14 01:59	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/03/14 01:59	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/03/14 01:59	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/03/14 01:59	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/03/14 01:59	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/03/14 01:59	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/03/14 01:59	80-62-6	

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ANALYTICAL RESULTS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Sample: 3902-NES-1 **Lab ID: 92191419007** Collected: 02/24/14 14:20 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/03/14 01:59	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/03/14 01:59	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/03/14 01:59	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/03/14 01:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/03/14 01:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/03/14 01:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/03/14 01:59	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/03/14 01:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/03/14 01:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/03/14 01:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/03/14 01:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/03/14 01:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/03/14 01:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/03/14 01:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/03/14 01:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/03/14 01:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/03/14 01:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/03/14 01:59	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/03/14 01:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/03/14 01:59	2037-26-5	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: MERP/6250 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1148164 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/10/14 17:52	

LABORATORY CONTROL SAMPLE: 1148165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148166 1148167

Parameter	Units	92191393001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	94	98	75-125	4	25	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: MPRP/15332 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1147590 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/04/14 22:42	
Arsenic	ug/L	ND	10.0	03/04/14 22:42	
Barium	ug/L	ND	100	03/04/14 22:42	
Beryllium	ug/L	ND	1.0	03/04/14 22:42	
Cadmium	ug/L	ND	1.0	03/04/14 22:42	
Chromium	ug/L	ND	10.0	03/04/14 22:42	
Cobalt	ug/L	ND	10.0	03/04/14 22:42	
Copper	ug/L	ND	10.0	03/04/14 22:42	
Lead	ug/L	ND	10.0	03/04/14 22:42	
Nickel	ug/L	ND	50.0	03/04/14 22:42	
Selenium	ug/L	ND	10.0	03/04/14 22:42	
Silver	ug/L	ND	10.0	03/04/14 22:42	
Thallium	ug/L	ND	5.5	03/04/14 22:42	
Tin	ug/L	ND	100	03/04/14 22:42	
Vanadium	ug/L	ND	25.0	03/04/14 22:42	
Zinc	ug/L	ND	10.0	03/04/14 22:42	

LABORATORY CONTROL SAMPLE: 1147591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	484	97	80-120	
Arsenic	ug/L	500	462	92	80-120	
Barium	ug/L	500	477	95	80-120	
Beryllium	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	479	96	80-120	
Chromium	ug/L	500	481	96	80-120	
Cobalt	ug/L	500	480	96	80-120	
Copper	ug/L	500	474	95	80-120	
Lead	ug/L	500	479	96	80-120	
Nickel	ug/L	500	479	96	80-120	
Selenium	ug/L	500	470	94	80-120	
Silver	ug/L	250	240	96	80-120	
Thallium	ug/L	500	461	92	80-120	
Tin	ug/L	500	485	97	80-120	
Vanadium	ug/L	500	484	97	80-120	
Zinc	ug/L	500	469	94	80-120	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147592 1147593

Parameter	Units	92191398001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	447	442	89	88	75-125	1	25	
Arsenic	ug/L	ND	500	500	476	471	95	94	75-125	1	25	
Barium	ug/L	63.9J	500	500	538	530	95	93	75-125	1	25	
Beryllium	ug/L	ND	500	500	479	473	96	95	75-125	1	25	
Cadmium	ug/L	ND	500	500	472	467	94	93	75-125	1	25	
Chromium	ug/L	13.5	500	500	503	498	98	97	75-125	1	25	
Cobalt	ug/L	10.1	500	500	484	477	95	93	75-125	1	25	
Copper	ug/L	11.2	500	500	502	495	98	97	75-125	1	25	
Lead	ug/L	ND	500	500	458	452	91	90	75-125	1	25	
Nickel	ug/L	7.3J	500	500	479	476	94	94	75-125	1	25	
Selenium	ug/L	ND	500	500	475	464	95	92	75-125	2	25	
Silver	ug/L	ND	250	250	241	238	96	95	75-125	1	25	
Thallium	ug/L	ND	500	500	443	439	89	88	75-125	1	25	
Tin	ug/L	ND	500	500	474	472	95	94	75-125	0	25	
Vanadium	ug/L	29.2	500	500	519	511	98	96	75-125	2	25	
Zinc	ug/L	15.0	500	500	489	484	95	94	75-125	1	25	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: MSV/25948 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92191419002, 92191419003, 92191419004, 92191419005, 92191419006, 92191419007

METHOD BLANK: 1148721 Matrix: Water
Associated Lab Samples: 92191419002, 92191419003, 92191419004, 92191419005, 92191419006, 92191419007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/02/14 22:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/02/14 22:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	03/02/14 22:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/02/14 22:20	
1,1-Dichloroethane	ug/L	ND	5.0	03/02/14 22:20	
1,1-Dichloroethene	ug/L	ND	5.0	03/02/14 22:20	
1,1-Dichloropropene	ug/L	ND	5.0	03/02/14 22:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/02/14 22:20	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	03/02/14 22:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	03/02/14 22:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/02/14 22:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/02/14 22:20	
1,2-Dichloroethane	ug/L	ND	1.0	03/02/14 22:20	
1,2-Dichloropropane	ug/L	ND	1.0	03/02/14 22:20	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/02/14 22:20	
1,3-Dichloropropane	ug/L	ND	1.0	03/02/14 22:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/02/14 22:20	
2,2-Dichloropropane	ug/L	ND	15.0	03/02/14 22:20	
2-Butanone (MEK)	ug/L	ND	100	03/02/14 22:20	
2-Hexanone	ug/L	ND	50.0	03/02/14 22:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	03/02/14 22:20	
Acetone	ug/L	ND	100	03/02/14 22:20	
Acetonitrile	ug/L	ND	55.0	03/02/14 22:20	
Acrolein	ug/L	ND	53.0	03/02/14 22:20	
Acrylonitrile	ug/L	ND	200	03/02/14 22:20	
Allyl chloride	ug/L	ND	10.0	03/02/14 22:20	
Benzene	ug/L	ND	1.0	03/02/14 22:20	
Bromochloromethane	ug/L	ND	3.0	03/02/14 22:20	
Bromodichloromethane	ug/L	ND	1.0	03/02/14 22:20	
Bromoform	ug/L	ND	3.0	03/02/14 22:20	
Bromomethane	ug/L	ND	10.0	03/02/14 22:20	
Carbon disulfide	ug/L	ND	100	03/02/14 22:20	
Carbon tetrachloride	ug/L	ND	1.0	03/02/14 22:20	
Chlorobenzene	ug/L	ND	3.0	03/02/14 22:20	
Chloroethane	ug/L	ND	10.0	03/02/14 22:20	
Chloroform	ug/L	ND	5.0	03/02/14 22:20	
Chloromethane	ug/L	ND	1.0	03/02/14 22:20	
Chloroprene	ug/L	ND	20.0	03/02/14 22:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/02/14 22:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/02/14 22:20	
Dibromochloromethane	ug/L	ND	3.0	03/02/14 22:20	
Dibromomethane	ug/L	ND	10.0	03/02/14 22:20	
Dichlorodifluoromethane	ug/L	ND	5.0	03/02/14 22:20	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

METHOD BLANK: 1148721 Matrix: Water
Associated Lab Samples: 92191419002, 92191419003, 92191419004, 92191419005, 92191419006, 92191419007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	03/02/14 22:20	
Ethylbenzene	ug/L	ND	1.0	03/02/14 22:20	
Iodomethane	ug/L	ND	10.0	03/02/14 22:20	
Isobutanol	ug/L	ND	100	03/02/14 22:20	
Methacrylonitrile	ug/L	ND	100	03/02/14 22:20	
Methyl methacrylate	ug/L	ND	30.0	03/02/14 22:20	
Methylene Chloride	ug/L	ND	1.0	03/02/14 22:20	
Naphthalene	ug/L	ND	10.0	03/02/14 22:20	
Propionitrile	ug/L	ND	150	03/02/14 22:20	
Styrene	ug/L	ND	1.0	03/02/14 22:20	
Tetrachloroethene	ug/L	ND	1.0	03/02/14 22:20	
Toluene	ug/L	ND	1.0	03/02/14 22:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/02/14 22:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/02/14 22:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/02/14 22:20	
Trichloroethene	ug/L	ND	1.0	03/02/14 22:20	
Trichlorofluoromethane	ug/L	ND	1.0	03/02/14 22:20	
Vinyl acetate	ug/L	ND	50.0	03/02/14 22:20	
Vinyl chloride	ug/L	ND	1.0	03/02/14 22:20	
Xylene (Total)	ug/L	ND	5.0	03/02/14 22:20	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/02/14 22:20	
4-Bromofluorobenzene (S)	%	100	70-130	03/02/14 22:20	
Toluene-d8 (S)	%	99	70-130	03/02/14 22:20	

LABORATORY CONTROL SAMPLE: 1148722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.0	104	70-130	
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethene	ug/L	50	48.5	97	70-132	
1,1-Dichloropropene	ug/L	50	51.2	102	70-130	
1,2,3-Trichloropropane	ug/L	50	52.5	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,2-Dichloroethane	ug/L	50	48.7	97	70-130	
1,2-Dichloropropane	ug/L	50	52.3	105	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	52.6	105	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
2,2-Dichloropropane	ug/L	50	47.9	96	58-145	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

LABORATORY CONTROL SAMPLE: 1148722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Hexanone	ug/L	100	102	102	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	70-140	
Acetone	ug/L	100	91.1J	91	50-175	
Acetonitrile	ug/L	500	501	100	70-130	
Acrolein	ug/L	250	235	94	70-130	
Acrylonitrile	ug/L	250	250	100	70-143	
Allyl chloride	ug/L	50	47.2	94	70-130	
Benzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	54.9	110	70-130	
Bromomethane	ug/L	50	46.0	92	54-130	
Carbon disulfide	ug/L	50	50.5J	101	70-131	
Carbon tetrachloride	ug/L	50	51.7	103	70-132	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	47.5	95	64-134	
Chloroform	ug/L	50	49.8	100	70-130	
Chloromethane	ug/L	50	44.1	88	64-130	
Chloroprene	ug/L	50	51.4	103	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dibromomethane	ug/L	50	52.6	105	70-131	
Dichlorodifluoromethane	ug/L	50	48.9	98	56-130	
Ethyl methacrylate	ug/L	50	50.3	101	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
Iodomethane	ug/L	100	92.4	92	49-180	
Isobutanol	ug/L	1000	1100	110	70-130	
Methacrylonitrile	ug/L	500	505	101	70-130	
Methyl methacrylate	ug/L	50	52.8	106	70-130	
Methylene Chloride	ug/L	50	46.6	93	63-130	
Naphthalene	ug/L	50	51.5	103	70-138	
Propionitrile	ug/L	500	517	103	70-130	
Styrene	ug/L	50	54.1	108	70-130	
Tetrachloroethene	ug/L	50	52.0	104	70-130	
Toluene	ug/L	50	51.4	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.7J	93	70-141	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	48.8	98	62-133	
Vinyl acetate	ug/L	100	97.9	98	66-157	
Vinyl chloride	ug/L	50	51.8	104	69-130	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148723 1148724

Parameter	Units	92191399002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	49.5	57.1	99	114	70-166	14	30	
Benzene	ug/L	ND	50	50	52.0	60.6	104	121	70-148	15	30	
Chlorobenzene	ug/L	ND	50	50	50.8	58.5	102	117	70-146	14	30	
Toluene	ug/L	ND	50	50	49.9	57.3	100	115	70-155	14	30	
Trichloroethene	ug/L	ND	50	50	54.1	61.8	108	124	69-151	13	30	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: MSV/26022
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92191419001

METHOD BLANK: 1152974
Matrix: Water
Associated Lab Samples: 92191419001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/07/14 23:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/07/14 23:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	03/07/14 23:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/07/14 23:16	
1,1-Dichloroethane	ug/L	ND	5.0	03/07/14 23:16	
1,1-Dichloroethene	ug/L	ND	5.0	03/07/14 23:16	
1,1-Dichloropropene	ug/L	ND	5.0	03/07/14 23:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/07/14 23:16	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	03/07/14 23:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	03/07/14 23:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/07/14 23:16	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/07/14 23:16	
1,2-Dichloroethane	ug/L	ND	1.0	03/07/14 23:16	
1,2-Dichloropropane	ug/L	ND	1.0	03/07/14 23:16	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/07/14 23:16	
1,3-Dichloropropane	ug/L	ND	1.0	03/07/14 23:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/07/14 23:16	
2,2-Dichloropropane	ug/L	ND	15.0	03/07/14 23:16	
2-Butanone (MEK)	ug/L	ND	100	03/07/14 23:16	
2-Hexanone	ug/L	ND	50.0	03/07/14 23:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	03/07/14 23:16	
Acetone	ug/L	ND	100	03/07/14 23:16	
Acetonitrile	ug/L	ND	55.0	03/07/14 23:16	
Acrolein	ug/L	ND	53.0	03/07/14 23:16	
Acrylonitrile	ug/L	ND	200	03/07/14 23:16	
Allyl chloride	ug/L	ND	10.0	03/07/14 23:16	
Benzene	ug/L	ND	1.0	03/07/14 23:16	
Bromochloromethane	ug/L	ND	3.0	03/07/14 23:16	
Bromodichloromethane	ug/L	ND	1.0	03/07/14 23:16	
Bromoform	ug/L	ND	3.0	03/07/14 23:16	
Bromomethane	ug/L	ND	10.0	03/07/14 23:16	
Carbon disulfide	ug/L	ND	100	03/07/14 23:16	
Carbon tetrachloride	ug/L	ND	1.0	03/07/14 23:16	
Chlorobenzene	ug/L	ND	3.0	03/07/14 23:16	
Chloroethane	ug/L	ND	10.0	03/07/14 23:16	
Chloroform	ug/L	ND	5.0	03/07/14 23:16	
Chloromethane	ug/L	ND	1.0	03/07/14 23:16	
Chloroprene	ug/L	ND	20.0	03/07/14 23:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/07/14 23:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/07/14 23:16	
Dibromochloromethane	ug/L	ND	3.0	03/07/14 23:16	
Dibromomethane	ug/L	ND	10.0	03/07/14 23:16	
Dichlorodifluoromethane	ug/L	ND	5.0	03/07/14 23:16	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

METHOD BLANK: 1152974 Matrix: Water
Associated Lab Samples: 92191419001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	03/07/14 23:16	
Ethylbenzene	ug/L	ND	1.0	03/07/14 23:16	
Iodomethane	ug/L	ND	10.0	03/07/14 23:16	
Isobutanol	ug/L	ND	100	03/07/14 23:16	
Methacrylonitrile	ug/L	ND	100	03/07/14 23:16	
Methyl methacrylate	ug/L	ND	30.0	03/07/14 23:16	
Methylene Chloride	ug/L	ND	1.0	03/07/14 23:16	
Naphthalene	ug/L	ND	10.0	03/07/14 23:16	
Propionitrile	ug/L	ND	150	03/07/14 23:16	
Styrene	ug/L	ND	1.0	03/07/14 23:16	
Tetrachloroethene	ug/L	ND	1.0	03/07/14 23:16	
Toluene	ug/L	ND	1.0	03/07/14 23:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/07/14 23:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/07/14 23:16	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/07/14 23:16	
Trichloroethene	ug/L	ND	1.0	03/07/14 23:16	
Trichlorofluoromethane	ug/L	ND	1.0	03/07/14 23:16	
Vinyl acetate	ug/L	ND	50.0	03/07/14 23:16	
Vinyl chloride	ug/L	ND	1.0	03/07/14 23:16	
Xylene (Total)	ug/L	ND	5.0	03/07/14 23:16	
1,2-Dichloroethane-d4 (S)	%	88	70-130	03/07/14 23:16	
4-Bromofluorobenzene (S)	%	101	70-130	03/07/14 23:16	
Toluene-d8 (S)	%	99	70-130	03/07/14 23:16	

LABORATORY CONTROL SAMPLE: 1152975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	70-130	
1,1,1-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.5	109	70-130	
1,1,2-Trichloroethane	ug/L	50	55.6	111	70-130	
1,1-Dichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethene	ug/L	50	47.8	96	70-132	
1,1-Dichloropropene	ug/L	50	51.3	103	70-130	
1,2,3-Trichloropropane	ug/L	50	56.1	112	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.0	90	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.1	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	70-130	
1,2-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
1,2-Dichloropropane	ug/L	50	52.8	106	70-130	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,3-Dichloropropane	ug/L	50	53.6	107	70-130	
1,4-Dichlorobenzene	ug/L	50	52.1	104	70-130	
2,2-Dichloropropane	ug/L	50	48.5	97	58-145	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

LABORATORY CONTROL SAMPLE: 1152975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Hexanone	ug/L	100	109	109	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-140	
Acetone	ug/L	100	93.6J	94	50-175	
Acetonitrile	ug/L	500	524	105	70-130	
Acrolein	ug/L	250	274	110	70-130	
Acrylonitrile	ug/L	250	261	105	70-143	
Allyl chloride	ug/L	50	46.4	93	70-130	
Benzene	ug/L	50	53.2	106	70-130	
Bromochloromethane	ug/L	50	53.9	108	70-130	
Bromodichloromethane	ug/L	50	50.5	101	70-130	
Bromoform	ug/L	50	56.9	114	70-130	
Bromomethane	ug/L	50	35.0	70	54-130	
Carbon disulfide	ug/L	50	51.2J	102	70-131	
Carbon tetrachloride	ug/L	50	50.1	100	70-132	
Chlorobenzene	ug/L	50	52.4	105	70-130	
Chloroethane	ug/L	50	47.5	95	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	44.1	88	64-130	
Chloroprene	ug/L	50	48.0	96	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	70-130	
Dibromochloromethane	ug/L	50	54.3	109	70-130	
Dibromomethane	ug/L	50	55.4	111	70-131	
Dichlorodifluoromethane	ug/L	50	51.7	103	56-130	
Ethyl methacrylate	ug/L	50	50.0	100	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
Iodomethane	ug/L	100	88.2	88	49-180	
Isobutanol	ug/L	1000	1250	125	70-130	
Methacrylonitrile	ug/L	500	518	104	70-130	
Methyl methacrylate	ug/L	50	56.3	113	70-130	
Methylene Chloride	ug/L	50	47.1	94	63-130	
Naphthalene	ug/L	50	45.7	91	70-138	
Propionitrile	ug/L	500	557	111	70-130	
Styrene	ug/L	50	54.8	110	70-130	
Tetrachloroethene	ug/L	50	52.7	105	70-130	
Toluene	ug/L	50	52.3	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	45.0J	90	70-141	
Trichloroethene	ug/L	50	52.1	104	70-130	
Trichlorofluoromethane	ug/L	50	48.6	97	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	51.7	103	69-130	
Xylene (Total)	ug/L	150	157	105	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: OEXT/26196 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1147867 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.10	03/08/14 16:28	
4,4'-DDE	ug/L	ND	0.10	03/08/14 16:28	
4,4'-DDT	ug/L	ND	0.10	03/08/14 16:28	
Aldrin	ug/L	ND	0.050	03/08/14 16:28	
alpha-BHC	ug/L	ND	0.050	03/08/14 16:28	
beta-BHC	ug/L	ND	0.050	03/08/14 16:28	
Chlordane (Technical)	ug/L	ND	0.50	03/08/14 16:28	
delta-BHC	ug/L	ND	0.050	03/08/14 16:28	
Dieldrin	ug/L	ND	0.075	03/08/14 16:28	
Endosulfan I	ug/L	ND	0.10	03/08/14 16:28	
Endosulfan II	ug/L	ND	0.10	03/08/14 16:28	
Endosulfan sulfate	ug/L	ND	0.10	03/08/14 16:28	
Endrin	ug/L	ND	0.10	03/08/14 16:28	
Endrin aldehyde	ug/L	ND	0.10	03/08/14 16:28	
gamma-BHC (Lindane)	ug/L	ND	0.050	03/08/14 16:28	
Heptachlor	ug/L	ND	0.050	03/08/14 16:28	
Heptachlor epoxide	ug/L	ND	0.075	03/08/14 16:28	
Methoxychlor	ug/L	ND	1.0	03/08/14 16:28	
Toxaphene	ug/L	ND	1.5	03/08/14 16:28	
Decachlorobiphenyl (S)	%	81	20-130	03/08/14 16:28	
Tetrachloro-m-xylene (S)	%	79	20-130	03/08/14 16:28	

LABORATORY CONTROL SAMPLE: 1147868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.21	86	20-150	
4,4'-DDE	ug/L	.25	0.21	85	20-150	
4,4'-DDT	ug/L	.25	0.22	90	20-150	
Aldrin	ug/L	.25	0.17	68	20-150	
alpha-BHC	ug/L	.25	0.20	83	20-150	
beta-BHC	ug/L	.25	0.20	82	20-150	
delta-BHC	ug/L	.25	0.22	88	20-150	
Dieldrin	ug/L	.25	0.20	82	20-150	
Endosulfan I	ug/L	.25	0.22	88	20-150	
Endosulfan II	ug/L	.25	0.21	86	20-150	
Endosulfan sulfate	ug/L	.25	0.22	87	20-150	
Endrin	ug/L	.25	0.25	100	20-150	
Endrin aldehyde	ug/L	.25	0.18	73	20-150	
gamma-BHC (Lindane)	ug/L	.25	0.20	82	20-150	
Heptachlor	ug/L	.25	0.18	72	20-150	
Heptachlor epoxide	ug/L	.25	0.21	86	20-150	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

LABORATORY CONTROL SAMPLE: 1147868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methoxychlor	ug/L	.74	0.63J	85	20-150	
Decachlorobiphenyl (S)	%			79	20-130	
Tetrachloro-m-xylene (S)	%			79	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147869 1147870

Parameter	Units	92191419001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	ug/L	ND	.5	.5	0.44	0.46	90	93	20-150	3	30	
4,4'-DDE	ug/L	ND	.5	.5	0.43	0.44	87	88	20-150	1	30	
4,4'-DDT	ug/L	ND	.5	.5	0.47	0.47	95	95	20-150	0	30	
Aldrin	ug/L	ND	.5	.5	0.37	0.38	74	78	20-150	4	30	
alpha-BHC	ug/L	ND	.5	.5	0.39	0.40	79	81	20-150	2	30	
beta-BHC	ug/L	ND	.5	.5	0.40	0.41	82	84	20-150	3	30	
delta-BHC	ug/L	ND	.5	.5	0.44	0.44	88	90	20-150	2	30	
Dieldrin	ug/L	ND	.5	.5	0.40	0.42	81	84	20-150	4	30	
Endosulfan I	ug/L	ND	.5	.5	0.43	0.44	86	90	20-150	4	30	
Endosulfan II	ug/L	ND	.5	.5	0.42	0.44	85	88	20-150	4	30	
Endosulfan sulfate	ug/L	ND	.5	.5	0.43	0.45	88	91	20-150	4	30	
Endrin	ug/L	ND	.5	.5	0.50	0.52	101	106	20-150	4	30	
Endrin aldehyde	ug/L	ND	.5	.5	0.34	0.32	69	64	20-150	8	30	
gamma-BHC (Lindane)	ug/L	ND	.5	.5	0.40	0.40	80	81	20-150	1	30	
Heptachlor	ug/L	ND	.5	.5	0.39	0.41	80	82	20-150	4	30	
Heptachlor epoxide	ug/L	ND	.5	.5	0.43	0.43	86	87	20-150	1	30	
Methoxychlor	ug/L	ND	1.5	1.5	1.3J	1.4J	90	92	20-150	3	30	
Decachlorobiphenyl (S)	%						62	64	20-130			
Tetrachloro-m-xylene (S)	%						68	73	20-130			

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: OEXT/26197 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1147871 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	03/03/14 18:28	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	03/03/14 18:28	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	03/03/14 18:28	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	03/03/14 18:28	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	03/03/14 18:28	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	03/03/14 18:28	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	03/03/14 18:28	
Decachlorobiphenyl (S)	%	87	10-132	03/03/14 18:28	

LABORATORY CONTROL SAMPLE: 1147872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	4.5	90	50-150	
PCB-1260 (Aroclor 1260)	ug/L	5	4.4	87	50-150	
Decachlorobiphenyl (S)	%			92	10-132	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147873 1147874

Parameter	Units	92191419004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	10	10	9.0	10.0	90	100	50-150	10	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	10	10	6.5	7.3	65	73	50-150	13	30	
Decachlorobiphenyl (S)	%						72	76	10-132			

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: OEXT/16337 Analysis Method: EPA 8151
QC Batch Method: EPA 8151 Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 844125 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-T	ug/L	ND	2.0	03/07/14 01:33	
2,4,5-TP (Silvex)	ug/L	ND	2.0	03/07/14 01:33	
2,4-D	ug/L	ND	2.0	03/07/14 01:33	
Dinoseb	ug/L	ND	1.0	03/07/14 01:33	
2,4-DCAA (S)	%	90	42-142	03/07/14 01:33	

LABORATORY CONTROL SAMPLE: 844126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-T	ug/L	1.2	1.2J	103	28-161	
2,4,5-TP (Silvex)	ug/L	1.2	1.3J	110	27-170	
2,4-D	ug/L	6	5.9	99	23-163	
Dinoseb	ug/L	1.2	1.2	96	24-151	
2,4-DCAA (S)	%			95	42-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 844127 844128

Parameter	Units	92191419001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-T	ug/L	ND	2.7	2.7	2.2J	2.5J	82	93	36-169	13	40	
2,4,5-TP (Silvex)	ug/L	ND	2.7	2.7	2.3J	2.7J	85	103	20-176	19	40	
2,4-D	ug/L	ND	13.3	13.3	12.6	13.9	94	104	17-167	10	40	
Dinoseb	ug/L	ND	2.7	2.7	2.7	3.0	101	113	10-163	12	40	
2,4-DCAA (S)	%						80	88	42-142			

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: OEXT/26191 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1147619 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	03/04/14 10:42	
1,3,5-Trinitrobenzene	ug/L	ND	10.0	03/04/14 10:42	
1,3-Dinitrobenzene	ug/L	ND	20.0	03/04/14 10:42	
1,4-Naphthoquinone	ug/L	ND	10.0	03/04/14 10:42	
1-Naphthalenamine	ug/L	ND	10.0	03/04/14 10:42	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	03/04/14 10:42	
2,4,5-Trichlorophenol	ug/L	ND	10.0	03/04/14 10:42	
2,4,6-Trichlorophenol	ug/L	ND	10.0	03/04/14 10:42	
2,4-Dichlorophenol	ug/L	ND	10.0	03/04/14 10:42	
2,4-Dimethylphenol	ug/L	ND	10.0	03/04/14 10:42	
2,4-Dinitrophenol	ug/L	ND	50.0	03/04/14 10:42	
2,4-Dinitrotoluene	ug/L	ND	10.0	03/04/14 10:42	
2,6-Dichlorophenol	ug/L	ND	10.0	03/04/14 10:42	
2,6-Dinitrotoluene	ug/L	ND	10.0	03/04/14 10:42	
2-Acetylaminofluorene	ug/L	ND	20.0	03/04/14 10:42	
2-Chloronaphthalene	ug/L	ND	10.0	03/04/14 10:42	
2-Chlorophenol	ug/L	ND	10.0	03/04/14 10:42	
2-Methylnaphthalene	ug/L	ND	10.0	03/04/14 10:42	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/04/14 10:42	
2-Naphthalenamine	ug/L	ND	10.0	03/04/14 10:42	
2-Nitroaniline	ug/L	ND	50.0	03/04/14 10:42	
2-Nitrophenol	ug/L	ND	10.0	03/04/14 10:42	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	03/04/14 10:42	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	03/04/14 10:42	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	03/04/14 10:42	
3-Methylcholanthrene	ug/L	ND	10.0	03/04/14 10:42	
3-Nitroaniline	ug/L	ND	50.0	03/04/14 10:42	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	03/04/14 10:42	
4-Aminobiphenyl	ug/L	ND	20.0	03/04/14 10:42	
4-Bromophenylphenyl ether	ug/L	ND	10.0	03/04/14 10:42	
4-Chloro-3-methylphenol	ug/L	ND	20.0	03/04/14 10:42	
4-Chloroaniline	ug/L	ND	20.0	03/04/14 10:42	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	03/04/14 10:42	
4-Nitroaniline	ug/L	ND	20.0	03/04/14 10:42	
4-Nitrophenol	ug/L	ND	50.0	03/04/14 10:42	
5-Nitro-o-toluidine	ug/L	ND	10.0	03/04/14 10:42	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	03/04/14 10:42	
Acenaphthene	ug/L	ND	10.0	03/04/14 10:42	
Acenaphthylene	ug/L	ND	10.0	03/04/14 10:42	
Acetophenone	ug/L	ND	10.0	03/04/14 10:42	
Anthracene	ug/L	ND	10.0	03/04/14 10:42	
Benzo(a)anthracene	ug/L	ND	10.0	03/04/14 10:42	
Benzo(a)pyrene	ug/L	ND	10.0	03/04/14 10:42	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

METHOD BLANK: 1147619 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(b)fluoranthene	ug/L	ND	10.0	03/04/14 10:42	
Benzo(g,h,i)perylene	ug/L	ND	10.0	03/04/14 10:42	
Benzo(k)fluoranthene	ug/L	ND	10.0	03/04/14 10:42	
Benzyl alcohol	ug/L	ND	20.0	03/04/14 10:42	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	03/04/14 10:42	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	03/04/14 10:42	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	03/04/14 10:42	
bis(2-Ethylhexyl)phthalate	ug/L	ND	15.0	03/04/14 10:42	
Butylbenzylphthalate	ug/L	ND	10.0	03/04/14 10:42	
Chlorobenzilate	ug/L	ND	10.0	03/04/14 10:42	
Chrysene	ug/L	ND	10.0	03/04/14 10:42	
Di-n-butylphthalate	ug/L	ND	10.0	03/04/14 10:42	
Di-n-octylphthalate	ug/L	ND	10.0	03/04/14 10:42	
Diallate	ug/L	ND	10.0	03/04/14 10:42	
Dibenz(a,h)anthracene	ug/L	ND	10.0	03/04/14 10:42	
Dibenzofuran	ug/L	ND	10.0	03/04/14 10:42	
Diethylphthalate	ug/L	ND	6000	03/04/14 10:42	
Dimethoate	ug/L	ND	20.0	03/04/14 10:42	
Dimethylphthalate	ug/L	ND	10.0	03/04/14 10:42	
Diphenylamine	ug/L	ND	10.0	03/04/14 10:42	
Disulfoton	ug/L	ND	10.0	03/04/14 10:42	
Ethyl methanesulfonate	ug/L	ND	20.0	03/04/14 10:42	
Famphur	ug/L	ND	20.0	03/04/14 10:42	
Fluoranthene	ug/L	ND	10.0	03/04/14 10:42	
Fluorene	ug/L	ND	10.0	03/04/14 10:42	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	03/04/14 10:42	
Hexachlorobenzene	ug/L	ND	10.0	03/04/14 10:42	
Hexachlorocyclopentadiene	ug/L	ND	10.0	03/04/14 10:42	
Hexachloroethane	ug/L	ND	10.0	03/04/14 10:42	
Hexachloropropene	ug/L	ND	10.0	03/04/14 10:42	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	03/04/14 10:42	
Isodrin	ug/L	ND	20.0	03/04/14 10:42	
Isophorone	ug/L	ND	10.0	03/04/14 10:42	
Isosafrole	ug/L	ND	10.0	03/04/14 10:42	
Kepone	ug/L	ND	20.0	03/04/14 10:42	
Methapyrilene	ug/L	ND	100	03/04/14 10:42	
Methyl methanesulfonate	ug/L	ND	10.0	03/04/14 10:42	
Methyl parathion	ug/L	ND	10.0	03/04/14 10:42	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	03/04/14 10:42	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	03/04/14 10:42	
N-Nitrosodiethylamine	ug/L	ND	20.0	03/04/14 10:42	
N-Nitrosodimethylamine	ug/L	ND	10.0	03/04/14 10:42	
N-Nitrosodiphenylamine	ug/L	ND	10.0	03/04/14 10:42	
N-Nitrosomethylethylamine	ug/L	ND	10.0	03/04/14 10:42	
N-Nitrosopiperidine	ug/L	ND	20.0	03/04/14 10:42	
N-Nitrosopyrrolidine	ug/L	ND	10.0	03/04/14 10:42	
Nitrobenzene	ug/L	ND	10.0	03/04/14 10:42	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

METHOD BLANK: 1147619 Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	03/04/14 10:42	
O-Toluidine	ug/L	ND	10.0	03/04/14 10:42	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	03/04/14 10:42	
p-Phenylenediamine	ug/L	ND	10.0	03/04/14 10:42	
Parathion (Ethyl parathion)	ug/L	ND	10.0	03/04/14 10:42	
Pentachlorobenzene	ug/L	ND	10.0	03/04/14 10:42	
Pentachloronitrobenzene	ug/L	ND	20.0	03/04/14 10:42	
Pentachlorophenol	ug/L	ND	25.0	03/04/14 10:42	
Phenacetin	ug/L	ND	20.0	03/04/14 10:42	
Phenanthrene	ug/L	ND	10.0	03/04/14 10:42	
Phenol	ug/L	ND	10.0	03/04/14 10:42	
Phorate	ug/L	ND	10.0	03/04/14 10:42	
Pronamide	ug/L	ND	10.0	03/04/14 10:42	
Pyrene	ug/L	ND	10.0	03/04/14 10:42	
Safrole	ug/L	ND	10.0	03/04/14 10:42	
Thionazin	ug/L	ND	20.0	03/04/14 10:42	
2,4,6-Tribromophenol (S)	%	105	27-110	03/04/14 10:42	
2-Fluorobiphenyl (S)	%	72	27-110	03/04/14 10:42	
2-Fluorophenol (S)	%	41	12-110	03/04/14 10:42	
Nitrobenzene-d5 (S)	%	70	21-110	03/04/14 10:42	
Phenol-d6 (S)	%	29	10-110	03/04/14 10:42	
Terphenyl-d14 (S)	%	96	31-107	03/04/14 10:42	

LABORATORY CONTROL SAMPLE: 1147620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	39.6	79	17-115	
1,3,5-Trinitrobenzene	ug/L	50	44.9	90	17-115	
1,3-Dinitrobenzene	ug/L	50	49.0	98	17-115	
1,4-Naphthoquinone	ug/L	50	47.3	95	17-115	
1-Naphthalenamine	ug/L	50	31.7	63	17-115	
2,3,4,6-Tetrachlorophenol	ug/L	50	106	212	17-115	L3
2,4,5-Trichlorophenol	ug/L	50	44.9	90	23-116	
2,4,6-Trichlorophenol	ug/L	50	40.7	81	21-114	
2,4-Dichlorophenol	ug/L	50	34.0	68	22-120	
2,4-Dimethylphenol	ug/L	50	35.3	71	15-109	
2,4-Dinitrophenol	ug/L	250	232	93	10-103	
2,4-Dinitrotoluene	ug/L	50	51.2	102	24-119	
2,6-Dichlorophenol	ug/L	50	47.6	95	17-115	
2,6-Dinitrotoluene	ug/L	50	51.5	103	25-116	
2-Acetylaminofluorene	ug/L	50	49.5	99	17-115	
2-Chloronaphthalene	ug/L	50	37.7	75	18-110	
2-Chlorophenol	ug/L	50	39.8	80	10-104	
2-Methylnaphthalene	ug/L	50	35.9	72	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	34.8	70	13-110	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

LABORATORY CONTROL SAMPLE: 1147620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Naphthalenamine	ug/L	50	37.1	74	17-115	
2-Nitroaniline	ug/L	100	83.3	83	20-117	
2-Nitrophenol	ug/L	50	36.8	74	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	32.6	65	14-110	
3,3'-Dichlorobenzidine	ug/L	250	103	41	13-131	
3,3'-Dimethylbenzidine	ug/L	100	52.8	53	17-115	
3-Methylcholanthrene	ug/L	50	47.0	94	17-115	
3-Nitroaniline	ug/L	100	91.9	92	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	95.9	96	13-119	
4-Aminobiphenyl	ug/L	50	32.5	65	17-115	
4-Bromophenylphenyl ether	ug/L	50	48.0	96	23-120	
4-Chloro-3-methylphenol	ug/L	100	71.1	71	21-119	
4-Chloroaniline	ug/L	100	67.2	67	10-122	
4-Chlorophenylphenyl ether	ug/L	50	46.2	92	22-112	
4-Nitroaniline	ug/L	100	99.6	100	14-118	
4-Nitrophenol	ug/L	250	111	44	10-110	
5-Nitro-o-toluidine	ug/L	50	49.0	98	17-115	
7,12-Dimethylbenz(a)anthracene	ug/L	50	46.0	92	50-150	
Acenaphthene	ug/L	50	37.8	76	20-105	
Acenaphthylene	ug/L	50	40.2	80	23-106	
Acetophenone	ug/L	50	38.7	77	17-115	
Anthracene	ug/L	50	43.8	88	25-120	
Benzo(a)anthracene	ug/L	50	44.8	90	21-128	
Benzo(a)pyrene	ug/L	50	48.5	97	25-116	
Benzo(b)fluoranthene	ug/L	50	46.0	92	23-117	
Benzo(g,h,i)perylene	ug/L	50	48.7	97	17-128	
Benzo(k)fluoranthene	ug/L	50	43.4	87	25-127	
Benzyl alcohol	ug/L	100	69.0	69	10-101	
bis(2-Chloroethoxy)methane	ug/L	50	40.1	80	19-107	
bis(2-Chloroethyl) ether	ug/L	50	41.8	84	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	34.8	70	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	41.1	82	16-123	
Butylbenzylphthalate	ug/L	50	46.1	92	20-118	
Chlorobenzilate	ug/L	50	49.1	98	17-115	
Chrysene	ug/L	50	46.5	93	24-125	
Di-n-butylphthalate	ug/L	50	44.0	88	23-115	
Di-n-octylphthalate	ug/L	50	40.0	80	20-115	
Diallate	ug/L	50	40.5	81	17-115	
Dibenz(a,h)anthracene	ug/L	50	50.4	101	18-131	
Dibenzofuran	ug/L	50	36.8	74	23-106	
Diethylphthalate	ug/L	50	41.1J	82	24-115	
Dimethoate	ug/L	50	45.3	91	17-115	
Dimethylphthalate	ug/L	50	40.0	80	22-113	
Diphenylamine	ug/L	50	35.0	70	17-115	
Disulfoton	ug/L	50	42.4	85	17-115	
Ethyl methanesulfonate	ug/L	50	39.3	79	17-115	
Famphur	ug/L	100	69.4	69	17-115	
Fluoranthene	ug/L	50	50.6	101	24-125	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

LABORATORY CONTROL SAMPLE: 1147620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	50	42.5	85	24-114	
Hexachloro-1,3-butadiene	ug/L	50	30.7	61	10-110	
Hexachlorobenzene	ug/L	50	45.3	91	22-127	
Hexachlorocyclopentadiene	ug/L	50	55.4	111	10-110	L3
Hexachloroethane	ug/L	50	38.4	77	10-110	
Hexachloropropene	ug/L	50	48.3	97	17-115	
Indeno(1,2,3-cd)pyrene	ug/L	50	51.6	103	18-130	
Isodrin	ug/L	50	49.7	99	17-115	
Isophorone	ug/L	50	35.1	70	23-114	
Isosafrole	ug/L	50	38.3	77	17-115	
Kepone	ug/L	100	60.9	61	17-115	
Methapyrilene	ug/L	50	33.4J	67	17-115	
Methyl methanesulfonate	ug/L	50	31.2	62	17-115	
Methyl parathion	ug/L	50	50.5	101	17-115	
N-Nitroso-di-n-butylamine	ug/L	50	38.2	76	17-115	
N-Nitroso-di-n-propylamine	ug/L	50	38.0	76	21-114	
N-Nitrosodiethylamine	ug/L	50	40.8	82	17-115	
N-Nitrosodimethylamine	ug/L	50	19.7	39	10-110	
N-Nitrosodiphenylamine	ug/L	50	35.0	70	24-123	
N-Nitrosomethylethylamine	ug/L	50	34.0	68	17-115	
N-Nitrosopiperidine	ug/L	50	37.4	75	17-115	
N-Nitrosopyrrolidine	ug/L	50	37.7	75	17-115	
Nitrobenzene	ug/L	50	31.2	62	16-106	
O,O,O-Triethylphosphorothioate	ug/L	50	47.6	95	17-115	
O-Toluidine	ug/L	50	33.0	66	17-115	
P-Dimethylaminoazobenzene	ug/L	100	22.9	23	17-115	
p-Phenylenediamine	ug/L	50	66.1	132	17-115	L3
Parathion (Ethyl parathion)	ug/L	50	48.7	97	17-115	
Pentachlorobenzene	ug/L	50	49.4	99	17-115	
Pentachloronitrobenzene	ug/L	50	54.7	109	17-115	
Pentachlorophenol	ug/L	250	106	42	10-123	
Phenacetin	ug/L	50	53.3	107	17-115	
Phenanthrene	ug/L	50	42.2	84	25-119	
Phenol	ug/L	50	22.3	45	10-110	
Phorate	ug/L	50	44.9	90	17-115	
Pronamide	ug/L	50	53.2	106	17-115	
Pyrene	ug/L	50	42.8	86	22-127	
Safrole	ug/L	50	48.5	97	17-115	
Thionazin	ug/L	50	41.4	83	17-115	
2,4,6-Tribromophenol (S)	%			124	27-110	S0
2-Fluorobiphenyl (S)	%			72	27-110	
2-Fluorophenol (S)	%			47	12-110	
Nitrobenzene-d5 (S)	%			58	21-110	
Phenol-d6 (S)	%			35	10-110	
Terphenyl-d14 (S)	%			87	31-107	

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(704)875-9092

QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147621 1147622

Parameter	Units	92191419003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4,5-Tetrachlorobenzene	ug/L	ND	100	100	77.8	77.8	78	78	50-150	0	30	
1,3,5-Trinitrobenzene	ug/L	ND	100	100	68.6	69.7	69	70	50-150	2	30	
1,3-Dinitrobenzene	ug/L	ND	100	100	78.0	74.7	78	75	50-150	4	30	
1,4-Naphthoquinone	ug/L	ND	100	100	96.0	94.7	96	95	50-150	1	30	
1-Naphthalenamine	ug/L	ND	100	100	40.2	34.5	40	34	50-150	15	30	M1
2,3,4,6-Tetrachlorophenol	ug/L	ND	100	100	163	149	163	149	50-150	9	30	M0
2,4,5-Trichlorophenol	ug/L	ND	100	100	73.3	72.7	73	73	19-105	1	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	70.0	70.0	70	70	13-108	0	30	
2,4-Dichlorophenol	ug/L	ND	100	100	58.8	59.9	59	60	29-111	2	30	
2,4-Dimethylphenol	ug/L	ND	100	100	61.9	63.5	62	64	21-103	3	30	
2,4-Dinitrophenol	ug/L	ND	500	500	292	286	58	57	10-109	2	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	77.8	74.0	78	74	27-104	5	30	
2,6-Dichlorophenol	ug/L	ND	100	100	83.9	86.4	84	86	50-150	3	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	79.9	79.3	80	79	28-101	1	30	
2-Acetylaminofluorene	ug/L	ND	100	100	86.5	78.9	86	79	50-150	9	30	
2-Chloronaphthalene	ug/L	ND	100	100	67.9	68.0	68	68	14-102	0	30	
2-Chlorophenol	ug/L	ND	100	100	69.4	70.9	69	71	16-110	2	30	
2-Methylnaphthalene	ug/L	ND	100	100	60.0	61.5	60	61	13-110	2	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	61.9	65.4	62	65	19-110	5	30	
2-Naphthalenamine	ug/L	ND	100	100	24.8	22.6	25	23	50-150	9	30	M1
2-Nitroaniline	ug/L	ND	200	200	127	121	64	61	26-103	5	30	
2-Nitrophenol	ug/L	ND	100	100	65.0	64.0	65	64	20-110	1	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	58.3	60.2	58	60	20-110	3	30	
3,3'-Dichlorobenzidine	ug/L	ND	500	500	134	136	27	27	25-112	1	30	
3,3'-Dimethylbenzidine	ug/L	ND	200	200	ND	ND	3	4	50-150		30	M1
3-Methylcholanthrene	ug/L	ND	100	100	77.2	76.3	77	76	50-150	1	30	
3-Nitroaniline	ug/L	ND	200	200	135	127	67	64	29-110	6	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	128	133	64	66	10-117	4	30	
4-Aminobiphenyl	ug/L	ND	100	100	47.8	44.2	48	44	50-150	8	30	M1
4-Bromophenylphenyl ether	ug/L	ND	100	100	76.0	82.6	76	83	20-105	8	30	
4-Chloro-3-methylphenol	ug/L	ND	200	200	110	111	55	56	22-110	1	30	
4-Chloroaniline	ug/L	ND	200	200	99.5	101	50	51	20-100	2	30	
4-Chlorophenylphenyl ether	ug/L	ND	100	100	75.3	75.3	75	75	19-102	0	30	
4-Nitroaniline	ug/L	ND	200	200	147	124	73	62	29-110	17	30	
4-Nitrophenol	ug/L	ND	500	500	227	186	45	37	10-110	20	30	
5-Nitro-o-toluidine	ug/L	ND	100	100	76.0	68.3	76	68	50-150	11	30	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	100	100	71.8	72.2	72	72	50-150	1	30	
Acenaphthene	ug/L	ND	100	100	64.3	64.2	64	64	17-100	0	30	
Acenaphthylene	ug/L	ND	100	100	68.6	67.7	69	68	21-100	1	30	
Acetophenone	ug/L	ND	100	100	60.5	61.9	61	62	50-150	2	30	
Anthracene	ug/L	ND	100	100	71.3	70.9	71	71	24-109	1	30	
Benzo(a)anthracene	ug/L	ND	100	100	69.7	67.9	70	68	22-117	3	30	
Benzo(a)pyrene	ug/L	ND	100	100	74.2	75.4	74	75	23-104	2	30	
Benzo(b)fluoranthene	ug/L	ND	100	100	70.1	70.2	70	70	23-103	0	30	
Benzo(g,h,i)perylene	ug/L	ND	100	100	76.1	78.8	76	79	18-111	4	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	66.0	67.9	66	68	22-113	3	30	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147621 1147622

Parameter	Units	92191419003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzyl alcohol	ug/L	ND	200	200	123	125	61	63	19-101	2	30	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	71.5	71.2	71	71	22-110	0	30	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	67.0	69.7	67	70	16-110	4	30	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	56.7	56.2	57	56	14-110	1	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	64.4	61.2	64	61	23-102	5	30	
Butylbenzylphthalate	ug/L	ND	100	100	71.3	69.5	71	69	25-110	3	30	
Chlorobenzilate	ug/L	ND	100	100	76.8	78.6	77	79	50-150	2	30	
Chrysene	ug/L	ND	100	100	72.8	72.3	73	72	23-115	1	30	
Di-n-butylphthalate	ug/L	ND	100	100	69.9	65.4	70	65	26-110	7	30	
Di-n-octylphthalate	ug/L	ND	100	100	68.1	60.5	68	60	22-110	12	30	
Diallate	ug/L	ND	100	100	64.8	71.0	65	71	50-150	9	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	79.6	81.2	80	81	21-112	2	30	
Dibenzofuran	ug/L	ND	100	100	60.6	60.4	61	60	19-102	0	30	
Diethylphthalate	ug/L	ND	100	100	62.2J	60.6J	62	61	29-110	2	30	
Dimethoate	ug/L	ND	100	100	76.6	69.7	77	70	50-150	9	30	
Dimethylphthalate	ug/L	ND	100	100	61.4	61.8	61	62	27-110	1	30	
Diphenylamine	ug/L	ND	100	100	54.0	58.2	54	58	50-150	7	30	
Disulfoton	ug/L	ND	100	100	68.3	70.8	68	71	50-150	4	30	
Ethyl methanesulfonate	ug/L	ND	100	100	67.9	69.5	68	70	50-150	2	30	
Famphur	ug/L	ND	200	200	173	190	86	95	50-150	10	30	
Fluoranthene	ug/L	ND	100	100	85.7	72.2	86	72	23-112	17	30	
Fluorene	ug/L	ND	100	100	69.5	66.9	69	67	22-104	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	57.2	57.4	57	57	10-110	0	30	
Hexachlorobenzene	ug/L	ND	100	100	72.3	77.1	72	77	21-116	6	30	
Hexachlorocyclopentadiene	ug/L	ND	100	100	88.6	89.6	89	90	10-110	1	30	
Hexachloroethane	ug/L	ND	100	100	68.2	68.8	68	69	10-110	1	30	
Hexachloropropene	ug/L	ND	100	100	88.3	89.5	88	89	50-150	1	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	80.9	83.8	81	84	20-113	4	30	
Isodrin	ug/L	ND	100	100	81.6	79.6	82	80	50-150	3	30	
Isophorone	ug/L	ND	100	100	59.4	60.4	59	60	50-150	2	30	
Isosafrole	ug/L	ND	100	100	70.0	71.2	70	71	50-150	2	30	
Kepone	ug/L	ND	200	200	95.9	108	48	54	50-150	12	30	M1
Methapyrilene	ug/L	ND	100	100	ND	ND	2	2	50-150		30	M1
Methyl methanesulfonate	ug/L	ND	100	100	63.0	63.9	63	64	50-150	2	30	
Methyl parathion	ug/L	ND	100	100	82.6	74.4	83	74	50-150	11	30	
N-Nitroso-di-n-butylamine	ug/L	ND	100	100	68.9	68.8	65	65	50-150	0	30	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	57.9	58.1	58	58	21-105	0	30	
N-Nitrosodiethylamine	ug/L	ND	100	100	71.0	71.0	71	71	50-150	0	30	
N-Nitrosodimethylamine	ug/L	ND	100	100	44.7	43.9	45	44	10-110	2	30	
N-Nitrosodiphenylamine	ug/L	ND	100	100	54.0	58.2	54	58	23-107	7	30	
N-Nitrosomethylethylamine	ug/L	ND	100	100	63.3	62.8	63	63	50-150	1	30	
N-Nitrosopiperidine	ug/L	ND	100	100	66.8	66.8	67	67	50-150	0	30	
N-Nitrosopyrrolidine	ug/L	ND	100	100	57.8	59.6	58	60	50-150	3	30	
Nitrobenzene	ug/L	ND	100	100	56.3	53.8	56	54	20-110	5	30	
O,O,O-Triethylphosphorothioate	ug/L	ND	100	100	87.0	88.4	87	88	50-150	2	30	
O-Toluidine	ug/L	ND	100	100	39.2	39.5	39	40	50-150	1	30	M1

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147621 1147622

Parameter	Units	92191419003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
P-Dimethylaminoazobenzene	ug/L	ND	200	200	35.5	35.8	18	18	50-150	1	30	M1
p-Phenylenediamine	ug/L	ND	100	100	94.0	74.7	94	75	50-150	23	30	
Parathion (Ethyl parathion)	ug/L	ND	100	100	84.0	73.1	84	73	50-150	14	30	
Pentachlorobenzene	ug/L	ND	100	100	88.2	87.8	88	88	50-150	0	30	
Pentachloronitrobenzene	ug/L	ND	100	100	88.4	89.9	88	90	50-150	2	30	
Pentachlorophenol	ug/L	ND	500	500	135	136	27	27	10-118	0	30	
Phenacetin	ug/L	ND	100	100	85.5	76.6	85	77	50-150	11	30	
Phenanthrene	ug/L	ND	100	100	68.1	67.8	68	68	24-106	0	30	
Phenol	ug/L	ND	100	100	47.4	47.9	47	48	12-110	1	30	
Phorate	ug/L	ND	100	100	68.6	69.7	69	70	50-150	2	30	
Pronamide	ug/L	ND	100	100	82.7	81.4	83	81	50-150	2	30	
Pyrene	ug/L	ND	100	100	64.9	68.3	65	68	24-114	5	30	
Safrole	ug/L	ND	100	100	83.5	84.5	84	85	50-150	1	30	
Thionazin	ug/L	ND	100	100	66.4	63.0	66	63	50-150	5	30	
2,4,6-Tribromophenol (S)	%						102	107	27-110			
2-Fluorobiphenyl (S)	%						70	70	27-110			
2-Fluorophenol (S)	%						56	56	12-110			
Nitrobenzene-d5 (S)	%						55	54	21-110			
Phenol-d6 (S)	%						45	46	10-110			
Terphenyl-d14 (S)	%						71	76	31-107			

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: WET/29763 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1148041 — Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	02/28/14 15:35	

LABORATORY CONTROL SAMPLE: 1148042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	513J	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148043 — 1148044

Parameter	Units	92191394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	491J	491J	98	98	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148045 — 1148046

Parameter	Units	92191216003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	506J	506J	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

QC Batch: WETA/18294 — Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E — Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

METHOD BLANK: 1153435 — Matrix: Water
Associated Lab Samples: 92191419001, 92191419002, 92191419003, 92191419004, 92191419005, 92191419006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	03/10/14 13:18	

LABORATORY CONTROL SAMPLE: 1153436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	102	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1153439 — 1153440

Parameter	Units	92191102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	ND	100	100	120	114	118	111	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1153463 — 1153464

Parameter	Units	92191394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	5.5J	100	100	111	114	106	108	75-125	2	20	

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QUALIFIERS

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92191419001	**3902-MW1R**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191419002	**3902-MW2R**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191419003	**3902-MW3R**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191419004	**3902-MW4**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191419005	**3902-MW5**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191419006	**3902-MW6**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191419001	**3902-MW1R**	EPA 3510	OEXT/26197	EPA 8082	GCSV/16822
92191419002	**3902-MW2R**	EPA 3510	OEXT/26197	EPA 8082	GCSV/16822
92191419003	**3902-MW3R**	EPA 3510	OEXT/26197	EPA 8082	GCSV/16822
92191419004	**3902-MW4**	EPA 3510	OEXT/26197	EPA 8082	GCSV/16822
92191419005	**3902-MW5**	EPA 3510	OEXT/26197	EPA 8082	GCSV/16822
92191419006	**3902-MW6**	EPA 3510	OEXT/26197	EPA 8082	GCSV/16822
92191419001	**3902-MW1R**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191419002	**3902-MW2R**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191419003	**3902-MW3R**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191419004	**3902-MW4**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191419005	**3902-MW5**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191419006	**3902-MW6**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191419001	**3902-MW1R**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191419002	**3902-MW2R**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191419003	**3902-MW3R**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191419004	**3902-MW4**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191419005	**3902-MW5**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191419006	**3902-MW6**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191419001	**3902-MW1R**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191419002	**3902-MW2R**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191419003	**3902-MW3R**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191419004	**3902-MW4**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191419005	**3902-MW5**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191419006	**3902-MW6**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191419001	**3902-MW1R**	EPA 3510	OEXT/26191	EPA 8270	MSSV/8808
92191419002	**3902-MW2R**	EPA 3510	OEXT/26191	EPA 8270	MSSV/8808
92191419003	**3902-MW3R**	EPA 3510	OEXT/26191	EPA 8270	MSSV/8808
92191419004	**3902-MW4**	EPA 3510	OEXT/26191	EPA 8270	MSSV/8808
92191419005	**3902-MW5**	EPA 3510	OEXT/26191	EPA 8270	MSSV/8808
92191419006	**3902-MW6**	EPA 3510	OEXT/26191	EPA 8270	MSSV/8808
92191419001	**3902-MW1R**	EPA 8260	MSV/26022		
92191419002	**3902-MW2R**	EPA 8260	MSV/25948		
92191419003	**3902-MW3R**	EPA 8260	MSV/25948		
92191419004	**3902-MW4**	EPA 8260	MSV/25948		
92191419005	**3902-MW5**	EPA 8260	MSV/25948		
92191419006	**3902-MW6**	EPA 8260	MSV/25948		
92191419007	**3902-NES-1**	EPA 8260	MSV/25948		
92191419001	**3902-MW1R**	SM 4500-S2D	WET/29763		
92191419002	**3902-MW2R**	SM 4500-S2D	WET/29763		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Butner Landfill MW 660.1302.12
Pace Project No.: 92191419

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92191419003	**3902-MW3R**	SM 4500-S2D	WET/29763		
92191419004	**3902-MW4**	SM 4500-S2D	WET/29763		
92191419005	**3902-MW5**	SM 4500-S2D	WET/29763		
92191419006	**3902-MW6**	SM 4500-S2D	WET/29763		
92191419001	**3902-MW1R**	SM 4500-CN-E	WETA/18294		
92191419002	**3902-MW2R**	SM 4500-CN-E	WETA/18294		
92191419003	**3902-MW3R**	SM 4500-CN-E	WETA/18294		
92191419004	**3902-MW4**	SM 4500-CN-E	WETA/18294		
92191419005	**3902-MW5**	SM 4500-CN-E	WETA/18294		
92191419006	**3902-MW6**	SM 4500-CN-E	WETA/18294		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: December 16, 2013 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.13**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Joyce Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1301 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 3.4 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AD 02/27/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	JDB	**Date:**	2/27/14
SRF Review:	JJ	**Date:**	2/28/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92191419

92191419

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Joyce Engineering
Address:	2211 West Meadowview Rd
	Greensboro, NC 27407
Email To:	aeverhart@joyceengineering.com
Phone:	(336) 323-0092 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Alex Everhart
Copy To:	Van Burbach
Purchase Order No.	
Client Project ID:	Butner Landfill MW 660.1302.12 T04
Container Order Number:	

Section C — Invoice Information:

Attention:	Jason Falls
Company Name:	Granville County, Solid Waste
Address:	P.O. Box 906, Oxford NC 27565

Regulatory Agency:

State / Location: North Carolina

3566-02

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: NC App II Metals	NC App II 8260	Cyanide	Sulfide	8270 Semi-VOA	8081 Pesticides	8082 PCB	8151 Herbicides					Residual Chlorine (Y/N)	9291419
1	3902-MW1R	WT	G			2/24/14	0915		14			X	X					X	X	X	X	X	X	X	X						001
2	3902-MW2R	WT	G				1330					X	X					X	X	X	X	X	X	X	X						W2
3	3902-MW3R	WT	G				1320					X	X					X	X	X	X	X	X	X	X						W3
4	3902-MW4	WT	G				1230					X	X					X	X	X	X	X	X	X	X						W4
5	3902-MW5	WT	G				1125					X	X					X	X	X	X	X	X	X	X						W5
6	3902-MW6	WT	G				1030					X	X					X	X	X	X	X	X	X	X						W6
7	3902-NES-1	WT	G				1420		3				X						X												W7
8																															
9																															
10																															
11																															
12																															

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] Joyce	2/27/14	1155	[signature]	2/27/14	11:55				
	[signature]	2/27/14	1505	[signature] Joyce	2/27/14	1605	3.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Adam Cox / Amanda Freeman	
SIGNATURE of SAMPLER:	Adam Cox, Amanda Freeman	DATE Signed: 2/26/14

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Services, Inc.
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March 05, 2014

Mr. Van Burbach
Joyce Engineering-NC
2211 West Meadowview Rd
Boone Bldg, Suite 101
Greensboro, NC 27407

RE: Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Dear Mr. Burbach:
Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92191399001	**3902-SW1**	Water	02/24/14 11:15	02/27/14 15:05
92191399002	**3902-SW2**	Water	02/24/14 12:40	02/27/14 15:05

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SAMPLE ANALYTE COUNT

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92191399001	**3902-SW1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	50	PASI-C
92191399002	**3902-SW2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	50	PASI-C

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SUMMARY OF DETECTION

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92191399001	**3902-SW1**					
EPA 6010	Barium	29.0J	ug/L	100	03/04/14 23:08	
92191399002	**3902-SW2**					
EPA 6010	Barium	30.4J	ug/L	100	03/04/14 23:13	

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ANALYTICAL RESULTS

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Sample: 3902-SW1 **Lab ID: 92191399001** Collected: 02/24/14 11:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-38-2	
Barium	**29.0J**	ug/L	100	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:08	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:08	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:08	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/04/14 23:08	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/04/14 23:08	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:08	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/02/14 22:51	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/02/14 22:51	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		03/02/14 22:51	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/02/14 22:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/02/14 22:51	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/02/14 22:51	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/02/14 22:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/02/14 22:51	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/02/14 22:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/02/14 22:51	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/02/14 22:51	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/02/14 22:51	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/02/14 22:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/02/14 22:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/02/14 22:51	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/02/14 22:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/02/14 22:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/02/14 22:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/02/14 22:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/02/14 22:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/02/14 22:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/02/14 22:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/02/14 22:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/02/14 22:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/02/14 22:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/02/14 22:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/02/14 22:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/02/14 22:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/02/14 22:51	10061-02-6	

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ANALYTICAL RESULTS

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Sample: 3902-SW1 **Lab ID: 92191399001** Collected: 02/24/14 11:15 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/02/14 22:51	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/02/14 22:51	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/02/14 22:51	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/02/14 22:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/02/14 22:51	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/02/14 22:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/02/14 22:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/02/14 22:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/02/14 22:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/02/14 22:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/02/14 22:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/02/14 22:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/02/14 22:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/02/14 22:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/02/14 22:51	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/02/14 22:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/02/14 22:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/02/14 22:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/02/14 22:51	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/02/14 22:51	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/02/14 22:51	2037-26-5	

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ANALYTICAL RESULTS

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Sample: 3902-SW2 **Lab ID: 92191399002** Collected: 02/24/14 12:40 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-38-2	
Barium	**30.4J**	ug/L	100	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:13	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/04/14 23:13	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:13	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/04/14 23:13	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/04/14 23:13	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/04/14 23:13	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		03/02/14 23:07	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/02/14 23:07	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		03/02/14 23:07	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/02/14 23:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/02/14 23:07	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/02/14 23:07	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/02/14 23:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/02/14 23:07	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/02/14 23:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/02/14 23:07	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/02/14 23:07	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/02/14 23:07	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/02/14 23:07	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/02/14 23:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/02/14 23:07	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/02/14 23:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/02/14 23:07	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/02/14 23:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/02/14 23:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/02/14 23:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/02/14 23:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/02/14 23:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/02/14 23:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/02/14 23:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/02/14 23:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/02/14 23:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/02/14 23:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/02/14 23:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/02/14 23:07	10061-02-6	

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ANALYTICAL RESULTS

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Sample: 3902-SW2 **Lab ID: 92191399002** Collected: 02/24/14 12:40 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/02/14 23:07	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/02/14 23:07	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/02/14 23:07	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/02/14 23:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/02/14 23:07	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/02/14 23:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/02/14 23:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/02/14 23:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/02/14 23:07	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/02/14 23:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/02/14 23:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/02/14 23:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/02/14 23:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/02/14 23:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/02/14 23:07	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/02/14 23:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/02/14 23:07	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/02/14 23:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/02/14 23:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/02/14 23:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/02/14 23:07	2037-26-5	

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QUALITY CONTROL DATA

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

QC Batch: MPRP/15332
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92191399001, 92191399002

METHOD BLANK: 1147590
Matrix: Water
Associated Lab Samples: 92191399001, 92191399002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/04/14 22:42	
Arsenic	ug/L	ND	10.0	03/04/14 22:42	
Barium	ug/L	ND	100	03/04/14 22:42	
Beryllium	ug/L	ND	1.0	03/04/14 22:42	
Cadmium	ug/L	ND	1.0	03/04/14 22:42	
Chromium	ug/L	ND	10.0	03/04/14 22:42	
Cobalt	ug/L	ND	10.0	03/04/14 22:42	
Copper	ug/L	ND	10.0	03/04/14 22:42	
Lead	ug/L	ND	10.0	03/04/14 22:42	
Nickel	ug/L	ND	50.0	03/04/14 22:42	
Selenium	ug/L	ND	10.0	03/04/14 22:42	
Silver	ug/L	ND	10.0	03/04/14 22:42	
Thallium	ug/L	ND	5.5	03/04/14 22:42	
Vanadium	ug/L	ND	25.0	03/04/14 22:42	
Zinc	ug/L	ND	10.0	03/04/14 22:42	

LABORATORY CONTROL SAMPLE: 1147591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	484	97	80-120	
Arsenic	ug/L	500	462	92	80-120	
Barium	ug/L	500	477	95	80-120	
Beryllium	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	479	96	80-120	
Chromium	ug/L	500	481	96	80-120	
Cobalt	ug/L	500	480	96	80-120	
Copper	ug/L	500	474	95	80-120	
Lead	ug/L	500	479	96	80-120	
Nickel	ug/L	500	479	96	80-120	
Selenium	ug/L	500	470	94	80-120	
Silver	ug/L	250	240	96	80-120	
Thallium	ug/L	500	461	92	80-120	
Vanadium	ug/L	500	484	97	80-120	
Zinc	ug/L	500	469	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147592 1147593

Parameter	Units	92191398001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	447	442	89	88	75-125	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147592 1147593

Parameter	Units	92191398001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	476	471	95	94	75-125	1	25	
Barium	ug/L	63.9J	500	500	538	530	95	93	75-125	1	25	
Beryllium	ug/L	ND	500	500	479	473	96	95	75-125	1	25	
Cadmium	ug/L	ND	500	500	472	467	94	93	75-125	1	25	
Chromium	ug/L	13.5	500	500	503	498	98	97	75-125	1	25	
Cobalt	ug/L	10.1	500	500	484	477	95	93	75-125	1	25	
Copper	ug/L	11.2	500	500	502	495	98	97	75-125	1	25	
Lead	ug/L	ND	500	500	458	452	91	90	75-125	1	25	
Nickel	ug/L	7.3J	500	500	479	476	94	94	75-125	1	25	
Selenium	ug/L	ND	500	500	475	464	95	92	75-125	2	25	
Silver	ug/L	ND	250	250	241	238	96	95	75-125	1	25	
Thallium	ug/L	ND	500	500	443	439	89	88	75-125	1	25	
Vanadium	ug/L	29.2	500	500	519	511	98	96	75-125	2	25	
Zinc	ug/L	15.0	500	500	489	484	95	94	75-125	1	25	

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QUALITY CONTROL DATA

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

QC Batch: MSV/25948
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92191399001, 92191399002

METHOD BLANK: 1148721
Matrix: Water
Associated Lab Samples: 92191399001, 92191399002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/02/14 22:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/02/14 22:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	03/02/14 22:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/02/14 22:20	
1,1-Dichloroethane	ug/L	ND	5.0	03/02/14 22:20	
1,1-Dichloroethene	ug/L	ND	5.0	03/02/14 22:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/02/14 22:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	03/02/14 22:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/02/14 22:20	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/02/14 22:20	
1,2-Dichloroethane	ug/L	ND	1.0	03/02/14 22:20	
1,2-Dichloropropane	ug/L	ND	1.0	03/02/14 22:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/02/14 22:20	
2-Butanone (MEK)	ug/L	ND	100	03/02/14 22:20	
2-Hexanone	ug/L	ND	50.0	03/02/14 22:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	03/02/14 22:20	
Acetone	ug/L	ND	100	03/02/14 22:20	
Acrylonitrile	ug/L	ND	200	03/02/14 22:20	
Benzene	ug/L	ND	1.0	03/02/14 22:20	
Bromochloromethane	ug/L	ND	3.0	03/02/14 22:20	
Bromodichloromethane	ug/L	ND	1.0	03/02/14 22:20	
Bromoform	ug/L	ND	3.0	03/02/14 22:20	
Bromomethane	ug/L	ND	10.0	03/02/14 22:20	
Carbon disulfide	ug/L	ND	100	03/02/14 22:20	
Carbon tetrachloride	ug/L	ND	1.0	03/02/14 22:20	
Chlorobenzene	ug/L	ND	3.0	03/02/14 22:20	
Chloroethane	ug/L	ND	10.0	03/02/14 22:20	
Chloroform	ug/L	ND	5.0	03/02/14 22:20	
Chloromethane	ug/L	ND	1.0	03/02/14 22:20	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/02/14 22:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/02/14 22:20	
Dibromochloromethane	ug/L	ND	3.0	03/02/14 22:20	
Dibromomethane	ug/L	ND	10.0	03/02/14 22:20	
Ethylbenzene	ug/L	ND	1.0	03/02/14 22:20	
Iodomethane	ug/L	ND	10.0	03/02/14 22:20	
Methylene Chloride	ug/L	ND	1.0	03/02/14 22:20	
Styrene	ug/L	ND	1.0	03/02/14 22:20	
Tetrachloroethene	ug/L	ND	1.0	03/02/14 22:20	
Toluene	ug/L	ND	1.0	03/02/14 22:20	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/02/14 22:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/02/14 22:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/02/14 22:20	
Trichloroethene	ug/L	ND	1.0	03/02/14 22:20	

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QUALITY CONTROL DATA

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

METHOD BLANK: 1148721 Matrix: Water
Associated Lab Samples: 92191399001, 92191399002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	ND	1.0	03/02/14 22:20	
Vinyl acetate	ug/L	ND	50.0	03/02/14 22:20	
Vinyl chloride	ug/L	ND	1.0	03/02/14 22:20	
Xylene (Total)	ug/L	ND	5.0	03/02/14 22:20	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/02/14 22:20	
4-Bromofluorobenzene (S)	%	100	70-130	03/02/14 22:20	
Toluene-d8 (S)	%	99	70-130	03/02/14 22:20	

LABORATORY CONTROL SAMPLE: 1148722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.0	104	70-130	
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethene	ug/L	50	48.5	97	70-132	
1,2,3-Trichloropropane	ug/L	50	52.5	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,2-Dichloroethane	ug/L	50	48.7	97	70-130	
1,2-Dichloropropane	ug/L	50	52.3	105	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Hexanone	ug/L	100	102	102	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	70-140	
Acetone	ug/L	100	91.1J	91	50-175	
Acrylonitrile	ug/L	250	250	100	70-143	
Benzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	54.9	110	70-130	
Bromomethane	ug/L	50	46.0	92	54-130	
Carbon disulfide	ug/L	50	50.5J	101	70-131	
Carbon tetrachloride	ug/L	50	51.7	103	70-132	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	47.5	95	64-134	
Chloroform	ug/L	50	49.8	100	70-130	
Chloromethane	ug/L	50	44.1	88	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	70-130	
Dibromochloromethane	ug/L	50	53.1	106	70-130	
Dibromomethane	ug/L	50	52.6	105	70-131	
Ethylbenzene	ug/L	50	50.5	101	70-130	

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QUALITY CONTROL DATA

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

LABORATORY CONTROL SAMPLE: 1148722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	100	92.4	92	49-180	
Methylene Chloride	ug/L	50	46.6	93	63-130	
Styrene	ug/L	50	54.1	108	70-130	
Tetrachloroethene	ug/L	50	52.0	104	70-130	
Toluene	ug/L	50	51.4	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	46.7J	93	70-141	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	48.8	98	62-133	
Vinyl acetate	ug/L	100	97.9	98	66-157	
Vinyl chloride	ug/L	50	51.8	104	69-130	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148723 1148724

Parameter	Units	92191399002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	49.5	57.1	99	114	70-166	14	30	
Benzene	ug/L	ND	50	50	52.0	60.6	104	121	70-148	15	30	
Chlorobenzene	ug/L	ND	50	50	50.8	58.5	102	117	70-146	14	30	
Toluene	ug/L	ND	50	50	49.9	57.3	100	115	70-155	14	30	
Trichloroethene	ug/L	ND	50	50	54.1	61.8	108	124	69-151	13	30	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALIFIERS

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BUTNER LANDFILL SW 660.1302.12
Pace Project No.: 92191399

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92191399001	**3902-SW1**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191399002	**3902-SW2**	EPA 3010	MPRP/15332	EPA 6010	ICP/13911
92191399001	**3902-SW1**	EPA 8260	MSV/25948		
92191399002	**3902-SW2**	EPA 8260	MSV/25948		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: December 16, 2013 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.13**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Jake Eng

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1301 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Optional
Proj. Due Date:
Proj. Name:

Corrected Cooler Temp.: 0.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AD 2/27/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG **Date:** 2/27/14

SRF Review: JG **Date:** 2/28/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92191399

92191399

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Joyce Engineering
Address:	2211 West Meadowview Rd
	Greensboro, NC 27407
Email To:	aeverhart@joyceengineering.com
Phone:	(336) 323-0092 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Alex Everhart
Copy To:	Van Burbach
Purchase Order No.	
Client Project ID:	Butner Landfill SW 660.1302.12 T04
Container Order Number:	

Section C — Invoice Information:

Attention:	Jason Falls
Company Name:	Granville County, Solid Waste
Address:	P.O. Box 906, Oxford NC 27565

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	NC App I Metals	NC App I 8260	Residual Chlorine (Y/N)	
1	3902-SW1	WT	G			2/24/14	1115		4			X	X						X	X		001
2	3902-SW2	WT	G			2/24/14	1240		4			X	X						X	X		002
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

42P1399

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[illegible]	2/27/14	1155	[illegible]	2-27-14	1155				
	[illegible]	2-27-14	15:05	[illegible]	2/27/14	15:05	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Adam Cox, Amanda Freeman

SIGNATURE of SAMPLER: Adam Cox, [illegible] Freeman

DATE Signed: 2/26/14

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 11, 2014

Mr. Van Burbach
Joyce Engineering-NC
2211 West Meadowview Rd
Boone Bldg, Suite 101
Greensboro, NC 27407

RE: Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Dear Mr. Burbach:
Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92191394001	**3902-Field Blank**	Water	02/24/14 14:30	02/27/14 15:05

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SAMPLE ANALYTE COUNT

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92191394001	**3902-Field Blank**	EPA 8081	NU1	9	PASI-C
		EPA 8151	LJM	2	PASI-O
		EPA 6010	SH1	16	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	AES2	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A

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SUMMARY OF DETECTION

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92191394001	**3902-Field Blank**					
EPA 8260	Acetone	25.7J	ug/L	100	03/02/14 16:36	
EPA 8260	Chloroform	0.49J	ug/L	5.0	03/02/14 16:36	
EPA 8260	Chloromethane	0.25J	ug/L	1.0	03/02/14 16:36	
SM 4500-CN-E	Cyanide	5.5J	ug/L	10.0	03/10/14 13:20	

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ANALYTICAL RESULTS

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Sample: 3902-Field Blank **Lab ID: 92191394001** Collected: 02/24/14 14:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
beta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:38	319-85-7	
delta-BHC	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:38	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:38	58-89-9	
4,4'-DDD	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:38	72-54-8	
4,4'-DDT	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:38	50-29-3	
Endrin aldehyde	ND	ug/L	0.10	0.050	1	02/28/14 11:20	03/08/14 17:38	7421-93-4	
Heptachlor	ND	ug/L	0.050	0.050	1	02/28/14 11:20	03/08/14 17:38	76-44-8	
Surrogates									
Tetrachloro-m-xylene (S)	58	%	20-130		1	02/28/14 11:20	03/08/14 17:38	877-09-8	
Decachlorobiphenyl (S)	61	%	20-130		1	02/28/14 11:20	03/08/14 17:38	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	ug/L	2.1	0.23	1	03/03/14 15:30	03/07/14 02:34	94-75-7	
Surrogates									
2,4-DCAA (S)	96	%	42-142		1	03/03/14 15:30	03/07/14 02:34	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-38-2	
Barium	ND	ug/L	100	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/01/14 02:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	02/28/14 09:05	03/01/14 02:45	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/01/14 02:45	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	02/28/14 09:05	03/01/14 02:45	7440-28-0	
Tin	ND	ug/L	100	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	02/28/14 09:05	03/01/14 02:45	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	02/28/14 09:05	03/01/14 02:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/28/14 17:30	03/10/14 18:05	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**25.7J**	ug/L	100	10.0	1		03/02/14 16:36	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/02/14 16:36	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/02/14 16:36	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/02/14 16:36	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/02/14 16:36	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		03/02/14 16:36	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/02/14 16:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/02/14 16:36	75-27-4	

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ANALYTICAL RESULTS

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Sample: 3902-Field Blank **Lab ID: 92191394001** Collected: 02/24/14 14:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Bromoform	ND	ug/L	3.0	0.26	1		03/02/14 16:36	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/02/14 16:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/02/14 16:36	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/02/14 16:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/02/14 16:36	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/02/14 16:36	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/02/14 16:36	75-00-3	
Chloroform	**0.49J**	ug/L	5.0	0.14	1		03/02/14 16:36	67-66-3	
Chloromethane	**0.25J**	ug/L	1.0	0.11	1		03/02/14 16:36	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/02/14 16:36	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/02/14 16:36	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/02/14 16:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/02/14 16:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/02/14 16:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/02/14 16:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/02/14 16:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/02/14 16:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/02/14 16:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/02/14 16:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/02/14 16:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/02/14 16:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/02/14 16:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/02/14 16:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/02/14 16:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/02/14 16:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/02/14 16:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/02/14 16:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/02/14 16:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/02/14 16:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/02/14 16:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/02/14 16:36	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/02/14 16:36	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/02/14 16:36	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/02/14 16:36	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/02/14 16:36	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/02/14 16:36	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		03/02/14 16:36	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/02/14 16:36	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/02/14 16:36	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/02/14 16:36	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/02/14 16:36	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/02/14 16:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/02/14 16:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/02/14 16:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/02/14 16:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/02/14 16:36	108-88-3	

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ANALYTICAL RESULTS

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Sample: 3902-Field Blank **Lab ID: 92191394001** Collected: 02/24/14 14:30 Received: 02/27/14 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		03/02/14 16:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/02/14 16:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/02/14 16:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/02/14 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/02/14 16:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/02/14 16:36	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/02/14 16:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/02/14 16:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		03/02/14 16:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/02/14 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/02/14 16:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/02/14 16:36	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/28/14 15:35	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	**5.5J**	ug/L	10.0	5.0	1		03/10/14 13:20	57-12-5	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: MERP/6250
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92191394001

METHOD BLANK: 1148164
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/10/14 17:52	

LABORATORY CONTROL SAMPLE: 1148165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148166 1148167

Parameter	Units	92191393001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	94	98	75-125	4	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: MPRP/15331
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92191394001

METHOD BLANK: 1147586
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/01/14 01:40	
Arsenic	ug/L	ND	10.0	03/01/14 01:40	
Barium	ug/L	ND	100	03/01/14 01:40	
Beryllium	ug/L	ND	1.0	03/01/14 01:40	
Cadmium	ug/L	ND	1.0	03/01/14 01:40	
Chromium	ug/L	ND	10.0	03/01/14 01:40	
Cobalt	ug/L	ND	10.0	03/01/14 01:40	
Copper	ug/L	ND	10.0	03/01/14 01:40	
Lead	ug/L	ND	10.0	03/01/14 01:40	
Nickel	ug/L	ND	50.0	03/01/14 01:40	
Selenium	ug/L	ND	10.0	03/01/14 01:40	
Silver	ug/L	ND	10.0	03/01/14 01:40	
Thallium	ug/L	ND	5.5	03/01/14 01:40	
Tin	ug/L	ND	100	03/01/14 01:40	
Vanadium	ug/L	ND	25.0	03/01/14 01:40	
Zinc	ug/L	ND	10.0	03/01/14 01:40	

LABORATORY CONTROL SAMPLE: 1147587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	492	98	80-120	
Arsenic	ug/L	500	458	92	80-120	
Barium	ug/L	500	476	95	80-120	
Beryllium	ug/L	500	474	95	80-120	
Cadmium	ug/L	500	484	97	80-120	
Chromium	ug/L	500	483	97	80-120	
Cobalt	ug/L	500	472	94	80-120	
Copper	ug/L	500	475	95	80-120	
Lead	ug/L	500	475	95	80-120	
Nickel	ug/L	500	484	97	80-120	
Selenium	ug/L	500	455	91	80-120	
Silver	ug/L	250	238	95	80-120	
Thallium	ug/L	500	455	91	80-120	
Tin	ug/L	500	495	99	80-120	
Vanadium	ug/L	500	488	98	80-120	
Zinc	ug/L	500	473	95	80-120	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147588 1147589

Parameter	Units	92190918006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	489	479	98	96	75-125	2	25	
Arsenic	ug/L	ND	500	500	469	454	94	91	75-125	3	25	
Barium	ug/L	30.8	500	500	517	506	97	95	75-125	2	25	
Beryllium	ug/L	ND	500	500	485	475	97	95	75-125	2	25	
Cadmium	ug/L	ND	500	500	489	479	98	96	75-125	2	25	
Chromium	ug/L	ND	500	500	496	488	98	97	75-125	2	25	
Cobalt	ug/L	ND	500	500	478	470	95	94	75-125	2	25	
Copper	ug/L	ND	500	500	489	479	98	96	75-125	2	25	
Lead	ug/L	ND	500	500	474	465	94	92	75-125	2	25	
Nickel	ug/L	ND	500	500	488	481	97	96	75-125	1	25	
Selenium	ug/L	ND	500	500	463	456	92	91	75-125	2	25	
Silver	ug/L	ND	250	250	241	237	96	95	75-125	2	25	
Thallium	ug/L	ND	500	500	459	451	91	90	75-125	2	25	
Tin	ug/L	ND	500	500	496	491	99	98	75-125	1	25	
Vanadium	ug/L	7.0	500	500	504	493	99	97	75-125	2	25	
Zinc	ug/L	ND	500	500	483	475	96	94	75-125	2	25	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: MSV/25947
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92191394001

METHOD BLANK: 1148715
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/02/14 09:51	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/02/14 09:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	03/02/14 09:51	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/02/14 09:51	
1,1-Dichloroethane	ug/L	ND	5.0	03/02/14 09:51	
1,1-Dichloroethene	ug/L	ND	5.0	03/02/14 09:51	
1,1-Dichloropropene	ug/L	ND	5.0	03/02/14 09:51	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/02/14 09:51	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	03/02/14 09:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	03/02/14 09:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/02/14 09:51	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/02/14 09:51	
1,2-Dichloroethane	ug/L	ND	1.0	03/02/14 09:51	
1,2-Dichloropropane	ug/L	ND	1.0	03/02/14 09:51	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/02/14 09:51	
1,3-Dichloropropane	ug/L	ND	1.0	03/02/14 09:51	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/02/14 09:51	
2,2-Dichloropropane	ug/L	ND	15.0	03/02/14 09:51	
2-Butanone (MEK)	ug/L	ND	100	03/02/14 09:51	
2-Hexanone	ug/L	ND	50.0	03/02/14 09:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	03/02/14 09:51	
Acetone	ug/L	ND	100	03/02/14 09:51	
Acetonitrile	ug/L	ND	55.0	03/02/14 09:51	
Acrolein	ug/L	ND	53.0	03/02/14 09:51	
Acrylonitrile	ug/L	ND	200	03/02/14 09:51	
Allyl chloride	ug/L	ND	10.0	03/02/14 09:51	
Benzene	ug/L	ND	1.0	03/02/14 09:51	
Bromochloromethane	ug/L	ND	3.0	03/02/14 09:51	
Bromodichloromethane	ug/L	ND	1.0	03/02/14 09:51	
Bromoform	ug/L	ND	3.0	03/02/14 09:51	
Bromomethane	ug/L	ND	10.0	03/02/14 09:51	
Carbon disulfide	ug/L	ND	100	03/02/14 09:51	
Carbon tetrachloride	ug/L	ND	1.0	03/02/14 09:51	
Chlorobenzene	ug/L	ND	3.0	03/02/14 09:51	
Chloroethane	ug/L	ND	10.0	03/02/14 09:51	
Chloroform	ug/L	ND	5.0	03/02/14 09:51	
Chloromethane	ug/L	ND	1.0	03/02/14 09:51	
Chloroprene	ug/L	ND	20.0	03/02/14 09:51	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/02/14 09:51	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/02/14 09:51	
Dibromochloromethane	ug/L	ND	3.0	03/02/14 09:51	
Dibromomethane	ug/L	ND	10.0	03/02/14 09:51	
Dichlorodifluoromethane	ug/L	ND	5.0	03/02/14 09:51	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

METHOD BLANK: 1148715 Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	03/02/14 09:51	
Ethylbenzene	ug/L	ND	1.0	03/02/14 09:51	
Iodomethane	ug/L	ND	10.0	03/02/14 09:51	
Isobutanol	ug/L	ND	100	03/02/14 09:51	
Methacrylonitrile	ug/L	ND	100	03/02/14 09:51	
Methyl methacrylate	ug/L	ND	30.0	03/02/14 09:51	
Methylene Chloride	ug/L	ND	1.0	03/02/14 09:51	
Naphthalene	ug/L	ND	10.0	03/02/14 09:51	
Propionitrile	ug/L	ND	150	03/02/14 09:51	
Styrene	ug/L	ND	1.0	03/02/14 09:51	
Tetrachloroethene	ug/L	ND	1.0	03/02/14 09:51	
Toluene	ug/L	ND	1.0	03/02/14 09:51	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/02/14 09:51	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/02/14 09:51	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/02/14 09:51	
Trichloroethene	ug/L	ND	1.0	03/02/14 09:51	
Trichlorofluoromethane	ug/L	ND	1.0	03/02/14 09:51	
Vinyl acetate	ug/L	ND	50.0	03/02/14 09:51	
Vinyl chloride	ug/L	ND	1.0	03/02/14 09:51	
Xylene (Total)	ug/L	ND	5.0	03/02/14 09:51	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/02/14 09:51	
4-Bromofluorobenzene (S)	%	99	70-130	03/02/14 09:51	
Toluene-d8 (S)	%	99	70-130	03/02/14 09:51	

LABORATORY CONTROL SAMPLE: 1148716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.2	112	70-130	
1,1,1-Trichloroethane	ug/L	50	53.8	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.4	111	70-130	
1,1,2-Trichloroethane	ug/L	50	57.1	114	70-130	
1,1-Dichloroethane	ug/L	50	54.0	108	70-130	
1,1-Dichloroethene	ug/L	50	52.3	105	70-132	
1,1-Dichloropropene	ug/L	50	55.7	111	70-130	
1,2,3-Trichloropropane	ug/L	50	57.0	114	70-130	
1,2,4-Trichlorobenzene	ug/L	50	56.0	112	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.7	111	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	57.0	114	70-130	
1,2-Dichlorobenzene	ug/L	50	56.1	112	70-130	
1,2-Dichloroethane	ug/L	50	53.5	107	70-130	
1,2-Dichloropropane	ug/L	50	56.6	113	70-130	
1,3-Dichlorobenzene	ug/L	50	53.8	108	70-130	
1,3-Dichloropropane	ug/L	50	56.0	112	70-130	
1,4-Dichlorobenzene	ug/L	50	55.4	111	70-130	
2,2-Dichloropropane	ug/L	50	58.7	117	58-145	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

LABORATORY CONTROL SAMPLE: 1148716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	117	117	70-145	
2-Hexanone	ug/L	100	112	112	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	70-140	
Acetone	ug/L	100	104	104	50-175	
Acetonitrile	ug/L	500	543	109	70-130	
Acrolein	ug/L	250	293	117	70-130	
Acrylonitrile	ug/L	250	278	111	70-143	
Allyl chloride	ug/L	50	52.6	105	70-130	
Benzene	ug/L	50	55.7	111	70-130	
Bromochloromethane	ug/L	50	56.4	113	70-130	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	60.1	120	70-130	
Bromomethane	ug/L	50	47.0	94	54-130	
Carbon disulfide	ug/L	50	54.3J	109	70-131	
Carbon tetrachloride	ug/L	50	54.2	108	70-132	
Chlorobenzene	ug/L	50	55.2	110	70-130	
Chloroethane	ug/L	50	49.3	99	64-134	
Chloroform	ug/L	50	52.6	105	70-130	
Chloromethane	ug/L	50	49.3	99	64-130	
Chloroprene	ug/L	50	55.6	111	70-130	
cis-1,2-Dichloroethene	ug/L	50	52.8	106	70-131	
cis-1,3-Dichloropropene	ug/L	50	57.5	115	70-130	
Dibromochloromethane	ug/L	50	57.2	114	70-130	
Dibromomethane	ug/L	50	55.9	112	70-131	
Dichlorodifluoromethane	ug/L	50	53.6	107	56-130	
Ethyl methacrylate	ug/L	50	55.3	111	70-130	
Ethylbenzene	ug/L	50	54.3	109	70-130	
Iodomethane	ug/L	100	103	103	49-180	
Isobutanol	ug/L	1000	1210	121	70-130	
Methacrylonitrile	ug/L	500	562	112	70-130	
Methyl methacrylate	ug/L	50	57.5	115	70-130	
Methylene Chloride	ug/L	50	51.2	102	63-130	
Naphthalene	ug/L	50	56.9	114	70-138	
Propionitrile	ug/L	500	571	114	70-130	
Styrene	ug/L	50	58.3	117	70-130	
Tetrachloroethene	ug/L	50	55.7	111	70-130	
Toluene	ug/L	50	55.2	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	58.8	118	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	57.6J	115	70-141	
Trichloroethene	ug/L	50	54.7	109	70-130	
Trichlorofluoromethane	ug/L	50	52.0	104	62-133	
Vinyl acetate	ug/L	100	118	118	66-157	
Vinyl chloride	ug/L	50	55.7	111	69-130	
Xylene (Total)	ug/L	150	169	113	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148717 1148718

Parameter	Units	92191398002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	50.9	56.2	102	112	70-166	10	30	
Benzene	ug/L	ND	50	50	53.7	58.6	107	117	70-148	9	30	
Chlorobenzene	ug/L	ND	50	50	52.6	57.4	105	115	70-146	9	30	
Toluene	ug/L	ND	50	50	50.9	55.8	102	112	70-155	9	30	
Trichloroethene	ug/L	ND	50	50	55.2	59.3	110	119	69-151	7	30	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: OEXT/26196
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92191394001

METHOD BLANK: 1147867
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.10	03/08/14 16:28	
4,4'-DDT	ug/L	ND	0.10	03/08/14 16:28	
beta-BHC	ug/L	ND	0.050	03/08/14 16:28	
delta-BHC	ug/L	ND	0.050	03/08/14 16:28	
Endrin aldehyde	ug/L	ND	0.10	03/08/14 16:28	
gamma-BHC (Lindane)	ug/L	ND	0.050	03/08/14 16:28	
Heptachlor	ug/L	ND	0.050	03/08/14 16:28	
Decachlorobiphenyl (S)	%	81	20-130	03/08/14 16:28	
Tetrachloro-m-xylene (S)	%	79	20-130	03/08/14 16:28	

LABORATORY CONTROL SAMPLE: 1147868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.21	86	20-150	
4,4'-DDT	ug/L	.25	0.22	90	20-150	
beta-BHC	ug/L	.25	0.20	82	20-150	
delta-BHC	ug/L	.25	0.22	88	20-150	
Endrin aldehyde	ug/L	.25	0.18	73	20-150	
gamma-BHC (Lindane)	ug/L	.25	0.20	82	20-150	
Heptachlor	ug/L	.25	0.18	72	20-150	
Decachlorobiphenyl (S)	%			79	20-130	
Tetrachloro-m-xylene (S)	%			79	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1147869 1147870

Parameter	Units	92191419001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	ug/L	ND	.5	.5	0.44	0.46	90	93	20-150	3	30	
4,4'-DDT	ug/L	ND	.5	.5	0.47	0.47	95	95	20-150	0	30	
beta-BHC	ug/L	ND	.5	.5	0.40	0.41	82	84	20-150	3	30	
delta-BHC	ug/L	ND	.5	.5	0.44	0.44	88	90	20-150	2	30	
Endrin aldehyde	ug/L	ND	.5	.5	0.34	0.32	69	64	20-150	8	30	
gamma-BHC (Lindane)	ug/L	ND	.5	.5	0.40	0.40	80	81	20-150	1	30	
Heptachlor	ug/L	ND	.5	.5	0.39	0.41	80	82	20-150	4	30	
Decachlorobiphenyl (S)	%						62	64	20-130			
Tetrachloro-m-xylene (S)	%						68	73	20-130			

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: OEXT/16337
QC Batch Method: EPA 8151
Analysis Method: EPA 8151
Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92191394001

METHOD BLANK: 844125
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4-D	ug/L	ND	2.0	03/07/14 01:33	
2,4-DCAA (S)	%	90	42-142	03/07/14 01:33	

LABORATORY CONTROL SAMPLE: 844126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-D	ug/L	6	5.9	99	23-163	
2,4-DCAA (S)	%			95	42-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 844127 844128

Parameter	Units	92191419001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-D	ug/L	ND	13.3	13.3	12.6	13.9	94	104	17-167	10	40	
2,4-DCAA (S)	%						80	88	42-142			

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: WET/29763
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92191394001

METHOD BLANK: 1148041
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	02/28/14 15:35	

LABORATORY CONTROL SAMPLE: 1148042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	513J	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148043 1148044

Parameter	Units	92191394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	491J	491J	98	98	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148045 1148046

Parameter	Units	92191216003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	ug/L	ND	500	500	506J	506J	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

QC Batch: WETA/18294
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92191394001

METHOD BLANK: 1153435
Matrix: Water
Associated Lab Samples: 92191394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	03/10/14 13:18	

LABORATORY CONTROL SAMPLE: 1153436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	102	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1153439 1153440

Parameter	Units	92191102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	ND	100	100	120	114	118	111	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1153463 1153464

Parameter	Units	92191394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	5.5J	100	100	111	114	106	108	75-125	2	20	

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Butner Landfill 660.1302.12T04
Pace Project No.: 92191394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92191394001	**3902-Field Blank**	EPA 3510	OEXT/26196	EPA 8081	GCSV/16880
92191394001	**3902-Field Blank**	EPA 8151	OEXT/16337	EPA 8151	GCSV/10794
92191394001	**3902-Field Blank**	EPA 3010	MPRP/15331	EPA 6010	ICP/13910
92191394001	**3902-Field Blank**	EPA 7470	MERP/6250	EPA 7470	MERC/6032
92191394001	**3902-Field Blank**	EPA 8260	MSV/25947		
92191394001	**3902-Field Blank**	SM 4500-S2D	WET/29763		
92191394001	**3902-Field Blank**	SM 4500-CN-E	WETA/18294		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: December 16, 2013 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.13**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Joyce Eng.

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1301 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 2.7 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: DD 2/27/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JG **Date:** 2/27/14

SRF Review: JG **Date:** 2/28/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92191394

92191394

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company: Joyce Engineering
Address: 2211 West Meadowview Rd
Greensboro, NC 27407
Email To: aeverhart@joyceengineering.com
Phone: (336) 323-0092 Fax
Requested Due Date/TAT: 10 Day (Default)

Section B
Required Project Information:

Report To: Alex Everhart
Copy To: Van Burbach
Purchase Order No.
Client Project ID: Butner Landfill Blanks 660.1302.12 T04
Container Order Number:

Section C
Invoice Information:

Attention: Jason Falls
Company Name: Granville County, Solid Waste
Address: P.O. Box 906, Oxford NC 27565

Regulatory Agency

State / Location
North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	NC App II Metals	NC App II 8260	Cyanide	8081 Pesticides	8151 Herbicides	Sulfide							Residual Chlorine (Y/N)	92491394
1	3902-Field Blank	WT	G			2/24/14	1430					X	X						X	X	X	X	X	X								NC App I & App II Detects* only 007
2	3902-Trip Blank	WT	G			2/24/14	0030					X	X							X												
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Detects: Tin, Gamma-BHC, Heptachlor, 2,4-D,	Joyce	2/27/14	1155		2-27-14	1155				
Endrin Aldehyde, 4,4-DDD, 4,4-DDT, Beta-BHC,		2-27-14	15:05		2/27/14	15:05	2.7	Y	N	Y
Delta-BHC, Naphthalene										
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Adam Cox, Amanda Freeman

SIGNATURE of SAMPLER: Adam Cox

DATE Signed: 2/26/14

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 22, 2014

Mr. Van Burbach
Joyce Engineering-NC
2211 West Meadowview Rd
Boone Bldg, Suite 101
Greensboro, NC 27407

RE: Project: BUTNER RESAMPLE
Pace Project No.: 92197770

Dear Mr. Burbach:
Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Alex Everhart, Joyce Engineering-NC

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CERTIFICATIONS

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92197770001	**3902-MW2R**	Water	04/15/14 17:30	04/16/14 17:25

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SAMPLE ANALYTE COUNT

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92197770001	**3902-MW2R**	EPA 8081	RES	3	PASI-C

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ANALYTICAL RESULTS

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

Sample: 3902-MW2R **Lab ID: 92197770001** Collected: 04/15/14 17:30 Received: 04/16/14 17:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
beta-BHC	ND	ug/L	0.050	0.050	1	04/17/14 16:50	04/21/14 22:10	319-85-7	
Surrogates									
Tetrachloro-m-xylene (S)	56	%	20-130		1	04/17/14 16:50	04/21/14 22:10	877-09-8	
Decachlorobiphenyl (S)	60	%	20-130		1	04/17/14 16:50	04/21/14 22:10	2051-24-3	

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QUALITY CONTROL DATA

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

QC Batch: OEXT/27107
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92197770001

METHOD BLANK: 1180802
Matrix: Water
Associated Lab Samples: 92197770001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
beta-BHC	ug/L	ND	0.050	04/21/14 23:37	
Decachlorobiphenyl (S)	%	75	20-130	04/21/14 23:37	
Tetrachloro-m-xylene (S)	%	63	20-130	04/21/14 23:37	

LABORATORY CONTROL SAMPLE: 1180803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
beta-BHC	ug/L	.25	0.23	92	20-150	
Decachlorobiphenyl (S)	%			77	20-130	
Tetrachloro-m-xylene (S)	%			81	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1180804 1180805

Parameter	Units	92197627002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
beta-BHC	ug/L	ND	.5	.5	0.47	0.46	95	93	20-150	2	30	
Decachlorobiphenyl (S)	%						81	75	20-130			
Tetrachloro-m-xylene (S)	%						81	80	20-130			

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Huntersville, NC 28078
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QUALIFIERS

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BUTNER RESAMPLE
Pace Project No.: 92197770

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92197770001	**3902-MW2R**	EPA 3510	OEXT/27107	EPA 8081	GCSV/17314

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Joyce Eng.

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 3.2 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: EW 4/16/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	JJ	**Date:**	4/16/14
SRF Review:	JJ	**Date:**	4/17/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92197770

92197770

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Joyce Engineering
Address:	2211 West Meadowview Rd
	Greensboro, NC 27407
Email To:	aeverhart@joyceengineering.com
Phone:	(336) 323-0092 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Alex Everhart
Copy To:	Van Burbach
Purchase Order No.	
Client Project ID:	Butner Resample
Container Order Number:	

Section C — Invoice Information:

Attention:	Jason Falls
Company Name:	Granville County, Solid Waste
Address:	P.O. Box 906, Oxford NC 27565

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): Beta-BHC	Residual Chlorine (Y/N)	
1	3902-MW2R	WT	G			4/15/14	1730		2									X		001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

92197770 KG 4/17/14

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Daniel Girdner / JOYCE	4/16/14	08:03	[signature]	4/16/14	0803				
	[signature]	4/16/14	17:25	[signature]	4/16/14	1725	3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dan Girdner

SIGNATURE of SAMPLER: Daniel Girdner

DATE Signed: 4/15/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-MW-1R **Sampler(s):** A. Cox / A. Freeman

Well Location: North of the entrance at the tree line under the tower

Well Diameter: 2 inches

Initial Depth to Water (DTW): 44.70 feet

Depth to Bottom (DTB): 56.00 feet

Water Column Thickness (WCT): 11.30 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.8 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 5.4 gallons

Actual Amount Purged/Bailed: 4.0 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	0853	14.7	7.35	93.2	7.02	AF
1.8	0856	14.3	6.94	76.8	6.84	AF
3.6	0859	14.3	6.59	76.5	5.92	AF
Dry @ 4.0						
Before Sampling	0915	14.2	5.73	78.2	9.28	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was sunny with temperatures in the 40's on 2/24/14.

Signature: _____ **Date:** 2/24/14

QA/QC Sign Off: _____ **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-MW-2R **Sampler(s):** A. Freeman / A. Cox

Well Location: South side of fill, inside tree line and next to MW-3R

Well Diameter: 2 inches

Initial Depth to Water (DTW): 1.92 feet

Depth to Bottom (DTB): 18.85 feet

Water Column Thickness (WCT): 16.93 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.8 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.4 gallons

Actual Amount Purged/Bailed: 5.2 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 2.0 feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	1300	11.2	5.89	1601	10.28	AF
2.8	1309	12.7	6.68	1663	13.54	AF
Dry @ 5.2						
Before Sampling	1330	14.9	5.48	1791	6.89	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was sunny with temperatures in the 40's on 2/24/14.

Signature: [signature] **Date:** 2/24/14

QA/QC Sign Off: [signature] **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-MW-3R **Sampler(s):** A. Cox / A. Freeman

Well Location: Next to MW-2R, inside tree line

Well Diameter: 2 inches

Initial Depth to Water (DTW): 1.79 feet

Depth to Bottom (DTB): 35.83 feet

Water Column Thickness (WCT): 34.04 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 5.5 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 16.5 gallons

Actual Amount Purged/Bailed: 8.0 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 1.85 feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	1259	10.9	7.37	747	4.02	AF
5.5	1308	13.6	6.97	1169	3.97	AF
Dry @ 8.0						
Before Sampling	1320	13.5	6.99	1071	3.08	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was sunny with temperatures in the 50's on 2/24/14.

Signature: [signature] **Date:** 2/24/14

QA/QC Sign Off: [signature] **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-MW-4 **Sampler(s):** A. Cox / A. Freeman

Well Location: south of fill, just inside tree line

Well Diameter: 2 inches

Initial Depth to Water (DTW): 6.32 feet

Depth to Bottom (DTB): 31.43 feet

Water Column Thickness (WCT): 25.11 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 4.1 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 12.3 gallons

Actual Amount Purged/Bailed: 6.0 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	1200	12.6	5.91	1160	3.68	AF
4.1	1206	16.0	6.37	1275	4.09	AF
Dry @ 6.0						
Before Sampling	1230	15.7	6.22	1187	3.16	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was sunny with temperatures in the 50's on 2/24/14.

Signature: _____ **Date:** 2/24/14

QA/QC Sign Off: _____ **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-MW-5 **Sampler(s):** A. Cox / A. Freeman

Well Location: South side of old SED. pond, Basin in the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 12.25 feet

Depth to Bottom (DTB): 23.52 feet

Water Column Thickness (WCT): 11.27 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.8 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 5.4 gallons

Actual Amount Purged/Bailed: 3.5 gallons

Purged with: **Disposable Bailer**

Sampled with: **Disposable Bailer**

Depth to Water before Sampling: 12.60 feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	1100	11.5	6.40	121.4	6.77	AF
1.8	1106	11.8	6.13	149.6	24.5	AF
Dry @ 3.5						
Before Sampling	1125	11.7	6.02	151.3	11.21	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was sunny with temperatures in the 40's on 2/24/14.

Signature: [signature] **Date:** 2/24/14

QA/QC Sign Off: [signature] **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-MW-6 **Sampler(s):** A. Cox / A. Freeman

Well Location: other side of large mulch pile

Well Diameter: 2 inches

Initial Depth to Water (DTW): 10.75 feet

Depth to Bottom (DTB): 32.63 feet

Water Column Thickness (WCT): 21.88 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.6 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 10.8 gallons

Actual Amount Purged/Bailed: 9.0 gallons

Purged with: **Disposable Bailer**

Sampled with: **Disposable Bailer**

Depth to Water before Sampling: 10.73 feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	1001	13.2	5.83	503	8.11	AF
3.6	1009	13.5	6.11	519	7.24	AF
7.2	1017	14.2	6.35	528	6.80	AF
Dry @ 9.0						
Before Sampling	1030	13.9	6.30	525	6.75	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was partly sunny with temperatures in the 40's on 2/24/14.

Signature: _____ **Date:** 2/24/14

QA/QC Sign Off: _____ **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.04

Well ID: 3902-NES-1 **Sampler(s):** A. Cox / A. Freeman

Well Location: South of landfill, access through Wildlife Area hunt camp

Well Diameter: 2 inches

Initial Depth to Water (DTW): 12.25 feet

Depth to Bottom (DTB): 36.10 feet

Water Column Thickness (WCT): 23.85 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.8 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 11.4 gallons

Actual Amount Purged/Bailed: 11.4 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp. °C	pH	Cond. m.s.	Turb. ntu	Initials
0	1408	12.3	6.92	131.2	8.04	AF
3.8	1412	13.3	6.60	104.8	15.26	AF
7.6	1416	13.8	6.23	77.5	54.1	AF
11.4	1420	14.3	5.76	68.5	48.4	AF
Before Sampling	1420	14.3	5.76	68.5	48.4	AF

Comments (weather conditions, odor, color, silt, etc.): The weather was partly sunny with temperatures in the 40's on 2/24/14.

Field Blank @ 1430

Signature: [signature] **Date:** 2/24/14

QA/QC Sign Off: [signature] **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: BUTNER, Granville Co. **Project/Task No.:** 00660.1302.12.04

Surface Point ID: 3902-SW-1 **Sampler(s):** A. Cox / A. Freeman

Location: Near Sed. pond, Basin

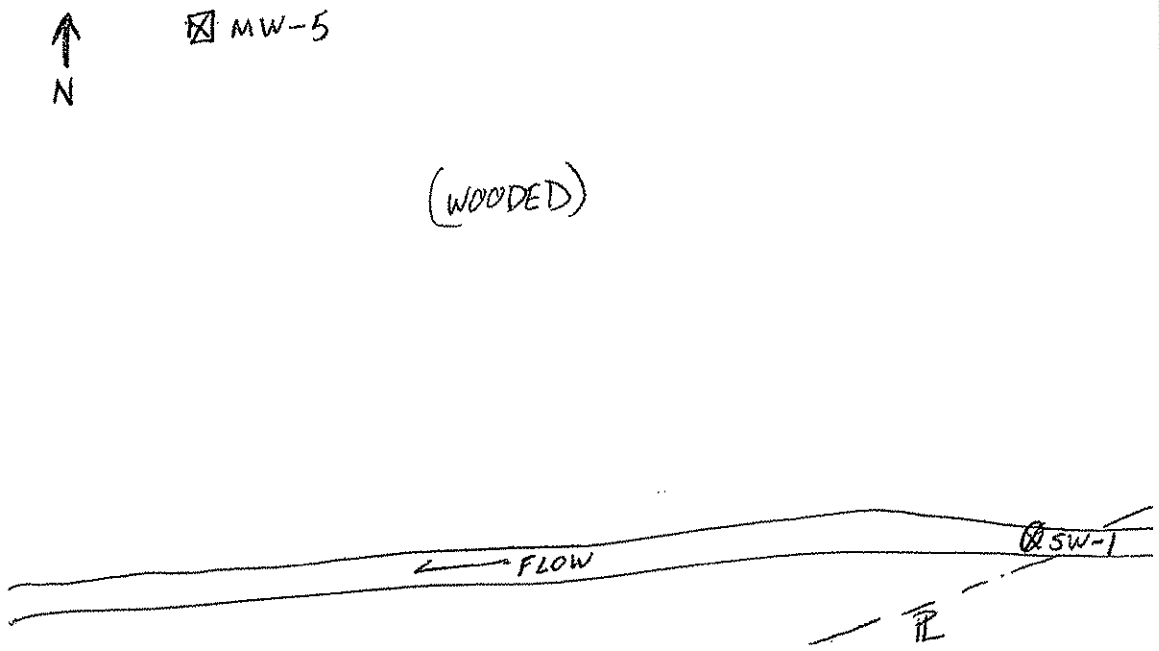
Field Parameters:

Time of Sampling:	1115	
pH:	5.79	
Temperature:	9.7	(°C)
Conductivity:	74.6	(µS)
Turbidity:	10.20	(ntu)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

The weather was sunny with temperatures in the 50's on 2/24/14.

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: [signature] **Date:** 2/24/14

QA/QC Sign Off: [signature] **Date:** 4/24/14

DATE: 2/24/14

JOYCE ENGINEERING

SURFACE WATER MONITORING LOG

Project Name: BUTNER, Granville Co. **Project/Task No.:** 00660.1302.12.04

Surface Point ID: 3902-SW-2 **Sampler(s):** A. Cox / A. Freeman

Location: Down from MW-2R & MW-3R

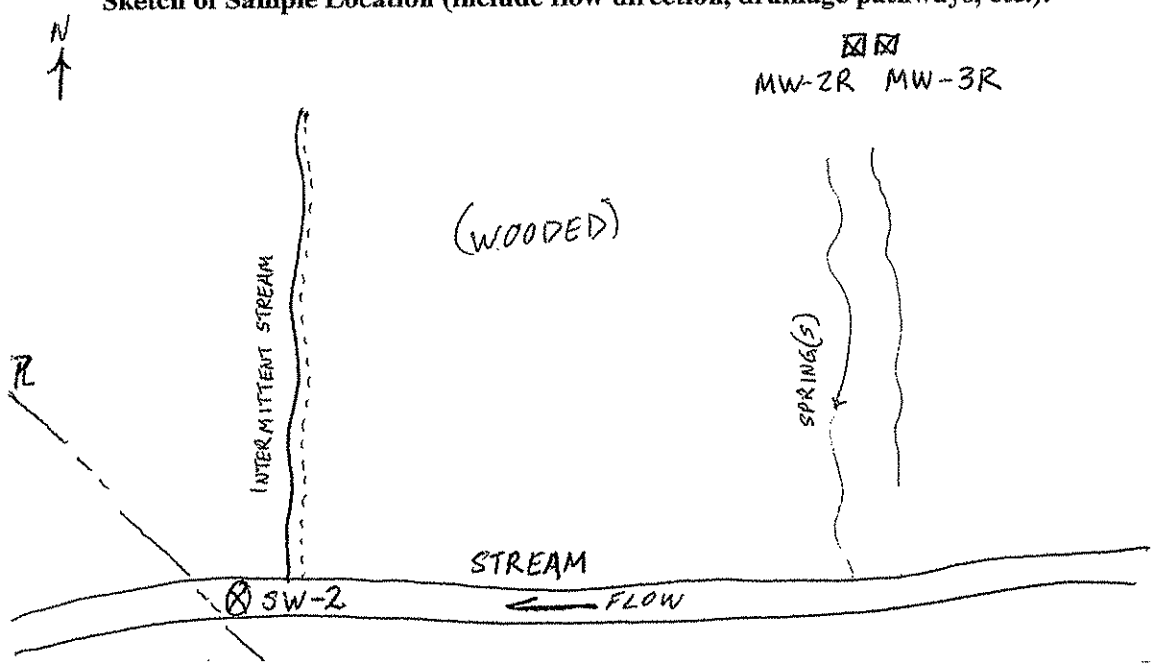
Field Parameters:

Time of Sampling:	1240	
pH:	7.99	
Temperature:	11.8	(°C)
Conductivity:	141.8	(µS)
Turbidity:	26.8	(ntu)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

The weather was partly sunny with temperatures in the 50's on 2/24/14.

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: [signature] **Date:** 2/24/14

QA/QC Sign Off: [signature] **Date:** 4/24/14

DATE: 4/15/14

JOYCE ENGINEERING

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 00660.1302.12.01

Well ID: 3902-MW-2R **Sampler(s):** D. Girdner

Well Location: South side of fill, inside tree line and next to MW-3R

Well Diameter: 2 inches

Initial Depth to Water (DTW): 1.98 feet

Depth to Bottom (DTB): 18.85 feet

Water Column Thickness (WCT): 16.87 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.8 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.3 gallons

Actual Amount Purged/Bailed: 5.8 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp. °C	pH	Cond. u.s.	Turb. ntu	Initials
0	1641	13.7	6.30	1952	17.8	DG
2.8	1646	12.6	6.48	1948	248	DG
5.5	1652	12.6	6.49	1941	312	DG
DRY @ 5.7						DG
Before Sampling	1730	12.7	6.47	1879	34.9	DG

Comments (weather conditions, odor, color, silt, etc.):

Cloudy, windy, rain, 60's

Resample

Signature: Daniel Girdner **Date:** 4/15/14

QA/QC Sign Off: [illegible] **Date:** 6/12/14

Appendix B

Statistical Analysis Worksheets

JOYCE Project **Granville County - Butner Landfill**
Project No: 660.1302.12
Date: 8-May-13

Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration		Sorted
1	Sep-94	MW-1R	ND		6.0
2	Dec-94	MW-1R	11		11.0
3	Feb-95	MW-1R	20		15.0
4	Mar-95	MW-1R	16		16.0
5	Nov-95	MW-1R	20		20.0
6	May-96	MW-1R	30		20.0
7	Nov-96	MW-1R	6		21.0
8	Jun-97	MW-1R	130		30.0
9	Dec-97	MW-1R	32		32.0
10	May-98	MW-1R	15		130
11	Nov-98	MW-1R	21		
12	Jul-99	MW-1R	ND		
13	Nov-99	MW-1R	ND		
14	May-00	MW-1R	ND		
15	Oct-00	MW-1R	ND		
16	Apr-01	MW-1R	ND		
17	Oct-01	MW-1R	ND		
18	Jun-02	MW-1R	ND		
19	Nov-02	MW-1R	ND		
20	Jun-03	MW-1R	ND		
21	Dec-03	MW-1R	ND		
22	Jun-04	MW-1R	ND		
23	Dec-04	MW-1R	ND		
24	Jun-05	MW-1R	ND		
25	Dec-05	MW-1R	ND		
26	28-Jun-06	MW-1R	ND		
27	29-Dec-06	MW-1R	ND		
28	12-Jul-07	MW-1R	ND		
29	19-Dec-07	MW-1R	2.5	B	
30	08-Jul-08	MW-1R	10.3	B	
31	17-Dec-08	MW-1R	2.1	B	
32	09-Jul-09	MW-1R	ND		
33	16-Dec-09	MW-1R	ND		
34	24-Jun-10	MW-1R	ND		
35	13-Dec-10	MW-1R	2.5	B	
36	20-Jun-11	MW-1R	108		
37	05-Dec-11	MW-1R	ND		
38	11-Jun-12	MW-1R	ND		
39	12-Dec-12	MW-1R	ND		
40	01-May-13	MW-1R	ND		
41	08-May-13	MW-1R	ND		
42	24-Feb-14	MW-1R	ND		

Number of Samples:	38	
Number of truncated data (ND):	28	
Percent Truncated:	74%	
Non-parametric Prediction Limit:	**130**	**µg/L**

Notes:
All concentrations in micrograms per liter (µg/L).
J = Estimated value below RL (included in statistical calculations).
B = Blank-qualified data (excluded from statistical calculations).