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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Richardson Smith Gardner and Associates, Inc.

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

Name: Joan A. Smyth, P.G. Phone: 919-828-0577 x 122

E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Johnston County Phase 1- 4 Landfill and Phase 4A landfill	680 County Home Road	51-03	.0500 and .1600	10/13/08 - 10/16/08

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.

Joan A. Smyth, P.G.	Senior Hydrogeologist	919-828-0577 x122
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Joan A. Smyth 12/12/08
Signature Date

Affix NC Licensed Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1369 GEOLOGIST JOAN A. SMYTH

Revised 01/2007

Fall 2008 Ground Water Monitoring Report

Johnston County Landfill
Phases 1 through 4 and Phases 4A
Smithfield, North Carolina
NC Solid Waste Permit # 51-01 and 51-02

Prepared for:

Johnston County Department of Public Utilities
309 East Market Street
Smithfield, North Carolina 27577

RSG Project No. **Johnston - 4**

Joan A. Smyth 12/12/08

Joan A. Smyth, P.G.
Senior Hydrogeologist

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December 2008

RICHARDSON SMITH GARDNER & ASSOCIATES
Engineering and Geological Services
14 N. Boylan Avenue
Raleigh, North Carolina 27603

Johnston County Landfill
Phases 1 through 4 and Phase 4A

Ground Water Monitoring Report

October 2008 Semi-annual Monitoring Event

Johnston County Landfill
Smithfield, North Carolina
NC Solid Waste Permit # 51-01 and 51-02

Prepared for:
Johnston County Department of Public Utilities
309 East Market Street
Smithfield, North Carolina 27577

December 2008

Richardson Smith Gardner & Associates, Inc.
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Johnston County Landfill
Phases 1 through 4 and Phase 4A
Semi-annual Ground Water Monitoring Report
October 2008 Sampling Event

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1.0 Introduction

Johnston County previously operated four (4) unlined landfills under Solid Waste Permit #51-01 (Phases 1 through 4). Phases 1-4 have been closed per applicable solid waste regulations. The Johnston County landfill currently accepts municipal solid waste (MSW) in a double-lined landfill (Phase 4a). Phase 4A is located as a "piggy back" over Phases 3 & 4, both of which are unlined. This report presents the results of the second semi-annual ground water monitoring event for 2008. Due to the proximity of the lined and unlined landfills, the data is presented together in this report. To comply with the semi-annual monitoring schedule required by NC Solid Waste Regulations, this event was conducted on October 13th- 16th, 2008.

The ground water monitoring network for Phases 1-4 consists of 14 wells located around the perimeter of the landfill. The network for Phase 4a consists of three (3) wells (**Figure 1**). Also included in the monitoring network are two surface water sampling points up and downstream of the landfill on Middle Creek (**Figure 2**).

2.0 Sampling Procedures

The sampling event, performed by trained personnel from Johnston County Landfill, consisted of collecting samples from 18 ground water wells (MW-3, MW-4B, MW-5A, MW-6, MW-7, MW-7d, MW-8a, MW-8d, MW-9c, MW-9d, MW-10, MW-11, MW-12b, MW-14d, MW-15d, MW-16d, MW-17 & PZ-3). Monitoring wells MW-8a and MW-17, associated with Phase 4a were analyzed with the Phase 1 through 4 data due to the proximity of these wells to unlined Phases 3 and 4. Monitoring well MW-8d (associated with Phase 4a) is sampled annually during the fall event. The well locations are shown in **Figure 1**. This sampling was conducted in accordance with the approved site Water Quality Monitoring Plan[1]. Also included in the analysis were trip and field blanks for quality control. Surface water samples were collected from two locations (SWPT-1 and SWPT-2) up and downstream from the landfill on Middle Creek.

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (NCDENR, DWM). The depth to water in each well was gauged prior to purging and sampling. Field measurements of pH, specific conductivity, and temperature were obtained from each well. Water table elevations and field parameter results are included in **Tables 1 and 2**, respectively.

All samples were collected by Johnston County personnel in laboratory prepared containers for the specified analytical procedures. Samples were obtained through dedicated Micropurge low flow pumps (MW-3, MW-4B, MW-6, MW-7, MW-10, MW-11, & MW-12b) or by disposable teflon bailers (MW-5A, MW-7d, MW-8a, MW-8d, MW-9c, MW-9d, MW-14d, MW-15d, MW-16d, MW-17& PZ-3). Ground water samples were properly preserved, placed on ice, and transported to the laboratory facility, Environment 1, Inc., within the specified holding times for each analysis.

3.0 Field and Laboratory Results

1 G.N. Richardson and Associates, Inc. Permit to Construct Application (Design Hydrogeologic Report), Johnston County MSW Landfill- Phase 4a, Volume 2 of 2, (Appendix J). January 2002.

3.1 Laboratory Analysis

The ground and surface water samples were transported to Environment 1, Inc., a North Carolina certified laboratory (NC Wastewater ID #10) for analysis. Laboratory analysis for wells associated with Phases 1 through 4 consisted of the full suite of RCRA Subtitle D Appendix II constituents. The wells associated with Phase 4a (MW-8a and MW-17) had samples analyzed for Appendix I constituents. Surface water samples were analyzed for Appendix I constituents only. Parameters were reported at NC DWM Solid Waste Section Limits (SWSLs)[2]. The laboratory analytical report is included as **Appendix A**.

3.2 Field and Laboratory Results

The field parameter results (**Table 2**) have remained consistent with previous sampling events. Detected constituents are presented in **Table 3 & 4.**

Seven (7) inorganic constituents were detected in twelve (12) wells: arsenic, barium, cobalt, copper, lead, total chromium and zinc. Two (2) constituents were detected above the 2L standard (NCAC T15A:2L.0202(g)):

- cobalt; and
- lead.

These are summarized in **Table 3**. Cobalt was detected at concentrations above the 2L standard because no 2L standard is assigned.

Six (6) volatile organic constituents were detected in seven (7) wells: 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2 dichloroethene and vinyl chloride, shown in **Table 4**. Three (3) constituents were found at concentrations above the 2L standard:

- 1,4-dichlorobenzene;
- benzene; and
- vinyl chloride.

These are summarized in **Table 4**.

None of the analyzed constituents were detected in any of the surface water samples. Constituents detected below the SWSL are denoted as "J" values and are also included in **Tables 3 and 4**.

4.0 Statistical Analysis and Results

4.1 Statistical Analysis

The laboratory data from the sampling event was reviewed and analyzed in order to evaluate trends and changes in the results as well as statistically significant differences between up and down gradient wells. Data entry and analysis was performed using the Chempoint/Chemstat

2 New Guidelines for electronic submittal of environmental monitoring data memo, NCDENR DWM, Solid Waste Section, October 27, 2006.

statistical software package developed specifically for RCRA Subtitle D sites (Starpoint Software, Cincinnati, OH). Chemstat follows EPA and DWM protocols for approved statistical analysis methods for groundwater data.

The data from this monitoring event were added to our existing database for this site. The data were reviewed to evaluate the most appropriate analysis methods. Non-parametric testing methods were used on most wells due to the lack of normality in the data. Statistical analysis was performed using MW-3 as the upgradient or background well and MW-4B, MW-4d, MW-5a, MW-6, MW-7, MW-7d, MW-8a, MW-8d, MW-9c, MW-9d, MW-10, MW-11, MW-12b, MW-14d, MW-15d, MW-16d & PZ-3 as the down gradient or compliance wells. Additionally, the two monitoring wells associated with Phase 4a (MW-8a and MW-17), were also statistically analyzed using MW-3 as the upgradient well. These wells were analyzed with Phases 1 through 4 due to their close proximity to unlined Phases 3 and 4. The statistical analysis reports are summarized in **Table 5**. Statistically significant differences from background concentrations (**Table 5**) were found for:

- arsenic (MW-4B, MW-7);
- barium (MW-4B);
- cobalt (MW-12b, MW-17, MW-4B, MW-6, MW-7, MW-7d, MW-8a, MW-8d, MW-9c);
- lead (MW-17);
- total chromium (MW-17);
- zinc (MW-10, MW-17 & MW-9c);
- 1,4-dichlorobenzene (MW-12b, MW-14d, MW-17, MW-4B, MW-7, MW-7d & PZ-3);
- chlorobenzene (Mw-12b, MW-14d, MW-17, MW-4B, MW-7,, MW-7d & PZ-3); and
- cis-1,2-dichloroethene (MW-14d, MW-7d).

During statistical analysis, time vs. concentration graphs were also reviewed. These graphs indicate the detected concentrations are generally stable at the site. These graphs are included in **Appendix B**.

4.2 2L/MCL Statistical Analysis

For wells that showed statistically significant differences from background concentrations, additional analysis was performed. This analysis has recently been required as part of ongoing Assessment monitoring for landfills in North Carolina. To perform the analysis, the respective 2L standard or MCL was determined for each parameter with statistically significant results. Each compliance well with statistical significance was re-analyzed against the lower of the 2L or MCL standard as a Ground Water Protection Standard (GWPS).

The statistical results for this additional analysis are presented in **Table 5**. An upper tolerance limit higher than the GWPS standard was considered to be a statistically significant result. This analysis indicated statistically significant results for:

- arsenic (MW-4B, MW-7);
- barium (MW-4B);
- cobalt (MW-12b, MW-17, MW-4B, MW-6, MW-7, MW-7d, MW-8a, MW-8d, MW-9c);
- lead (MW-17)
- total chromium (MW-17);
- zinc (MW-10, MW-17 & MW-9c); and

- 1,4-dichlorobenzene (MW-12b, MW-14d, MW-17, MW-4B, MW-7, MW-7d & PZ-3).

5.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected. The data indicates that ground water is flowing generally to the north towards Middle Creek. This is consistent with ground water flow patterns previously detected for the site. The potentiometric surface map is attached as **Figure 1**.

Ground water flow velocities during the sampling event were calculated for each monitoring well using the equation: $V = KI/n$

where K = hydraulic conductivity
I = ground water gradient
n = porosity

Ground water flow velocities ranged from 0.039 ft/day (MW-11) to 2.496 ft/day (MW-5A). These calculated flow velocities are included in **Table 1**.

6.0 Conclusions

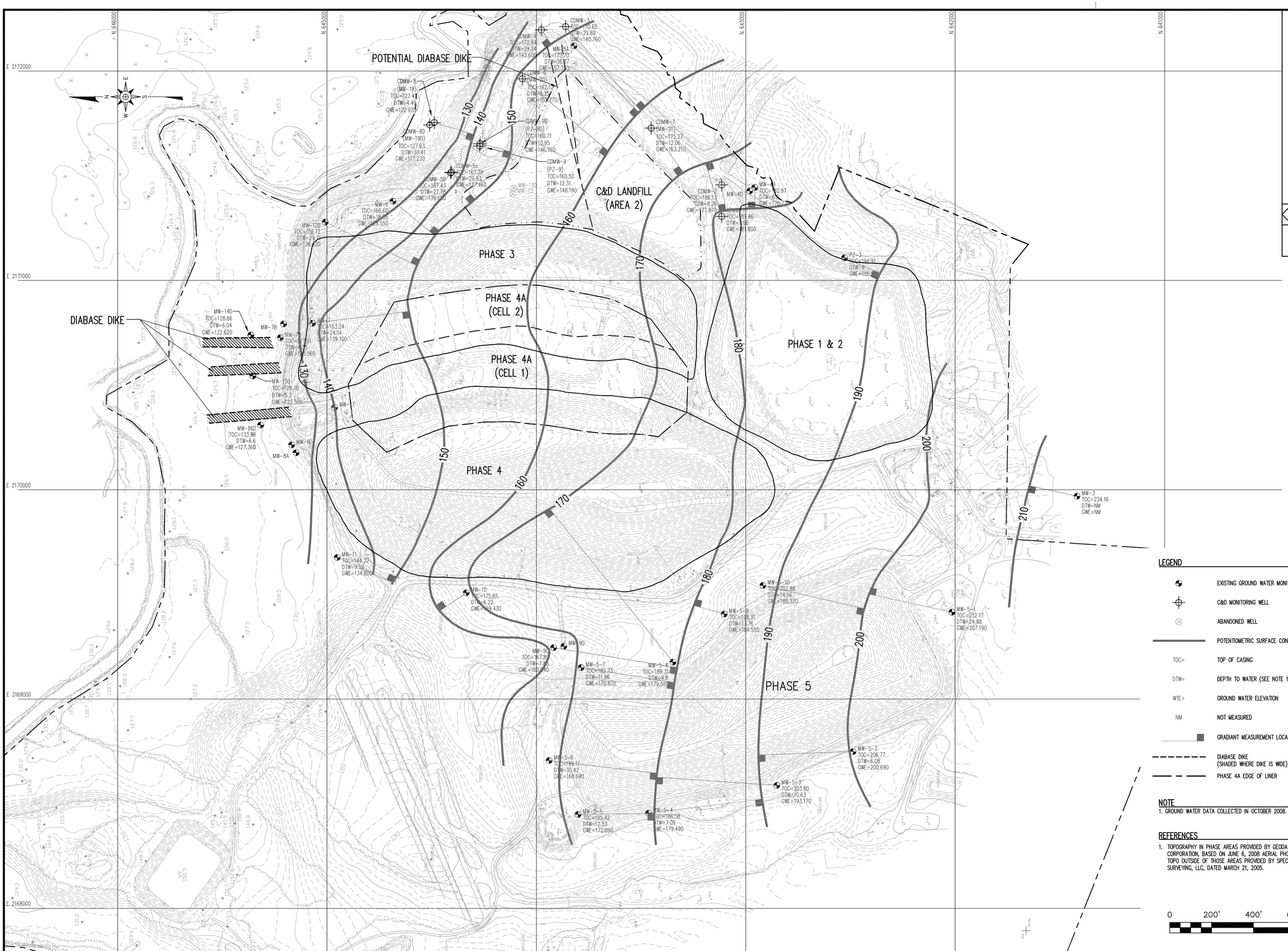
The data and analyses from Phases 1 through 4, and 4a show relatively stable ground water quality at the Johnston County Landfills indicating impact from the unlined landfills. Elevated inorganic constituents appear to be due to high turbidity levels.

It should be noted that remedial strategies are ongoing at the site. These include the construction of Phase 4A (a double-lined landfill) as a "piggy-back" over unlined Phases 3 and 4 which has reduced rainwater infiltration into the unlined landfills. Additionally, a lined C&D landfill has been constructed over a portion of Phase 3 to further reduce rainwater infiltration and the production of leachate. Due to these strategies, ground water quality is expected to improve over time.

It should be noted that the two monitoring wells from Phase 4a were analyzed with Phases 1 through 4 due to the close proximity of these wells to the unlined Phases 3 and 4. Since MW-17 is located immediately adjacent to the base of Phase 3, it is likely an indicator of impact from the unlined landfill, rather than an indicator of impact from Phase 4a (a double-lined landfill).

The next semi-annual sampling event will be performed in spring 2009. These results will be reported upon receipt of the laboratory data and completion of the statistical analyses.

Figures



REVISION | DATE | NO.

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SEAL

PROJECT TITLE:
JOHNSTON COUNTY LANDFILL
SMITHFIELD, NORTH CAROLINA

DRAWING TITLE:
GROUND WATER
POTENTIOMETRIC SURFACE MAP
OCTOBER 2008

DESIGNED BY: K.B.S.	DRAWN BY: W.R.B.
CHECKED BY:	PROJECT NO.: JOHN-4
SCALE: AS SHOWN	DATE: Dec. 2008
FILE NAME: JOHN-D0552	
SHEET NO.	DRAWING NO. FIG. 1

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Tables

Table 1
Johnston County Phases 1 - 4, and 4A
Ground Water Elevations & Velocities
October 13th-16th, 2008

Well	Northing	Easting	TOC Elevation	Water Level	GW Elev	Hyd. Cond.	Porosity	Gradient	Velocity
			(feet)	(feet)	(feet)	(ft/day)	(%)	(ft/ft)	(ft/day)
MW-3	641418.01	2169969.56	234.16	BPH	NM	18.288	0.2	NA	NA
MW-4B	642957.03	2171444.05	182.97	6.2	176.77	nm	nm	0.032	NA
MW-4d*	642980.96	2171427.56	nm	2.81	nm	nm	nm	NA	NA
MW-5A	643820.20	2172120.74	173.70	16.37	157.33	25.344	0.2	0.0197	2.496
MW-6	644684.58	2171378.66	166.60	38.05	128.55	1.829	0.2	0.0825	0.754
MW-7	645068.98	2170795.87	163.24	24.14	139.10	6.941	0.2	0.023	0.798
MW-7b	645206.96	2170792.55	nm	nm	nm	nm	nm	NA	NA
MW-7d*	645222.32	2170726.50	127.91	4.35	123.56	nm	nm	NA	NA
MW-8a	645147.30	2170177.01	nm	5.43	nm	nm	nm	NA	NA
MW-8d*	645168.55	2170214.84	nm	5.53	nm	1.570	nm	NA	NA
MW-9c	643917.72	2169245.90	167.89	7.85	160.04	4.709	0.2	0.033	0.777
MW-9d*	643868.45	2169252.80	nm	9.5	nm	nm	nm	NA	NA
MW-10	644334.57	2169508.35	175.65	6.22	169.43	0.199	0.2	0.062	0.062
MW-11	644950.77	2169676.72	144.32	9.52	134.80	0.148	0.2	0.052	0.039
MW-12b	645008.00	2171279.00	156.14	29.71	126.43	nm	nm	0.048	NA
MW-13	644112.50	2171413.83	179.57	nm	nm	0.549	0.2	NA	NA
MW-13d*	644108.25	2171440.53	172.70	nm	nm	nm	nm	NA	NA
MW-14d*	645363.72	2170739.06	128.66	6.04	122.62	nm	nm	NA	NA
MW-15d*	645354.15	2170543.68	128.70	5.2	123.50	nm	nm	NA	NA
MW-16d*	645317.05	2170309.20	133.96	6.6	127.36	nm	nm	NA	NA
MW-17	644963.10	2170393.58	nm	17.75	nm	nm	nm	NA	NA
PZ-3	642528.15	2171107.90	194.91	9	185.91	nm	nm	0.021	NA

Velocity Calculated from V=K*I/n
V = velocity
K = Hydraulic Conductivity
I = Gradient
n = Porosity
Hydraulic Conductivity data from April 1998 field testing
Porosity values assumed from Groundwater & Wells (Driscoll)
NA = not applicable
nm = not measured
BPH = Below Pump Head
* Deep wells not included in gradient calculation

Table 2
Johnston County Phases 1 - 4, and 4A
Field Parameters
October 13th-16th, 2008

Well Identification #	Static Water Level (ft) * (DTW)	Temperature (°Celsius)	Turbidity (NTU)	Specific Conductivity (uS/cm)	pH
MW – 3	BPH	20.22	4.26	40	4.38
MW – 4B	6.2	20.21	31.3	1840	6.31
MW – 4d	2.81	19.28	3.48	110	6.04
MW – 5A	16.37	17.2	37.1	28	5.56
MW – 6	38.05	19.67	30.7	314	5.95
MW – 7	24.14	20.89	2.57	1850	6.19
MW – 7d	4.35	19.38	7.32	1135	6.15
MW - 8a	5.43	19.47	71.2	460	5.76
MW – 8d	5.53	17.55	5.77	525	5.9
MW – 9c	7.85	16.72	17.2	145	4.63
MW – 9d	9.5	19.18	2.45	142	6.78
MW – 10	6.22	18.66	163	102	6.26
MW – 11	9.52	18.46	3.26	152	6.14
MW – 12b	29.71	18.56	1.64	540	5.66
MW – 14d	6.04	16.09	4.13	701	6.88
MW – 15d	5.2	17.34	28	308	6.81
MW – 16d	6.6	17.91	4.49	344	5.53
MW – 17	17.75	19.94	134	1200	6.08
Piezometer #3	9	21.32	11.3	559	5.95
SWPT-1A	nm	17.71	9.08	186	7.17
SWPT-2	nm	17.73	12.3	183	7.12

nm = not measured
BPH = Below Pump Head
Note: Data collected by Kevin Shields of Johnston County

Table 3
Johnston County Phases 1 - 4 and Phase 4A
Detected Inorganic Constituents
October 13th-16th, 2008

Constituents	SWSL	2L	MW-3	MW-4B	MW-4D	MW-5A	MW-6	MW-7	MW-7d	MW-8a	MW-8d	MW-9c	MW-9D	MW-10	MW-11	MW-12b	MW-14d	MW-15d	MW-16d	MW-17	PZ-3	SW-1A	SW-2
Antimony	6	---	0.1 J	0.1 J	ND	ND	0.6 J	0.2 J	ND	ND	ND	ND	0.1 J	0.1 J	ND	ND	0.1 J	0.2 J	0.4 J	0.4 J	0.5 J	0.1 J	0.1 J
Arsenic	10	50	ND	**11**	0.3 J	ND	1.2 J	**16**	6.4 J	2.5 J	3 J	0.8 J	0.4 J	0.3 J	1.8 J	1.8 J	1.2 J	3 J	1.4 J	7 J	5.5 J	1 J	0.9 J
Barium	100	2000	15.8 J	**1236**	25.7 J	7.6 J	35.4 J	**423**	31.3 J	**118**	85.7 J	22.5 J	4.9 J	35.4 J	15 J	79.4 J	2.9 J	35.3 J	**127**	**195**	56.5 J	33.7 J	29.9 J
Beryllium	1	---	0.1 J	ND	ND	0.2 J	0.1 J	ND	ND	0.2 J	ND	0.7 J	ND	0.2 J	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND
Cadmium	1	1.75	0.1 J	ND	0.2 J	0.1 J	0.1 J	ND	0.1 J	0.2 J	0.1 J	0.2 J	0.1 J	0.1 J	ND	0.1 J	0.4 J	0.1 J	0.1 J	0.6 J	0.1 J	ND	ND
Cobalt	10	---	0.3 J	**32**	5.2 J	2.7 J	**81**	**76**	**28**	**28**	**64**	**16**	1.6 J	9.7 J	6 J	**235**	0.8 J	1.8 J	1 J	**362**	0.3 J	1 J	0.7 J
Copper	10	1000	0.5 J	1.9 J	0.1 J	1.3 J	0.9 J	2 J	0.8 J	7.5 J	1.3 J	9.7 J	0.3 J	3.4 J	0.1 J	0.6 J	4.2 J	3.9 J	1.2 J	**69**	1.2 J	1.5 J	1.5 J
Lead	10	15	0.3 J	0.1 J	ND	1 J	0.3 J	0.1 J	0.1 J	7 J	0.5 J	3.8 J	0.1 J	1.8 J	ND	0.1 J	3 J	8 J	1 J	**31**	0.3 J	0.4 J	0.5 J
Mercury	0.2	1.05	0.08 J	0.06 J	0.04 J	0.04 J	0.11 J	0.06 J	0.07 J	ND	0.05 J	0.04 J	0.04 J	0.04 J	0.04 J	0.08 J	ND	ND	ND	ND	0.05 J	ND	ND
Nickel	50	100	0.8 J	6.4 J	4.3 J	4.2 J	5.8 J	42.4 J	18.2 J	7 J	3.2 J	17.8 J	0.5 J	11.4 J	0.6 J	10 J	3.8 J	4.5 J	2.4 J	22.1 J	0.8 J	1.7 J	1.7 J
Selenium	10	50	ND	ND	ND	ND	0.7 J	ND	ND	5.1 J	8.2 J	2.3 J	0.3 J	0.7 J	0.3 J	1.8 J	4.6 J	1.3 J	4 J	ND	1.7 J	0.8 J	0.3 J
Silver	10	17.5	0.1 J	0.1 J	ND	ND	0.1 J	ND	ND	0.1 J	ND	0.1 J	ND	ND	ND	ND	0.2 J	0.1 J	0.1 J	0.1 J	0.1 J	ND	ND
Thallium	5	---	0.1 J	0.3 J	ND	ND	0.1 J	ND	ND	ND	ND	ND	ND	0.1 J	ND	0.1 J	0.1 J	ND	0.1 J	0.2 J	ND	ND	ND
Tin	100		2.2 J	2.4 J	2.2 J	2.1 J	2 J	2.4 J	1.8 J	ND	1.4 J	1.6 J	1.5 J	1.3 J	1 J	1.2 J	ND	ND	ND	ND	0.8 J	ND	ND
Total Chromium	10	50	0.3 J	0.6 J	ND	1.8 J	0.7 J	0.5 J	ND	6.2 J	0.7 J	3.5 J	ND	2.6 J	ND	0.2 J	1.1 J	3.1 J	2.4 J	**14**	1.4 J	0.3 J	0.4 J
Vanandium	25	---	0.5 J	0.4 J	0.2 J	1.3 J	0.5 J	0.7 J	0.4 J	6.8 J	1.2 J	3.5 J	0.5 J	2 J	0.4 J	0.3 J	1.1 J	2.1 J	3.6 J	9.8 J	4.9 J	1.6 J	1.9 J
Zinc	10	1050	0.7 J	0.4 J	9.2 J	**12**	4.2 J	0.5 J	5.3 J	**17**	3.5 J	**76**	4 J	**33**	2.4 J	5.6 J	3.6 J	**10**	2.6 J	**74**	2.5 J	6.6 J	4.6 J

SWSL	-	Solid Waste Section Limit
ND	-	Not detected at or above SWSL
Shading	-	Levels above 2L standard or not 2L standard
Bold Letters	-	Constituent detected above SWSL
J	-	Detected constituents below SWSL limit

All SWSL, 2L Standards and Results are in ug/l.

Table 4
Johnston County Phases 1 - 4 and Phase 4A
Detected Organic Constituents
October 13th-16th, 2008

Constituents	SWSL	2L	MW-3	MW-4B	MW-4D	MW-5A	MW-6	MW-7	MW-7d	MW-8a	MW-8d	MW-9c	MW-9d	MW-10	MW-11	MW-12b	MW-14d	MW-15d	MW-16d	MW-17	PZ-3	SW-1A	SW-2
1,1-Dichloroethane	5	70	ND	ND	ND	0.9 J	ND	2 J	3.3 J	1.5 J	2 J	ND	0.7 J	ND	1.2 J	1.7 J	**5**	ND	0.2 J	2.3 J	ND	ND	ND
1,2,4-Trichlorobenzene	10	---	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	---	ND	0.8 J	ND	ND	ND	1.3 J	0.4 J	ND	ND	ND	ND	ND	ND	1.2 J	0.2 J	ND	ND	1.1 J	1.3 J	ND	ND
1,2-Dichloroethane	1	0.38	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J	0.2 J	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	0.51	ND	ND	ND	ND	ND	0.3 J	0.5 J	0.2 J	0.4 J	ND	ND	ND	ND	0.5 J	0.8J	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	170	ND	ND	ND	ND	ND	1 J	0.3 J	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	0.3 J	ND	ND
1,4-Dichlorobenzene	1	1.4	ND	**5**	ND	ND	ND	**10.5**	**6.1**	0.6 J	**1**	ND	ND	ND	ND	**9.3**	**2.3**	ND	ND	**5.5**	**8.2**	ND	ND
2-Butanone	100	---	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4-DDT	0.1	---	ND	ND	ND	ND	ND	0.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	100	700	6.9 J	11.8 J	5.2 J	6 J	6.7 J	11.9 J	6 J	7.5 J	12.5 J	6.5 J	7.1 J	7.6 J	7.2 J	10.9 J	5.5 J	7 D	6.3 J	7.4 J	7.6 J	10.8 J	7.6 J
Benzene	1	1	ND	**3.9**	ND	ND	ND	**1.9**	0.7 J	0.5 J	0.5 J	ND	0.2 J	ND	ND	**1.5**	0.4 J	ND	ND	**2.2**	0.7 J	ND	ND
Chlorobenzene	3	50	ND	**12**	ND	ND	ND	**22.1**	**8.1**	1.1 J	1.3 J	ND	ND	ND	ND	**17.1**	**3**	ND	ND	**7.8**	**10.9**	ND	ND
Chloroethane	10	2.8	ND	0.8 J	ND	ND	ND	1.6 J	ND	0.7 J	0.8 J	ND	ND	ND	ND	1.1 J	0.4 J	ND	ND	1.4 J	ND	ND	ND
Chloroform	5	70	0.7 J	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1	2.6	ND	ND	ND	ND	0.3 J	ND	0.2 J	ND	0.3 J	ND	0.4 J	ND	0.2 j	ND	ND	0.3 J	ND	ND	ND	0.2 J	ND
Cis-1,2-Dichloroethene	5	70	ND	0.3 J	ND	ND	0.4 J	0.4 J	**6.5**	0.5 J	0.7 J	ND	ND	ND	ND	0.6 J	**7.4**	ND	ND	0.5 J	0.4 J	ND	ND
Cis-1,3-Dichloroethene	1	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	0.2 J
Methylene Chloride	1	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	21	ND	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND
Dichlorodifluoromethane	5	1400	ND	0.5 J	ND	ND	ND	ND	0.2 J	ND	0.2 J	ND	0.8 J	ND	0.3 J	ND	ND	ND	ND	ND	0.2 J	ND	ND
Ethylbenzene	1	550	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	1000	ND	0.3 J	ND	ND	ND	0.3 J	0.2 J	0.2 J	0.3 J	ND	ND	ND	ND	0.3 J	0.2 J	0.2 J	0.2 J	0.4 J	ND	ND	ND
Trans-1,2-Dichloroethene	5	100	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND
Trichloroethene	1	2800	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	0.015	ND	**2.5**	ND	ND	ND	0.7 J	**1.6**	0.4 J	0.6 J	ND	ND	ND	ND	0.9 J	0.8 J	ND	ND	**1.9**	0.4 J	ND	ND
Xylenes	5	530	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SWSL	-	Solid Waste Section Limit
ND	-	Not detected at or above SWSL
Shading	-	Levels above 2L standard or no 2L standard
Bold Letters	-	Constituent detected above SWSL
J	-	Detected constituents below SWSL limit

All SWSLs, 2L Standards and Results are in ug/l.

Table 5
Johnston County Phases 1 - 4 and Phase 4A
Statistical Analysis Summary
October 13th-16th, 2008

Location	Parameter	Result	Detection Limit	Test Units	%ND	CL%	Test	Statistically Significant?	2nd statistical Analysis	Test
MW-14d	1,1-Dichloroethane	5	<5	ug/l	90.3	---	PPL	N	---	---
MW-12b	1,4-Dichlorobenzene	9.3	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-14d	1,4-Dichlorobenzene	2.3	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-17	1,4-Dichlorobenzene	5.5	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-4B	1,4-Dichlorobenzene	5	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-7	1,4-Dichlorobenzene	10.5	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-7d	1,4-Dichlorobenzene	6.1	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-8d	1,4-Dichlorobenzene	1	<1	ug/l	40.3	---	WILCOXON	N	---	---
PZ-3	1,4-Dichlorobenzene	8.2	<1	ug/l	40.3	---	WILCOXON	Y	Y	MCL-PTI
MW-7	4,4-DDT	0.53	<0.1	ug/l	95	---	PPL with 1/2 DL	N	---	---
MW-4B	Arsenic	0.011	<0.010	mg/l	76	93.8	NPPL	Y	Y	MCL-PTI
MW-7	Arsenic	0.016	<0.010	mg/l	76	93.8	NPPL	Y	Y	MCL-PTI
MW-16d	Barium	0.127	<0.1	mg/l	51	86.7	NPTL	N	---	---
MW-17	Barium	0.195	<0.1	mg/l	51	86.7	NPTL	N	---	---
MW-4B	Barium	1.236	<0.1	mg/l	51	86.7	NPTL	Y	Y	MCL-PTI
MW-7	Barium	0.423	<0.1	mg/l	51	86.7	NPTL	N	---	---
MW-8a	Barium	0.118	<0.1	mg/l	51	86.7	NPTL	N	---	---
MW-12b	Benzene	1.4	<1	ug/l	76.37	88	NPTL	N	---	---
MW-17	Benzene	2.2	<1	ug/l	76.37	88	NPTL	N	---	---
MW-4B	Benzene	3.9	<1	ug/l	76.37	88	NPTL	N	---	---
MW-7	Benzene	1.9	<1	ug/l	76.37	88	NPTL	N	---	---
MW-12b	Chlorobenzene	17.1	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
MW-14d	Chlorobenzene	3	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
MW-17	Chlorobenzene	7.8	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
MW-4B	Chlorobenzene	12	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
MW-7	Chlorobenzene	22.1	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
MW-7d	Chlorobenzene	8.1	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
PZ-3	Chlorobenzene	10.9	<3	ug/l	26.13	---	WILCOXON	Y	N	MCL-PTI
MW-14d	Cis-1,2-Dichloroethene	7.4	<5	ug/l	56.6	93.8	NPPL	Y	N	MCL-PTI
MW-7d	Cis-1,2-Dichloroethene	6.5	<5	ug/l	56.6	93.8	NPPL	Y	N	MCL-PTI
MW-12b	Cobalt	0.235	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-17	Cobalt	0.362	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI

Table 5
Johnston County Phases 1 - 4 and Phase 4A
Statistical Analysis Summary
October 13th-16th, 2008

MW-4B	Cobalt	0.032	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-6	Cobalt	0.081	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-7	Cobalt	0.076	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-7d	Cobalt	0.028	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-8a	Cobalt	0.028	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-8d	Cobalt	0.064	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-9c	Cobalt	0.016	<0.010	mg/l	18	---	WILCOXON	Y	Y	MCL-PTI
MW-17	Copper	0.069	<0.010	mg/l	62	96.8	NPPL	N	---	---
MW-17	Lead	0.031	<0.010	mg/l	42.2	---	WILCOXON	Y	Y	MCL-PTI
MW-17	Total Chromium	0.014	<0.010	mg/l	48	---	WILCOXON	Y	Y	MCL-PTI
MW-17	Vinyl Chloride	1.9	<1	ug/l	87.9	---	NPPL	N	---	---
MW-4B	Vinyl Chloride	2.5	<1	ug/l	87.9	---	NPPL	N	---	---
MW-7d	Vinyl Chloride	1.6	<1	ug/l	87.9	---	NPPL	N	---	---
MW-10	Zinc	0.033	<0.010	mg/l	39.28	---	WILCOXON	Y	Y	MCL-PTI
MW-15d	Zinc	0.01	<0.010	mg/l	39.28	---	WILCOXON	N	---	---
MW-17	Zinc	0.074	<0.010	mg/l	39.28	---	WILCOXON	Y	Y	MCL-PTI
MW-5A	Zinc	0.012	<0.010	mg/l	39.28	---	WILCOXON	N	---	---
MW-8a	Zinc	0.017	<0.010	mg/l	39.28	---	WILCOXON	N	---	---
MW-9c	Zinc	0.076	<0.010	mg/l	39.28	---	WILCOXON	Y	Y	MCL-PTI

Legend:

%ND	Method chosen due to percent non-detects
NPTL	Non-Parametric Tolerance Limit
KW	Kruskal-Wallis Non-Parametric Test
WRS	Wilcoxon Rank Sum Test

Highlighting indicates statistical significance.

Notes:
MW-3 was used as the background well

Appendix A

Laboratory Analytical Report

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Richardson Smith Gardner and Associates, Inc.

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

Name: Joan A. Smyth, P.G. Phone: 919-828-0577 x 122

E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Johnston County Phase 1- 4 Landfill and Phase 4A landfill	680 County Home Road	51-03	.0500 and .1600	10/13/08 - 10/16/08

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.

Joan A. Smyth, P.G.	Senior Hydrogeologist	919-828-0577 x122
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Joan A. Smyth 12/12/08
Signature Date

Affix NC Licensed Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1369 GEOLOGIST JOAN A. SMYTH

Revised 01/2007

Fall 2008 Ground Water Monitoring Report

Johnston County Landfill
Phases 1 through 4 and Phases 4A
Smithfield, North Carolina
NC Solid Waste Permit # 51-01 and 51-02

Prepared for:

Johnston County Department of Public Utilities
309 East Market Street
Smithfield, North Carolina 27577

RSG Project No. **Johnston - 4**

Joan A. Smyth 12/12/08

Joan A. Smyth, P.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1369 GEOLOGIST JOAN A. SMYTH

December 2008

RICHARDSON SMITH GARDNER & ASSOCIATES
Engineering and Geological Services
14 N. Boylan Avenue
Raleigh, North Carolina 27603

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

REC'D DEC 02

ID#: 6031

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/13/08
DATE REPORTED : 11/21/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-8A	MW-17	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.44	6.0	--- U	0.4 J	02/17/08	LFJ	EPA200.8
Arsenic, ug/l	0.57	10.0	2.5 J		10/21/08	LFJ	EPA200.8
Arsenic, ug/l	0.57	10.0		7.0 J	10/29/08	CMF	SM3113B
Barium, ug/l	0.11	100.0	118	195	10/21/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.2 J	0.3 J	02/17/08	LFJ	EPA200.8
Cadmium, ug/l	0.05	1.0	0.2 J	0.6 J	10/21/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	28	362	10/21/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	7.5 J	69	10/21/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	6.2 J	14	10/21/08	LFJ	EPA200.8
Lead, ug/l	0.32	10.0	7 J	31	10/21/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	7 J	22.1 J	10/21/08	LFJ	EPA200.8
Selenium, ug/l	0.51	10.0	5.1 J		10/21/08	LFJ	EPA200.8
Selenium, ug/l	0.51	10.0		--- U	10/31/08	CMF	SM3113B
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	10/21/08	LFJ	EPA200.8
Thallium, ug/l	0.63	5.0	--- U	0.2 J	10/21/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	6.8 J	9.8 J	10/21/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	17	74	10/21/08	LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/13/08
DATE ANALYZED: 10/23/08
DATE REPORTED: 11/21/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-8A	MW-17
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	0.40 J	1.90
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	0.70 J	1.40 J
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	7.50 J	7.40 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	0.20 J
12. 1,1-Dichloroethane	0.16	5.0	1.50 J	2.30 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.50 J	0.50 J
15. 2-Butanone	0.85	100.0	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	0.50 J	2.20
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.20 J	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	0.20 J	0.40 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	1.10 J	7.80
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	0.60 J	5.50
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	1.10 J
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/13/08
DATE REPORTED : 11/04/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1A	SW-2	Piezometer #3	Trip Blank	Equipment Blank	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0			--- U			10/17/08	SEJ	SM4500 CN-
Antimony, ug/l	0.08	6.0	0.1 J	0.1 J	0.5 J			02/17/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	1 J	0.9 J	5.5 J			10/21/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	33.7 J	29.9 J	56.5 J			10/21/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	--- U	--- U			02/17/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	--- U	0.1 J			10/21/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	1 J	0.7 J	0.3 J			10/21/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	1.5 J	1.5 J	1.2 J			10/21/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	0.3 J	0.4 J	1.4 J			10/21/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	0.4 J	0.5 J	0.3 J			10/21/08	LFJ	EPA200.8
Mercury, ug/l	0.01	0.20			0.05 J			10/21/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	1.7 J	1.7 J	0.8 J			10/21/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	0.8 J	0.3 J	1.7 J			10/21/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	0.1 J			10/21/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	--- U	--- U	--- U			10/21/08	LFJ	EPA200.8
Tin, ug/l	0.13	100.0			0.8 J			10/21/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	1.6 J	1.9 J	4.9 J			10/21/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	6.6 J	4.6 J	2.5 J			10/21/08	LFJ	EPA200.8
Sulfide, ug/l	100	1000			--- U			10/16/08	LFJ	SM4500-S2D

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

REVIEWED BY: _____

CLIENT ID: 6031 C

ANALYST: CHS
DATE COLLECTED: 10/13/08
DATE EXTRACTED: 10/17/08
DATE ANALYZED: 10/21/08
DATE REPORTED: 11/04/08

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.07	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.00	--- U

NOTE: Surrogate recovery for Pizometer #3
was outside control limits due to sample interference

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
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P.O. BOX 2263
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REVIEWED BY: _____

CLIENT ID: 6031 C

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DATE COLLECTED: 10/13/08
DATE EXTRACTED: 10/23/08
DATE ANALYZED: 10/24/08
DATE REPORTED: 11/04/08

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
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P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 C

ANALYST: MAO
DATE COLLECTED: 10/13/08
DATE REPORTED: 11/04/08

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	10/23/08 SW-1A	10/24/08 SW-2
1. Chloromethane	0.18	1.0	0.20 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	10.80 J	7.60 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	0.30 J	0.20 J
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U

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Environment 1, Incorporated

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

REVIEWED BY:

CLIENT ID: 6031 C

ANALYST: CHS
DATE COLLECTED: 10/13/08
DATE EXTRACTED: 10/15/08
DATE ANALYZED: 10/30/08
DATE REPORTED: 11/04/08

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- U

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 C

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SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

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SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

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ANALYST: MAO
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REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3	Trip Blank	Equipment Blank
1. Chloromethane	0.18	1.0	--- U	--- U	0.20 J
2. Vinyl Chloride	0.34	1.0	0.40 J	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	7.60 J	1.80 J	4.60 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.40 J	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	0.70 J	0.60 J	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	10.90	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	8.20	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	1.30 J	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U
48. Acrolein	5.46	50.0	--- U	--- U	--- U

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Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 C

ANALYST: MAO
DATE COLLECTED: 10/13/08
DATE ANALYZED: 10/23/08
DATE REPORTED: 11/04/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Piezometer #3	Trip Blank	Equipment Blank
49. Allyl Chloride	0.17	10.0	--- U	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	0.30 J	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	0.20 J	--- U	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U	--- U
61. Naphthalene	0.13	10.0	0.30 J	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U	--- U
64. Acetonitrile	5.96	50.0	--- U	7.80 J	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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ID#: 6031 D

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/13/08
DATE REPORTED : 10/31/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-14D	MW-15D	MW-16D	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.08	6.0	0.1 J	0.2 J	0.4 J	02/17/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	1.2 J	3 J	1.4 J	10/21/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	2.9 J	35.3 J	127	10/21/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	--- U	--- U	02/17/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.4 J	0.1 J	0.1 J	10/21/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.8 J	1.8 J	1 J	10/21/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	4.2 J	3.9 J	1.2 J	10/21/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	1.1 J	3.1 J	2.4 J	10/21/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	3 J	8 J	1.0 J	10/21/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	3.8 J	4.5 J	2.4 J	10/21/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	4.6 J	1.3 J	4 J	10/21/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.2 J	0.1 J	0.1 J	10/21/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	0.1 J	--- U	0.1 J	10/21/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	1.1 J	2.1 J	3.6 J	10/21/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	3.6 J	10	2.6 J	10/21/08	LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 D

ANALYST: MAO
DATE COLLECTED: 10/13/08
DATE ANALYZED: 10/24/08
DATE REPORTED: 10/31/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-14D	MW-15D	MW-16D
1. Chloromethane	0.18	1.0	--- U	--- U	0.30 J
2. Vinyl Chloride	0.34	1.0	0.80 J	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.40 J	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	5.50 J	7.00 J	6.30 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	5.00	--- U	0.20 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	7.40	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	0.40 J	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	0.20 J	--- U	--- U
22. Trichloroethene	0.13	1.0	0.40 J	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.80 J	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U
27. Toluene	0.13	1.0	0.20 J	0.20 J	0.20 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	3.00	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	2.30	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	0.20 J	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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ID#: 6031

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/15/08
DATE REPORTED : 11/07/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-3	MW-4B	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0	--- U	--- U	10/17/08	SEJ	SM4500 CN-E
Antimony, ug/l	0.08	6.0	0.1 J	0.1 J	10/27/08	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	--- U	11	10/27/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	15.8 J	1236	10/27/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	--- U	10/27/08	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	0.1 J	0.2 J	10/27/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.3 J	32	10/27/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	0.5 J	1.9 J	10/27/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	0.3 J	0.6 J	10/27/08	CMF	EPA200.8
Lead, ug/l	0.04	10.0	0.3 J	0.1 J	10/27/08	CMF	EPA200.8
Mercury, ug/l	0.01	0.20	0.08 J	0.06 J	10/27/08	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	0.8 J	6.4 J	10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0	--- U		10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0		--- U	10/31/08	CMF	SM3113B
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	10/27/08	CMF	EPA200.8
Thallium, ug/l	0.63	5.0	0.1 J	0.3 J	10/27/08	CMF	EPA200.8
Tin, ug/l	0.13	100.0	2.2 J	2.4 J	10/27/08	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	0.5 J	0.4 J	10/27/08	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	0.7 J	0.4 J	10/27/08	CMF	EPA200.8
Sulfide, ug/l	100	1000	--- U	--- U	10/21/08	LFJ	SM4500-S2D

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/17/08
DATE ANALYZED: 10/21/08
DATE REPORTED: 11/07/08

REVIEWED BY:

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
1. Aldrin	0.029	0.05	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U
10. Dieldrin	0.042	0.07	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U
20. Toxaphene	0.690	1.00	--- U	--- U

NOTE: Surrogate recovery for MW-4B
was outside control limits

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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GREENVILLE, N.C. 27835-7085

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MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/23/08
DATE ANALYZED: 10/23/08
DATE REPORTED: 11/07/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
1. 2,4-D	0.36	2.0	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U

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GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
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SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/15/08
DATE ANALYZED: 10/27/08
DATE REPORTED: 11/07/08

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Trip Blank
1. Chloromethane	0.18	1.0	--- U
2. Vinyl Chloride	0.34	1.0	--- U
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	2.80 J
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	--- U
10. Methylene Chloride	0.14	1.0	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U
15. 2-Butanone	0.85	100.0	--- U
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U
27. Toluene	0.13	1.0	0.60 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	3.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	--- U
37. Xylenes	0.48	5.0	--- U
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	--- U
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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GREENVILLE, N.C. 27835-7085

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MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE ANALYZED: 11/06/08
DATE REPORTED: 11/07/08

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
1. Acenaphthene	2.66	10.0	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U
20. Diethyl Phthalate	3.92	10.0	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE ANALYZED: 11/06/08
DATE REPORTED: 11/07/08

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
49. 4-Nitrophenol	3.17	50.0	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/15/08
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REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
97. Phorate	3.86	10.0	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/15/08
DATE ANALYZED: 10/27/08
DATE REPORTED: 11/07/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	2.50
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	0.80 J
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	6.90 J	11.80 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	0.30 J
15. 2-Butanone	0.85	100.0	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	0.70 J	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	3.90
21. 1,2-Dichloroethane	0.12	1.0	--- U	0.20 J
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	--- U	0.30 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	12.00
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	0.20 J
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	5.00
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	0.80 J
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U
48. Acrolein	5.46	50.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/15/08
DATE ANALYZED: 10/27/08
DATE REPORTED: 11/07/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-3	MW-4B
49. Allyl Chloride	0.17	10.0	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U	0.50 J
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	0.60 J
62. Propionitrile	1.60	150.0	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U
64. Acetonitrile	5.96	50.0	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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ID#: 6031 A

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/15/08
DATE REPORTED : 11/10/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-4D	MW-5A	MW-7D	MW-8D	MW-9C	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0	--- U	--- U	--- U	--- U	--- U	10/17/08	SEJ	SM4500 CN-
Antimony, ug/l	0.44	6.0	--- U	--- U	--- U	--- U	--- U	10/27/08	CMF	EPA200.8
Arsenic, ug/l	0.57	10.0	0.3 J	--- U	6.4 J	3.0 J	0.8 J	10/27/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	25.7 J	7.6 J	31.3 J	85.7 J	22.5 J	10/27/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	0.2 J	--- U	--- U	0.7 J	10/27/08	CMF	EPA200.8
Cadmium, ug/l	0.05	1.0	--- U	0.1 J	0.1 J	0.1 J	0.2 J	10/27/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	5.2 J	2.7 J	28	64	16	10/27/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	0.1 J	1.3 J	0.8 J	1.3 J	9.7 J	10/27/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	--- U	1.8 J	--- U	0.7 J	3.5 J	10/27/08	CMF	EPA200.8
Lead, ug/l	0.32	10.0	--- U	1.0 J	0.1 J	0.5 J	3.8 J	10/27/08	CMF	EPA200.8
Mercury, ug/l	0.01	0.20	0.04 J	0.04 J	0.07 J	0.05 J	0.04 J	10/27/08	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	4.3 J	4.2 J	18.2 J	3.2 J	17.8 J	10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0	--- U	--- U		8.2 J		10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0			--- U		2.3 J	10/31/08	CMF	SM3113B
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	0.1 J	10/27/08	CMF	EPA200.8
Thallium, ug/l	0.63	5.0	--- U	--- U	--- U	--- U	--- U	10/27/08	CMF	EPA200.8
Tin, ug/l	0.13	100.0	2.2 J	2.1 J	1.8 J	1.4 J	1.6 J	10/27/08	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	0.2 J	1.3 J	0.4 J	1.2 J	3.5 J	10/27/08	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	9.2 J	12	5.3 J	3.5 J	76	10/27/08	CMF	EPA200.8
Sulfide, ug/l	100	1000	--- U	--- U	--- U	--- U	--- U	10/21/08	LFJ	SM4500-S2D

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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ID#: 6031 A

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/15/08
DATE REPORTED : 11/10/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-9D	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0	--- U	10/17/08	SEJ	SM4500 CN-E
Antimony, ug/l	0.44	6.0	0.1 J	10/27/08	CMF	EPA200.8
Arsenic, ug/l	0.57	10.0	0.4 J	10/27/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	4.9 J	10/27/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	10/27/08	CMF	EPA200.8
Cadmium, ug/l	0.05	1.0	0.1 J	10/27/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	1.6 J	10/27/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	0.3 J	10/27/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	--- U	10/27/08	CMF	EPA200.8
Lead, ug/l	0.32	10.0	0.1 J	10/27/08	CMF	EPA200.8
Mercury, ug/l	0.01	0.20	0.04 J	10/27/08	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	0.5 J	10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0	0.3 J	10/27/08	CMF	EPA200.8
Silver, ug/l	0.04	10.0	--- U	10/27/08	CMF	EPA200.8
Thallium, ug/l	0.63	5.0	--- U	10/27/08	CMF	EPA200.8
Tin, ug/l	0.13	100.0	1.5 J	10/27/08	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	0.5 J	10/27/08	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	4.0 J	10/27/08	CMF	EPA200.8
Sulfide, ug/l	100	1000	--- U	10/21/08	LFJ	SM4500-S2D

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
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REVIEWED BY:

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/17/08
DATE ANALYZED: 10/21/08
DATE REPORTED: 11/10/08

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	MW-9D
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.07	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.00	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/17/08
DATE ANALYZED: 10/21/08
DATE REPORTED: 11/10/08

REVIEWED BY: _____

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	MW-4D	MW-5A	MW-7D	MW-8D	MW-9C
1. Aldrin	0.029	0.05	--- U	--- U	--- U	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U	--- U	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U	--- U	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U	--- U	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U	--- U	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U	--- U	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U	--- U	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U	--- U	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U	--- U	--- U	--- U
10. Dieldrin	0.042	0.07	--- U	--- U	--- U	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U	--- U	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U	--- U	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U	--- U	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U	--- U	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U	--- U	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U	--- U	--- U	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U	--- U	--- U	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U	--- U	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U	--- U	--- U	--- U
20. Toxaphene	0.690	1.00	--- U	--- U	--- U	--- U	--- U

NOTE: Surrogate recovery for MW-8D
was outside control limits

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
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SMITHFIELD, NC 27577

REVIEWED BY:

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/23/08
DATE ANALYZED: 10/24/08
DATE REPORTED: 11/10/08

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	MW-4D	MW-5A	MW-7D	MW-8D	MW-9C
1. 2,4-D	0.36	2.0	--- U	--- U	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U	--- U	--- U

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P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

REVIEWED BY:

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/23/08
DATE ANALYZED: 10/24/08
DATE REPORTED: 11/10/08

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	MW-9D
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/10/08

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	11/06/08 MW-4D	11/07/08 MW-5A	11/07/08 MW-7D	11/07/08 MW-8D	11/07/08 MW-9C
Date Analyzed:							
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	10.0	--- U	--- U	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	--- U	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U	--- U	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/10/08

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	11/06/08 MW-4D	11/07/08 MW-5A	11/07/08 MW-7D	11/07/08 MW-8D	11/07/08 MW-9C
Date Analyzed:							
48. 2-Nitrophenol	3.64	10.0	--- U	--- U	--- U	--- U	--- U
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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FAX (252) 756-0633

CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/10/08

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	11/06/08 MW-4D	11/07/08 MW-5A	11/07/08 MW-7D	11/07/08 MW-8D	11/07/08 MW-9C
Date Analyzed:							
95. Phenacetin	4.41	20.0	--- U	--- U	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U	--- U	--- U	--- U	--- U
97. Phorate	3.86	10.0	--- U	--- U	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
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SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 11/07/08 MW-9D
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/10/08

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 11/07/08 MW-9D
48. 2-Nitrophenol	3.64	10.0	--- U
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: CHS
DATE COLLECTED: 10/15/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/10/08

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 11/07/08 MW-9D
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: MAO
DATE COLLECTED: 10/15/08
DATE ANALYZED: 10/27/08
DATE REPORTED: 11/10/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-4D	MW-5A	MW-7D	MW-8D	MW-9C
1. Chloromethane	0.18	1.0	--- U	--- U	0.20 J	0.30 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	1.60	0.60 J	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	0.80 J	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	5.20 J	6.00 J	6.00 J	12.50 J	6.50 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	0.90 J	3.30 J	2.00 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	6.50	0.70 J	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	1.00 J	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	0.20 J	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	0.70 J	0.50 J	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	0.30 J	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	0.50 J	0.40 J	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	0.20 J	0.30 J	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	8.10	1.30 J	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	6.10	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	0.40 J	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U
48. Acrolein	5.46	50.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: MAO
DATE COLLECTED: 10/15/08
DATE ANALYZED: 10/27/08
DATE REPORTED: 11/10/08

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-4D	MW-5A	MW-7D	MW-8D	MW-9C
49. Allyl Chloride	0.17	10.0	--- U	--- U	--- U	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	--- U	0.30 J	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U	--- U	0.20 J	0.20 J	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U	--- U	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	--- U	--- U	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U	0.30 J	--- U	--- U
64. Acetonitrile	5.96	50.0	--- U	--- U	--- U	--- U	--- U

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LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-9D
1. Chloromethane	0.18	1.0	0.40 J
2. Vinyl Chloride	0.34	1.0	--- U
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	7.10 J
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	--- U
10. Methylene Chloride	0.14	1.0	0.40 J
11. trans-1,2-Dichloroethene	0.13	5.0	--- U
12. 1,1-Dichloroethane	0.16	5.0	0.70 J
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U
15. 2-Butanone	0.85	100.0	--- U
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	0.20 J
21. 1,2-Dichloroethane	0.12	1.0	--- U
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U
27. Toluene	0.13	1.0	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	3.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	--- U
37. Xylenes	0.48	5.0	--- U
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	--- U
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U
48. Acrolein	5.46	50.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031 A

ANALYST: MAO
DATE COLLECTED: 10/15/08
DATE ANALYZED: 10/27/08
DATE REPORTED: 11/10/08

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-9D
49. Allyl Chloride	0.17	10.0	--- U
50. Chloroprene	0.16	20.0	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U
52. Dichlorodifluoromethane	0.16	5.0	0.80 J
53. 1,3-Dichloropropane	0.12	1.0	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U
59. Methacrylonitrile	1.64	100.0	--- U
60. Methyl Methacrylate	0.10	30.0	--- U
61. Naphthalene	0.13	10.0	--- U
62. Propionitrile	1.60	150.0	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U
64. Acetonitrile	5.96	50.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/16/08
DATE REPORTED : 11/12/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-6	MW-7	MW-10	MW-11	MW-12B	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0	--- U	--- U	--- U	--- U	--- U	10/23/08	SEJ	SM4500 CN-
Antimony, ug/l	0.44	6.0	0.6 J	0.2 J	0.1 J	--- U	--- U	10/27/08	CMF	EPA200.8
Arsenic, ug/l	0.57	10.0	1.2 J	16	0.3 J	1.8 J	1.8 J	10/27/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	35.4 J	423	35.4 J	15.0 J	79.4 J	10/27/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	--- U	0.2 J	--- U	--- U	10/27/08	CMF	EPA200.8
Cadmium, ug/l	0.05	1.0	0.1 J	--- U	0.1 J	--- U	0.1 J	10/27/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	81	76	9.7 J	6.0 J	235	10/27/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	0.9 J	2.0 J	3.4 J	0.1 J	0.6 J	10/27/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	0.7 J	0.5 J	2.6 J	--- U	0.2 J	10/27/08	CMF	EPA200.8
Lead, ug/l	0.32	10.0	0.3 J	0.1 J	1.8 J	--- U	0.1 J	10/27/08	CMF	EPA200.8
Mercury, ug/l	0.01	0.20	0.11 J	0.06 J	0.04 J	0.04 J	0.08 J	10/27/08	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	5.8 J	42.4 J	11.4 J	0.6 J	10.0 J	10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0	0.7 J		0.7 J			10/27/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0		--- U		0.3 J	1.8 J	10/31/08	CMF	SM3113B
Silver, ug/l	0.04	10.0	0.1 J	--- U	--- U	--- U	--- U	10/27/08	CMF	EPA200.8
Thallium, ug/l	0.63	5.0	0.1 J	--- U	0.1 J	--- U	0.1 J	10/27/08	CMF	EPA200.8
Tin, ug/l	0.13	100.0	2.0 J	2.4 J	1.3 J	1.0 J	1.2 J	10/27/08	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	0.5 J	0.7 J	2.0 J	0.4 J	0.3 J	10/27/08	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	4.2 J	0.5 J	33	2.4 J	5.6 J	10/27/08	CMF	EPA200.8
Sulfide, ug/l	100	1000	--- U	--- U	--- U	--- U	--- U	10/21/08	LFJ	SM4500-S2D

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

REVIEWED BY: _____

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/16/08
DATE EXTRACTED: 10/22/08
DATE ANALYZED: 10/22/08
DATE REPORTED: 11/12/08

PESTICIDES AND PCB'S
EPA METHOD 8081A

PARAMETERS, ug/l	MDL	SWSL	MW-6	MW-7	MW-10	MW-11	MW-12B
1. Aldrin	0.029	0.05	--- U	--- U	--- U	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U	--- U	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U	--- U	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U	--- U	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U	--- U	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U	--- U	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U	--- U	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U	--- U	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	0.53	--- U	--- U	--- U
10. Dieldrin	0.042	0.07	--- U	--- U	--- U	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U	--- U	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U	--- U	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U	--- U	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U	--- U	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U	--- U	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U	--- U	--- U	--- U
17. Hepthchlor Epoxide	0.042	0.07	--- U	--- U	--- U	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U	--- U	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U	--- U	--- U	--- U
20. Toxaphene	0.690	1.00	--- U	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

REVIEWED BY:

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/16/08
DATE EXTRACTED: 10/23/08
DATE ANALYZED: 10/24/08
DATE REPORTED: 11/12/08

LANDFILL APPENDIX II
EPA METHOD 8151A

PARAMETERS, ug/l	MDL	SWSL	MW-6	MW-7	MW-10	MW-11	MW-12B
1. 2,4-D	0.36	2.0	--- U	--- U	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
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CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/16/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/12/08

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	11/07/08 MW-6	11/07/08 MW-7	11/07/08 MW-10	11/06/08 MW-11	11/07/08 MW-12B
	Date Analyzed:						
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	10.0	--- U	--- U	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	--- U	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	10.0	--- U	--- U	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/16/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/12/08

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	11/07/08 MW-6	11/07/08 MW-7	11/07/08 MW-10	11/06/08 MW-11	11/07/08 MW-12B
Date Analyzed:							
48. 2-Nitrophenol	3.64	10.0	--- U	--- U	--- U	--- U	--- U
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: CHS
DATE COLLECTED: 10/16/08
DATE EXTRACTED: 10/21/08
DATE REPORTED: 11/12/08

REVIEWED BY: _____

SEMI-VOLATILE ORGANICS
EPA METHOD 8270C

PARAMETERS, ug/l	MDL	SWSL	11/07/08 MW-6	11/07/08 MW-7	11/07/08 MW-10	11/06/08 MW-11	11/07/08 MW-12B
	Date Analyzed:						
95. Phenacetin	4.41	20.0	--- U	--- U	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U	--- U	--- U	--- U	--- U
97. Phorate	3.86	10.0	--- U	--- U	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/16/08
DATE REPORTED: 11/12/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 10/28/08 MW-6	10/28/08 MW-7	10/28/08 MW-10	10/28/08 MW-11	10/28/08 MW-12B
1. Chloromethane	0.18	1.0	0.30 J	--- U	--- U	0.20 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	0.70 J	--- U	--- U	0.90 J
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	1.60 J	--- U	--- U	1.10 J
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	6.70 J	11.90 J	7.60 J	7.20 J	10.90 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	0.20 J	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	2.00 J	--- U	1.20 J	1.70 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.40 J	0.40 J	--- U	--- U	0.60 J
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	1.90	--- U	--- U	1.40
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	0.20 J
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	0.30 J	--- U	--- U	0.50 J
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	0.30 J	--- U	--- U	0.30 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	22.10	--- U	--- U	17.10
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	0.50 J	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	10.50	--- U	--- U	9.30
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	1.30 J	--- U	--- U	1.20 J
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/16/08
DATE REPORTED: 11/12/08

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	10/28/08 MW-6	10/28/08 MW-7	10/28/08 MW-10	10/28/08 MW-11	10/28/08 MW-12B
	Date Analyzed:						
48. Acrolein	5.46	50.0	--- U	--- U	--- U	--- U	--- U
49. Allyl Chloride	0.17	10.0	--- U	--- U	--- U	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	1.00 J	--- U	--- U	0.50 J
52. Dichlorodifluoromethane	0.16	5.0	--- U	--- U	--- U	0.30 J	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U	--- U	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	--- U	--- U	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U	--- U	--- U	--- U
64. Acetonitrile	5.96	50.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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MR. KEVIN SHIELDS
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SMITHFIELD, NC 27577

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DATE COLLECTED: 10/16/08
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REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 10/29/08 Trip Blank	10/29/08 Equipment Blank
1. Chloromethane	0.18	1.0	--- U	0.20 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	1.40 J	7.60 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	0.40 J
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	0.20 J	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	0.50 J
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
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SMITHFIELD, NC 27577

CLIENT ID: 6031

ANALYST: MAO
DATE COLLECTED: 10/16/08
DATE REPORTED: 11/12/08

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	10/29/08 Trip Blank	10/29/08 Equipment Blank
48. Acrolein	5.46	50.0	--- U	--- U
49. Allyl Chloride	0.17	10.0	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U
64. Acetonitrile	5.96	50.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

- 2 COOLERS -

CHAIN OF CUSTODY RECORD

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

Page 1 of 1

CLIENT: 6031 C 6031 6031 D **Week: 42**

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD NC 27577

(919) 938-4747

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Cyanide	Metals	Sulfide	EPA 8260B	8260 Dup. 1	8260 Dup. 2	EPA 8270C	8270C Dup. 1	EPA 8081A	8081A Duplicate	8260B App. II	8260 App. II 1	8151A Landfill
						>12	<2	>9	<2	<2	<2						<2	
						P	P	P	G	G	G	G	G	G	G	G	G	G
						D	A	F D	E	E	E	A	A	A	A	E	E	A
SW-1A	10/13/08	09:54	N/A	18	4		■		■	■	■							
SW-2	↓	09:04	↓	18	3		■		■	■								
Piezometer #3	↓	15:57	↓	21	10	■	■	■				■	■	■	■	■	■	■
Trip Blank	↓	N/A	↓	N/A	1											■	//	
Equipment Blank	↓	16:32	↓	N/A	1											■	//	
MW-8A	↓	14:16	↓	19	3		X		X	X								
MW-17	↓	15:01	↓	20	3		X		X	X								
MW-14D	↓	11:23	↓	16	4		X		X	X	X							
MW-15D	↓	12:20	↓	17	3		X		X	X								
MW-16D	↓	13:12	↓	18	3		X		X	X								

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 0.9 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	10/14/08 09:30	[signature]	10/14 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: Sulfide bottle had no preservation, client wants to run sample without per Kevin Shields.

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 168117

— 3 COOLERS —

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6031

JOHNSTON COUNTY LANDFILL (OLD)
KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577
(919) 938-4747

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	CYANIDE	METALS	SULFIDE	EPA 8260B	8260 Dup. 1	EPA 8270C	8270C Dup. 1	EPA 8081A	8081A Dupliate	8260B App II	8260 App. II 1	8260 App. II 2	8151A LANDFILL
CHLORINE NEUTRALIZED AT COLLECTION																		
pH CHECK (LAB)						>12	12	>9							12	12	12	
CONTAINER TYPE, P/G						P	P	P	G	G	G	G	G	G	G	G	G	G
CHEMICAL PRESERVATION						D	A	F D	E	E	A	A	A	A	E	E	E	A
MW-6	10/16/08	10:36	N/A	20	10	X	X	X			X	X	X	X	X	X	X	X
MW-7		15:45		21	10	X	X	X			X	X	X	X	X	X		X
MW-10		12:40		19	10	X	X	X			X	X	X	X	X	X		X
MW-11		14:01		18	10	X	X	X			X	X	X	X	X	X		X
MW-12B		09:12		18	10	X	X	X			X	X	X	X	X	X		X
TRIP BLANK		N/A		N/A	1										X			
EQUIPMENT BLANK		16:44		N/A	1										X			

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 1.4 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
K. J. Shields	10/17/08 09:30	[signature]	10/17/08 9:30PM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: The preservatives for sulfide tests were added when received in lab.

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 171708

-4 COOLERS -

CHAIN OF CUSTODY RECORD

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 6031 A & 6031 E **Week: 42**

JOHNSTON COUNTY LANDFILL (OLD)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD NC 27577

(919) 938-4747

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Cyanide	Metals	Sulfide	EPA 8270C	8270C Dup. 1	EPA 8081A	8081A Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill	EPA 8260B
CHLORINE NEUTRALIZED AT COLLECTION																	
pH CHECK (LAB)						>12	>12	<9					<2	<2	<2		<2
CONTAINER TYPE, P/G						P	P	P	G	G	G	G	G	G	G	G	G
CHEMICAL PRESERVATION						D	A	F D	A	A	A	A	E	E	E	A	E
MW-4D	10/15/08	09:10	N/A	19	11												
MW-5A		09:51		17	10												
MW-7D		11:08		19	10												
MW-8D		12:40		18	10												
MW-9C		08:30		17	10												
MW-9D		13:30		19	10												
MW-3		16:45		20	11	X	X	X	X	X	X	X	X	X	X	X	
MW-4B		14:37		20	10	X	X	X	X	X	X	X	X	X		X	
TRIP BLANK		N/A		N/A													X

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
K. J. Shields	10/16/08 09:30	B Jefferson	10/16 4:30
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: SWF Sent to Client W/O Preservation, Preservation added at lab. Spoke with Kevin Shields.

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 168118

FORM #5

5 COOLERS

CHAIN OF CUSTODY RECORD

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 6054 6033 6033A **Week: 42**

JOHNSTON CO., ~~(PHASE 5A)~~
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD NC 27577

(919) 938-4747

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	BOD	COD	TSR	Ammonia Nitro.	Nitrate	T. Phosphorus	Sulfate	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3				
							<2		<2		<2		<2	<2	<2	<2	<2				CHLORINE NEUTRALIZED AT COLLECTION / pH CHECK (LAB)
						P	P	P	P	P	P	P	P	G	G	G	G				CONTAINER TYPE, P/G
						A	C	A	C	A	C	A	A	E	E	E	E				CHEMICAL PRESERVATION
Leak Detect (4A) 6054	10/21/08	16:42	N/A	22	11																
Leachate Jun Box (4A) 6054		15:38	N/A	23	10																
(6033A) LEACHATE (LAGOON)		12:35	N/A	22	10	X	X	X	X	X	X	X	X	X	X						
(PHASE 5) (6033) LEACHATE JUNC. BOX		14:19	N/A	22	10	X	X	X	X	X	X	X	X	X	X						
(6033) LAGOON #1 (MW)		09:24	N/A	19	3								X	X	X						
(6033) LAGOON #2 (MW)		10:00	N/A	18	3								X	X	X						
(6033) LAGOON #3 (MW)		10:41	N/A	18	3								X	X	X						
(6033) LAGOON #4 (MW)		11:29	N/A	17	5								X	X	X	X	X				
EQUIPMENT BLANK		17:49	N/A	N/A	1									X							
TRIP BLANK		N/A	N/A	N/A	1									X							

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) KEVIN J. SHIELDS

SAMPLES RECEIVED IN LAB AT 6.9 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	10/22/08	[signature]	10/22 3:48
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 168102

Environment 1, Incorporated

REC'D DEC 02 2008

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6054

JOHNSTON CO., (PHASE 4A)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD ,NC 27577

DATE COLLECTED: 10/21/08
DATE REPORTED : 11/17/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leak Detect	Leachate Jun Box	Analysis Date	Analyst	Method Code
BOD, mg/l	2.0	2.0	--- U	32	10/23/08	TRB	SM5210B
COD, mg/l	10.0	10.0	133	743	10/28/08	TRB	HACH8000
Total Suspended Residue, mg/l	1.0	1.0	345	43	10/23/08	MRJ	SM2540D
Ammonia Nitrogen, mg/l	0.04	0.04	70.80	602	10/24/08	TWA	EPA350.1
Nitrate Nitrogen, mg/l	0.03	10.0	--- U	--- U	10/24/08	ANO	EPA353.2
Total Phosphorus, mg/l	0.04	0.04	0.19	1.56	10/27/08	TWA	EPA365.4
Sulfate, mg/l	5.0	250.0	32.8 J	5.2 J	11/03/08	TRB	SM4500-SO4E
Antimony, ug/l	0.08	6.0	0.6 J	1.7 J	10/30/08	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	5.1 J	11	10/30/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	760	328	10/30/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	--- U	10/30/08	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.6 J	10/30/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	2.0 J	15	10/30/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	5.1 J	6.5 J	10/30/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	1.8 J	17	10/30/08	CMF	EPA200.8
Lead, ug/l	0.04	10.0	0.1 J	0.8 J	10/30/08	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	15.5 J	75	10/30/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0	7.6 J		10/30/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0		--- U	11/06/08	CMF	SM3113B
Silver, ug/l	0.04	10.0	0.1 J	0.2 J	10/30/08	CMF	EPA200.8
Thallium, ug/l	0.63	5.0	--- U	--- U	10/30/08	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	3.8 J	12.0 J	10/30/08	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	6.4 J	53	10/30/08	CMF	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JOHNSTON CO., (PHASE 4A)
MR. KEVIN SHIELDS
P.O. BOX 2263
SMITHFIELD, NC 27577

CLIENT ID: 6054

ANALYST: MAO
DATE COLLECTED: 10/21/08
DATE ANALYZED: 11/03/08
DATE REPORTED: 11/17/08

REVIEWED BY:

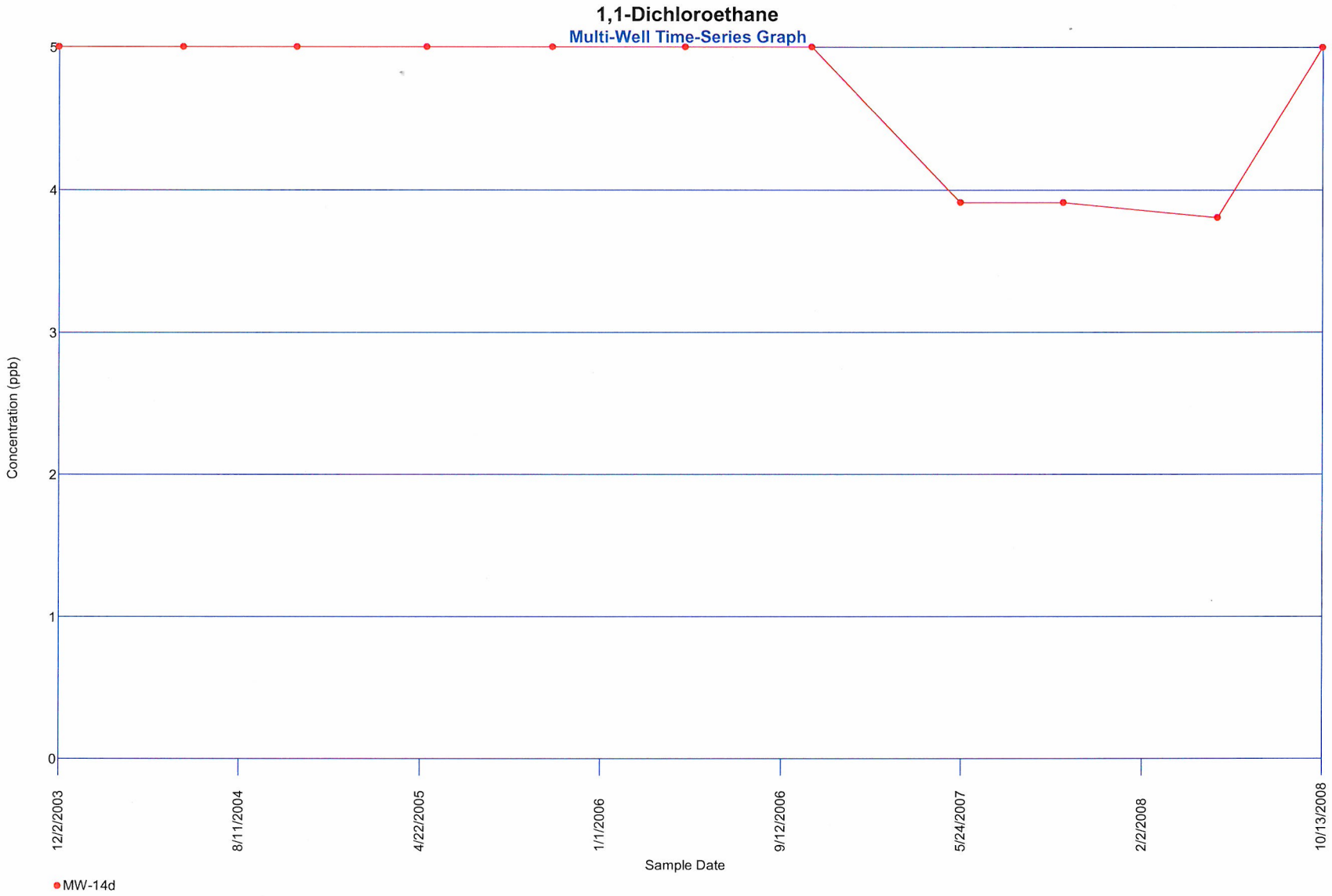
VOLATILE ORGANICS
EPA METHOD 8260B

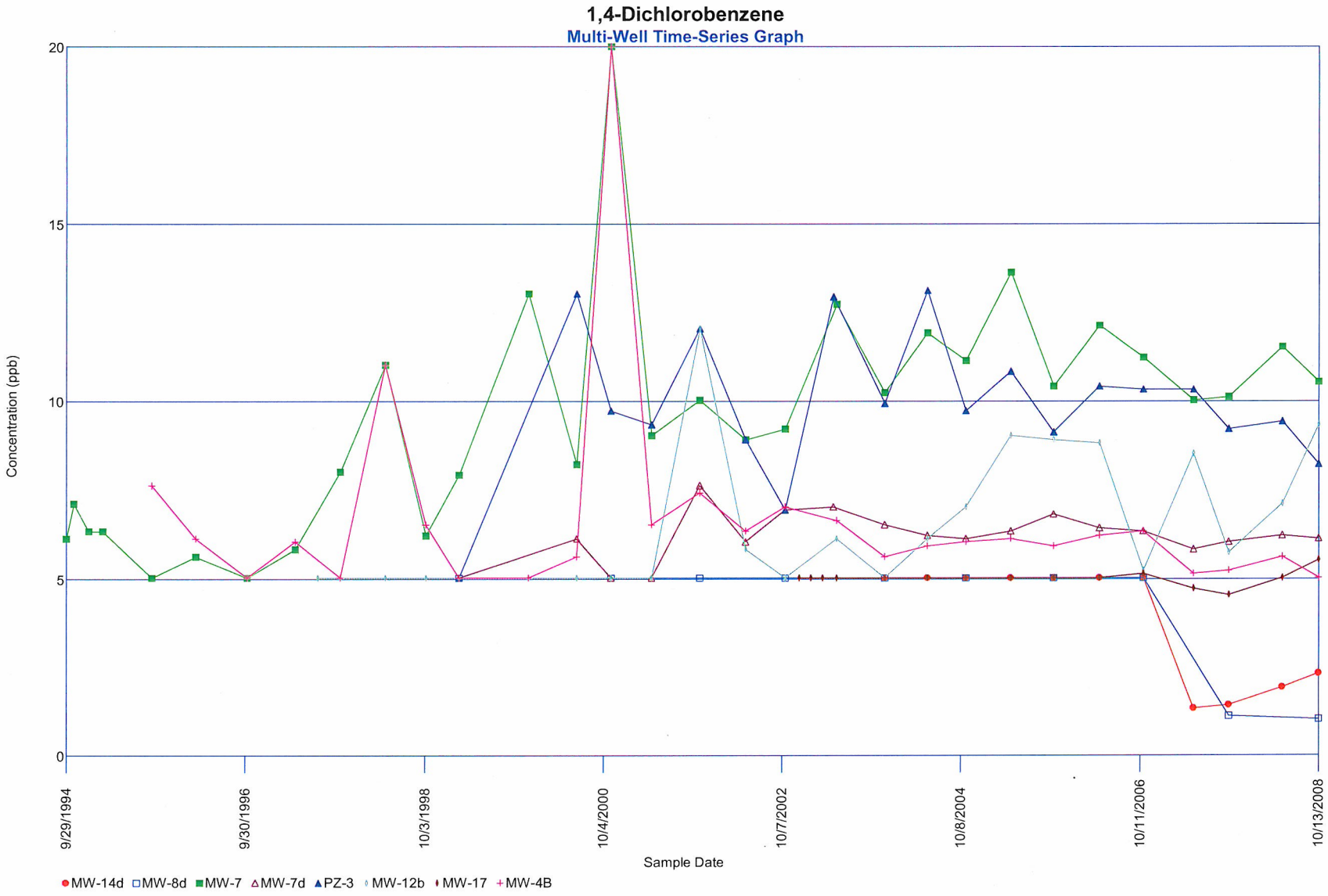
PARAMETERS, ug/l	MDL	SWSL	Leak Detect	Leachate Jun Box
1. Chloromethane	0.18	1.0	0.20 J	0.40 J
2. Vinyl Chloride	0.34	1.0	2.10	0.60 J
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	1.10 J	1.20 J
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	12.70 J	35.00 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	0.20 J	0.20 J
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	0.30 J
12. 1,1-Dichloroethane	0.16	5.0	0.70 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.40 J	--- U
15. 2-Butanone	0.85	100.0	2.20 J	8.20 J
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	6.80	15.00
21. 1,2-Dichloroethane	0.12	1.0	1.10	2.50
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.40 J	0.50 J
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	1.70 J
27. Toluene	0.13	1.0	0.60 J	1.90
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	0.30 J
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	2.00 J	2.60 J
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	2.40	1.90
37. Xylenes	0.48	5.0	11.30	36.30
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	2.20	8.00
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Appendix B

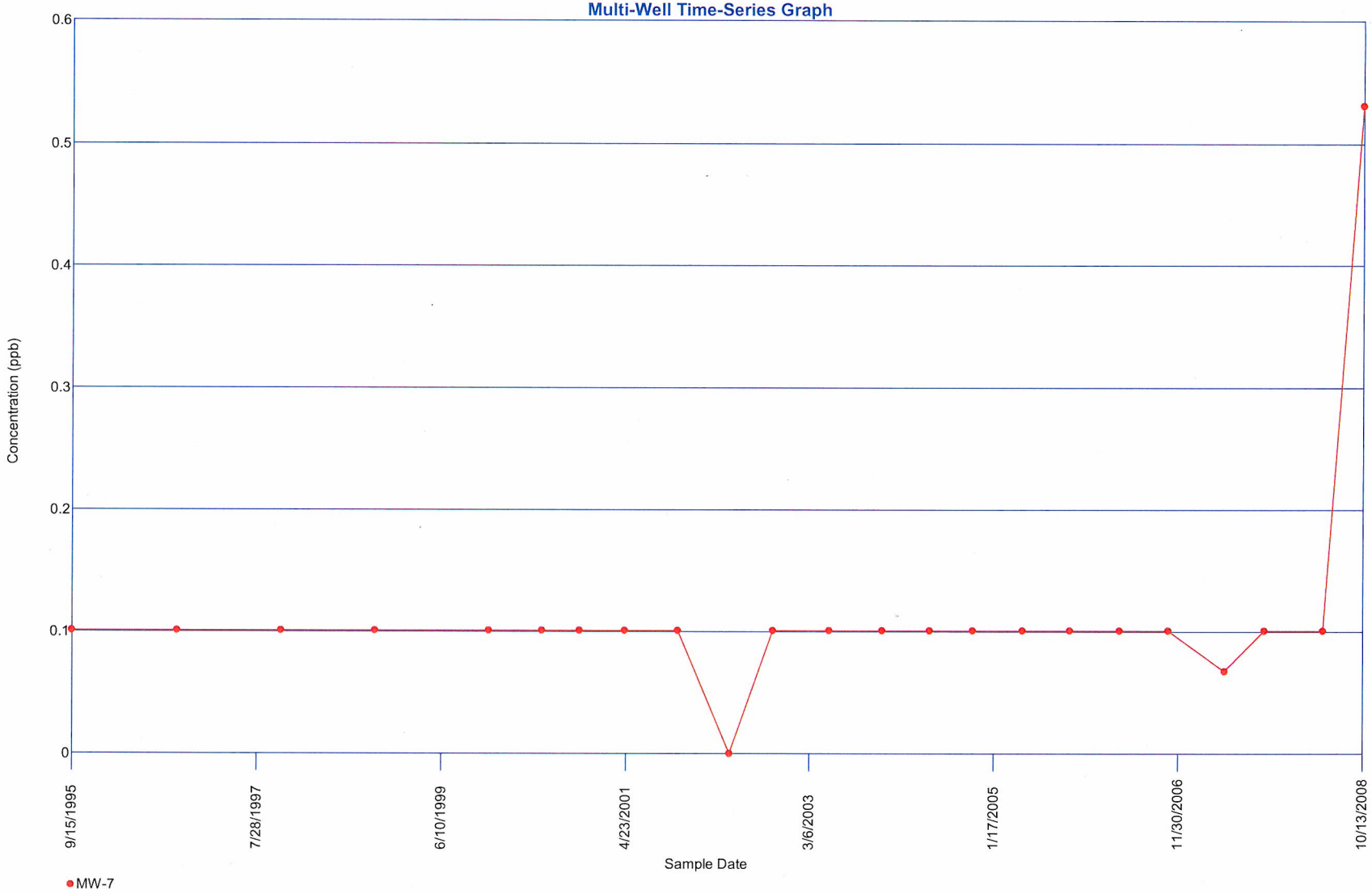
Time vs. Concentration Graphs


1,1-Dichloroethane
Multi-Well Time-Series Graph
Concentration (ppb)
5
4
3
2
1
0
12/2/2003
8/11/2004
4/22/2005
1/1/2006
9/12/2006
5/24/2007
2/2/2008
10/13/2008
Sample Date
MW-14d


1,4-Dichlorobenzene
Multi-Well Time-Series Graph
Concentration (ppb)
20
15
10
5
0
9/29/1994
9/30/1996
10/3/1998
10/4/2000
10/7/2002
10/8/2004
10/11/2006
10/13/2008
Sample Date
MW-14d
MW-8d
MW-7
MW-7d
PZ-3
MW-12b
MW-17
MW-4B

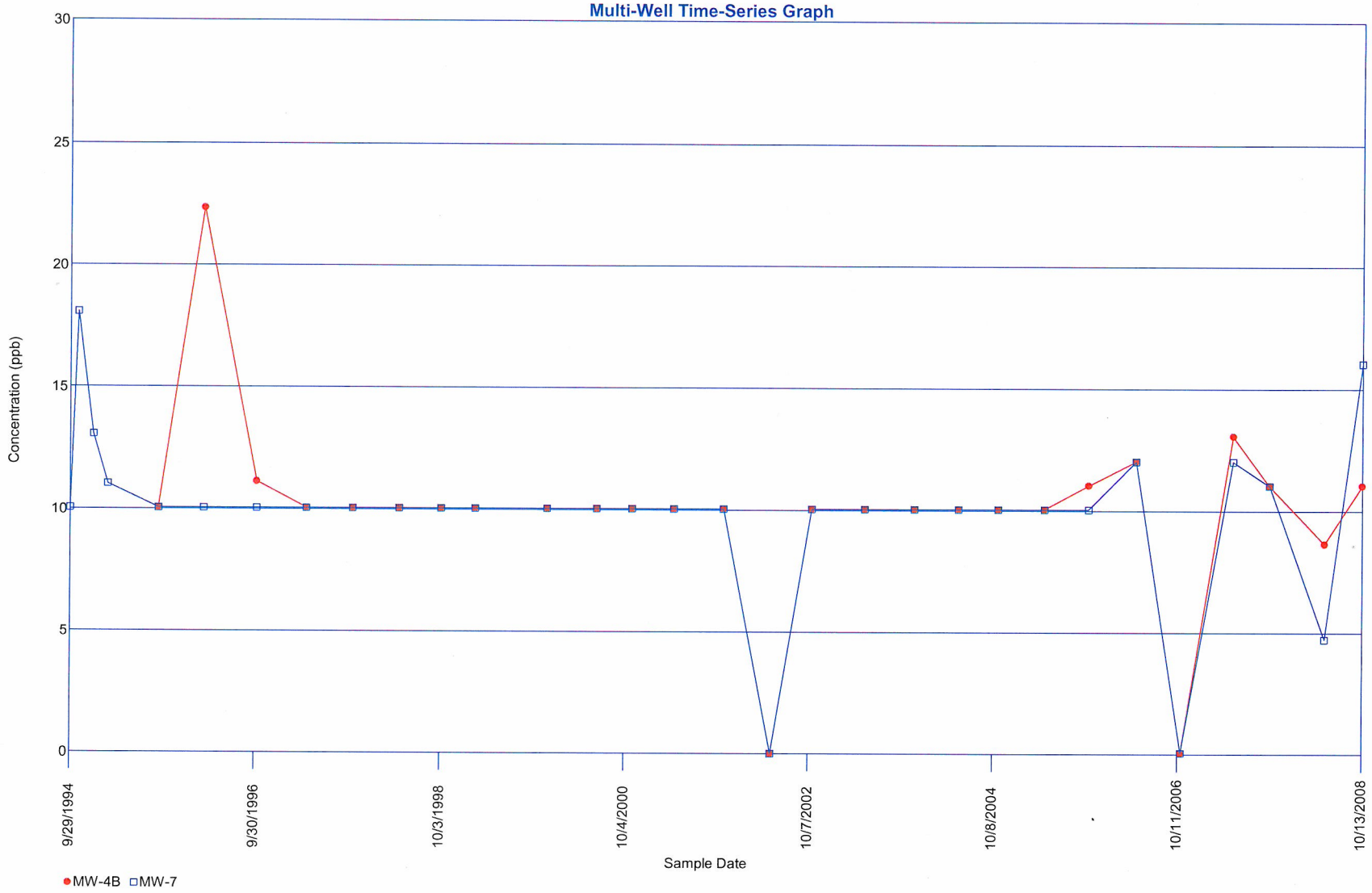
4,4-DDT

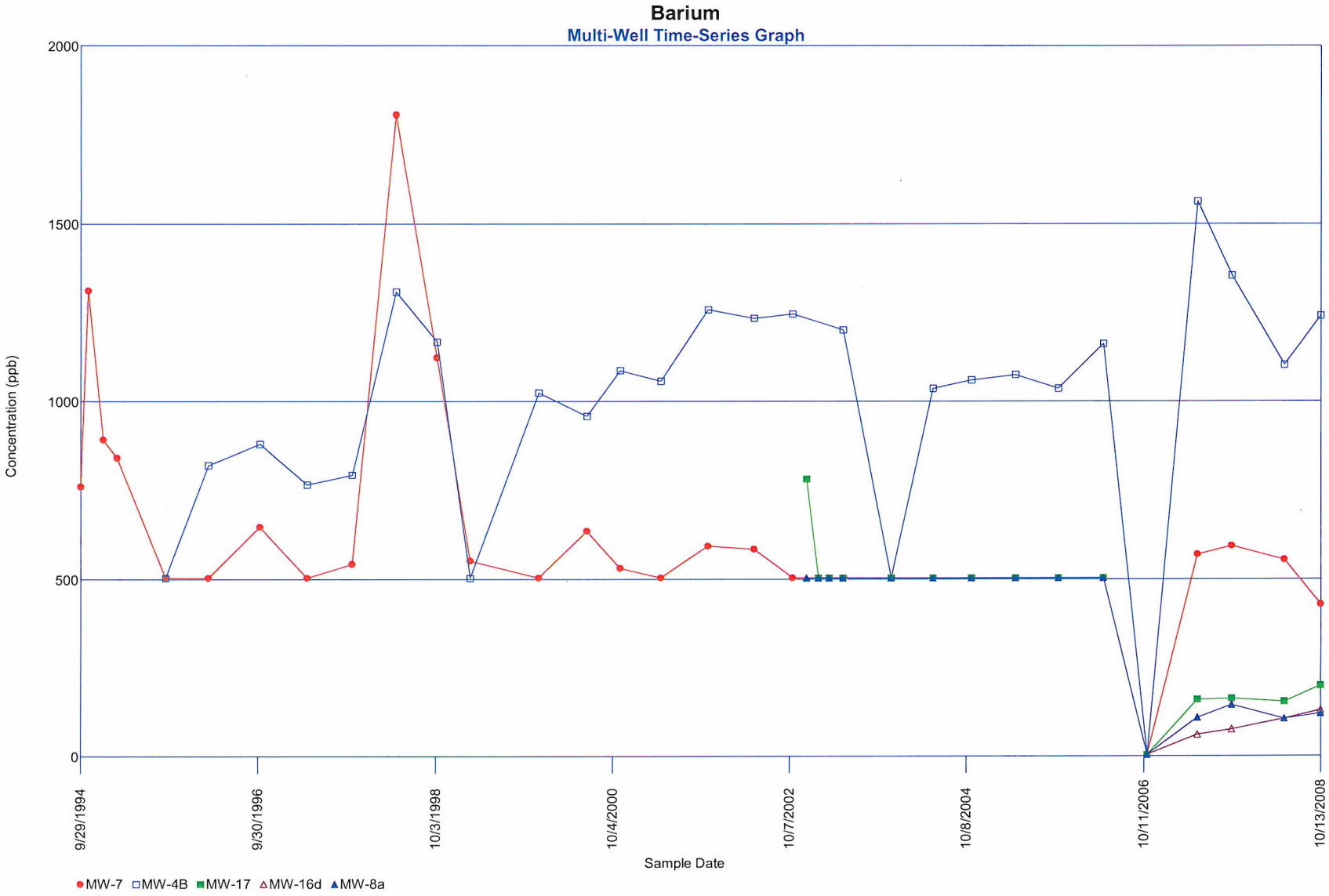
Multi-Well Time-Series Graph

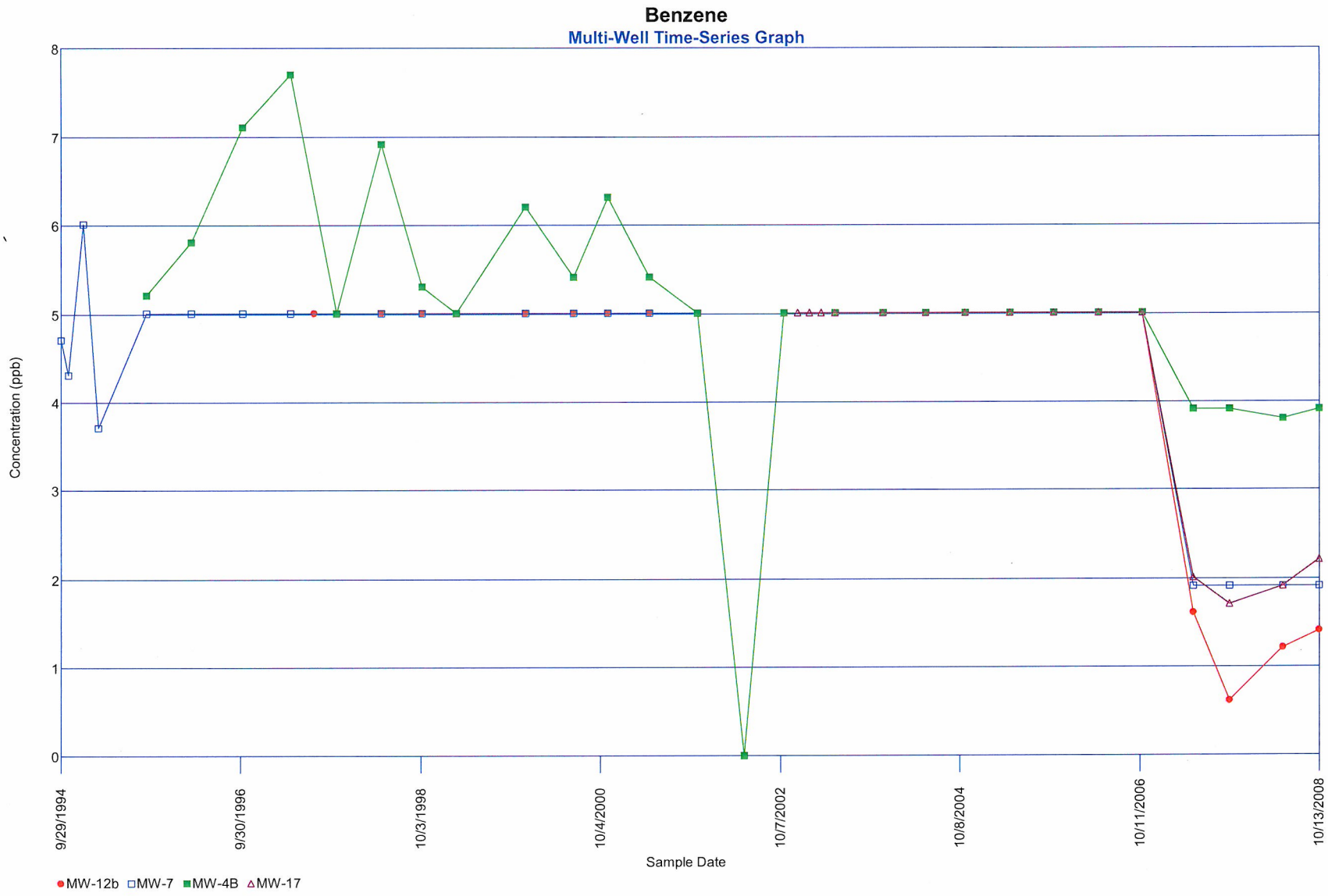


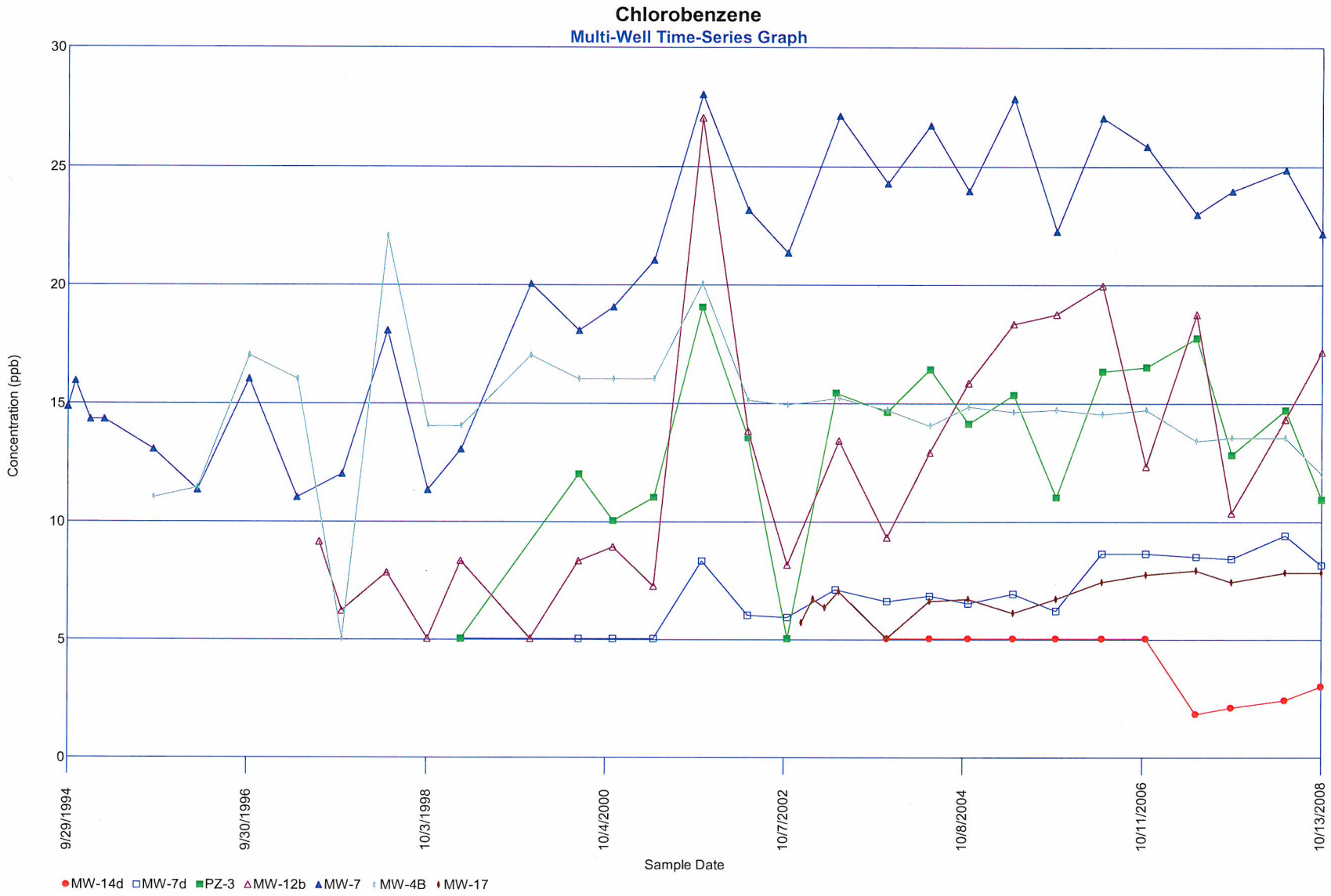
Arsenic

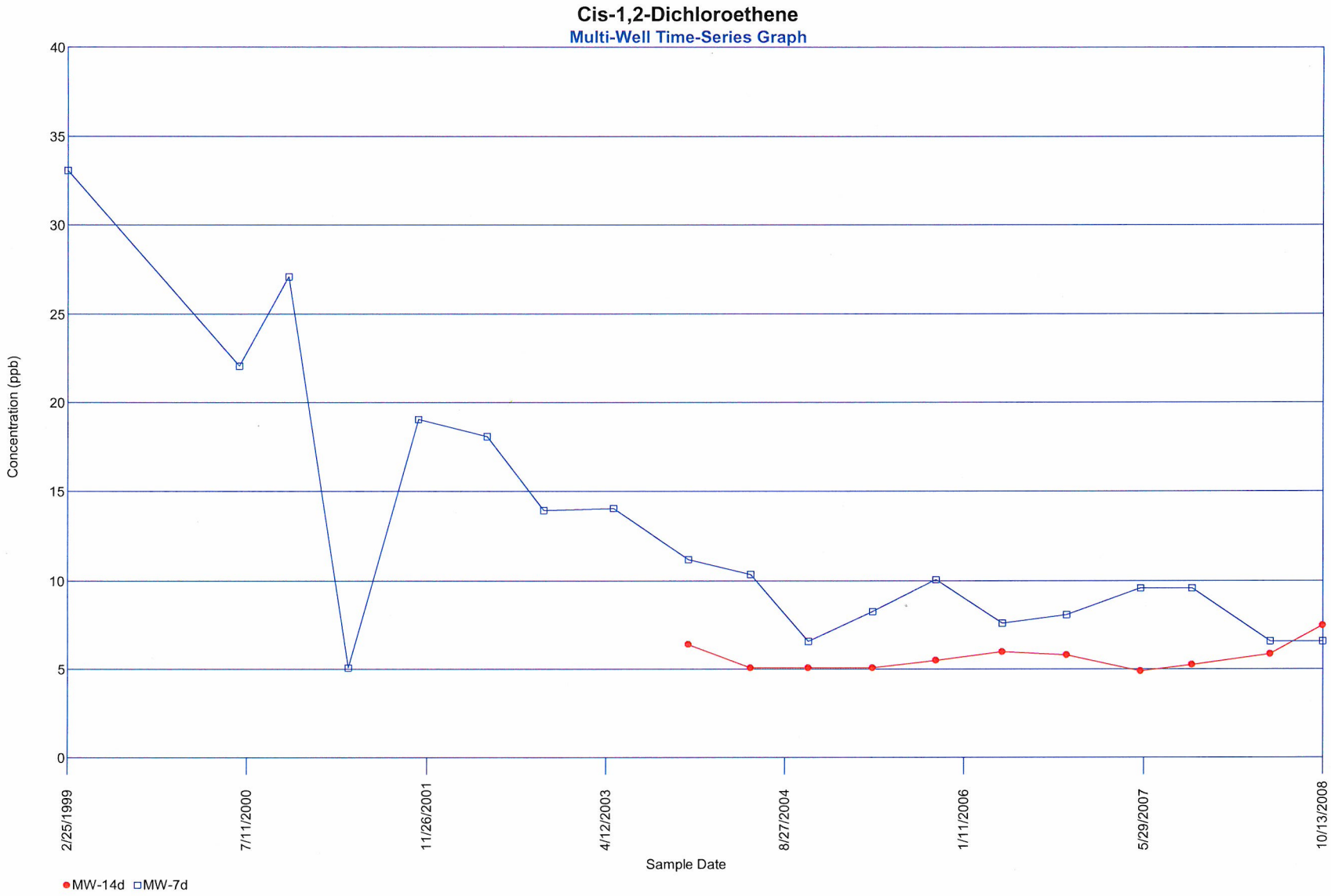
Multi-Well Time-Series Graph




Barium
Multi-Well Time-Series Graph
2000
1500
1000
500
0
Concentration (ppb)
9/29/1994
9/30/1996
10/3/1998
10/4/2000
10/7/2002
10/8/2004
10/11/2006
10/13/2008
Sample Date
MW-7
MW-4B
MW-17
MW-16d
MW-8a

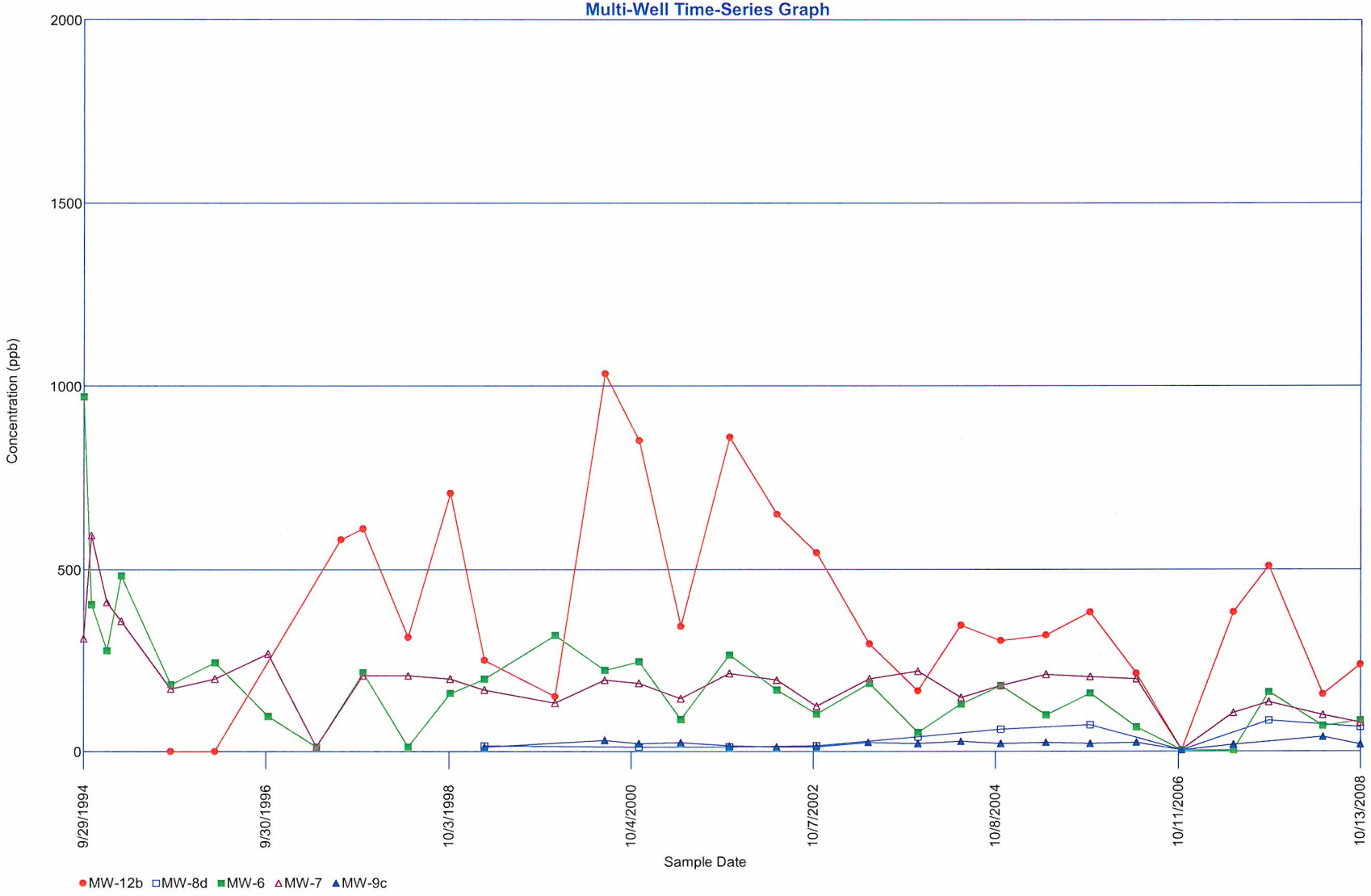

Benzene
Multi-Well Time-Series Graph
Concentration (ppb)
0
1
2
3
4
5
6
7
8
9/29/1994
9/30/1996
10/3/1998
10/4/2000
10/7/2002
10/8/2004
10/11/2006
10/13/2008
Sample Date
MW-12b
MW-7
MW-4B
MW-17

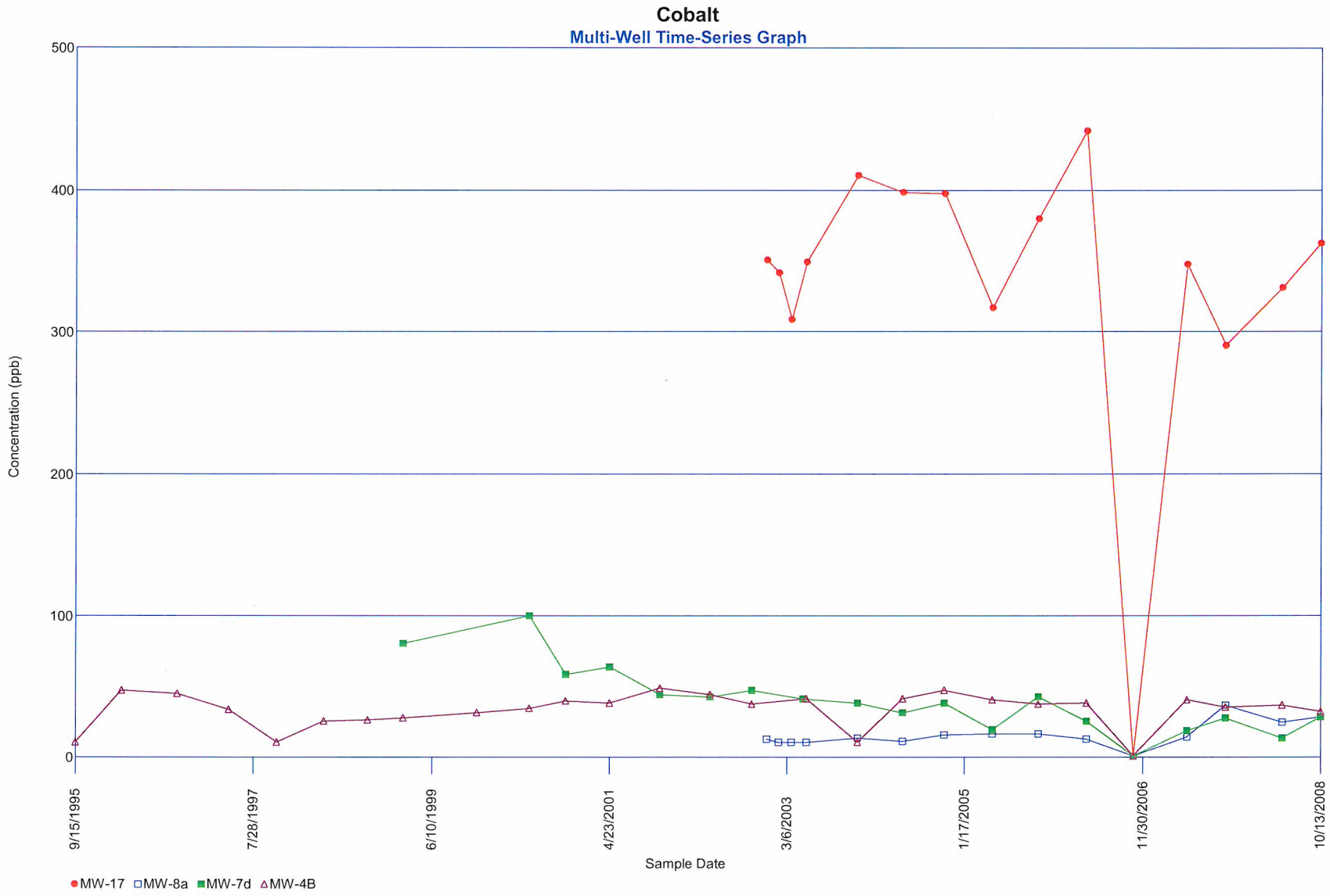

Chlorobenzene
Multi-Well Time-Series Graph
Concentration (ppb)
30
25
20
15
10
5
0
9/29/1994
9/30/1996
10/3/1998
10/4/2000
10/7/2002
10/8/2004
10/11/2006
10/13/2008
Sample Date
MW-14d
MW-7d
PZ-3
MW-12b
MW-7
MW-4B
MW-17

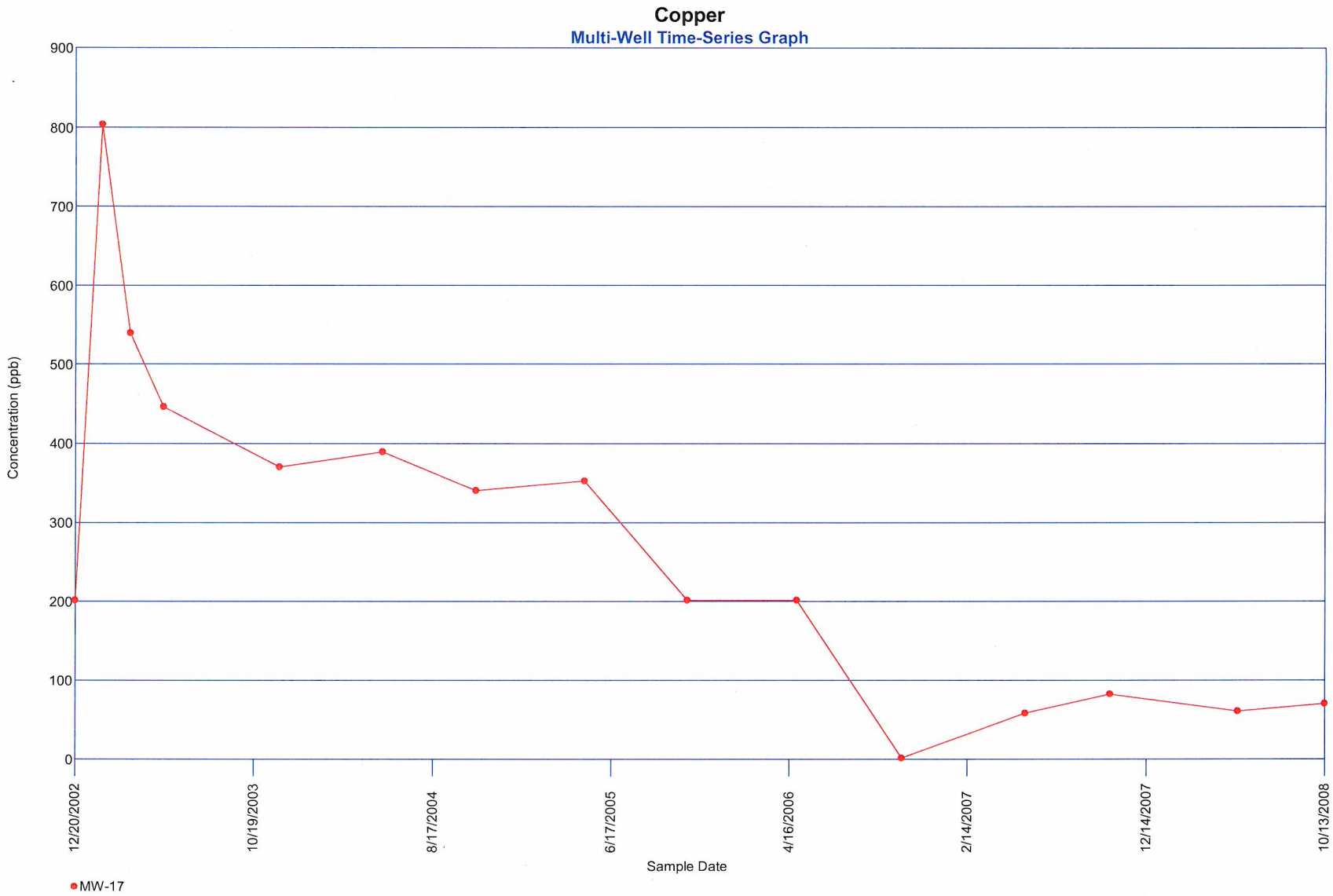

Cis-1,2-Dichloroethene
Multi-Well Time-Series Graph
Concentration (ppb)
40
35
30
25
20
15
10
5
0
2/25/1999
7/11/2000
11/26/2001
4/12/2003
8/27/2004
1/11/2006
5/29/2007
10/13/2008
Sample Date
MW-14d
MW-7d

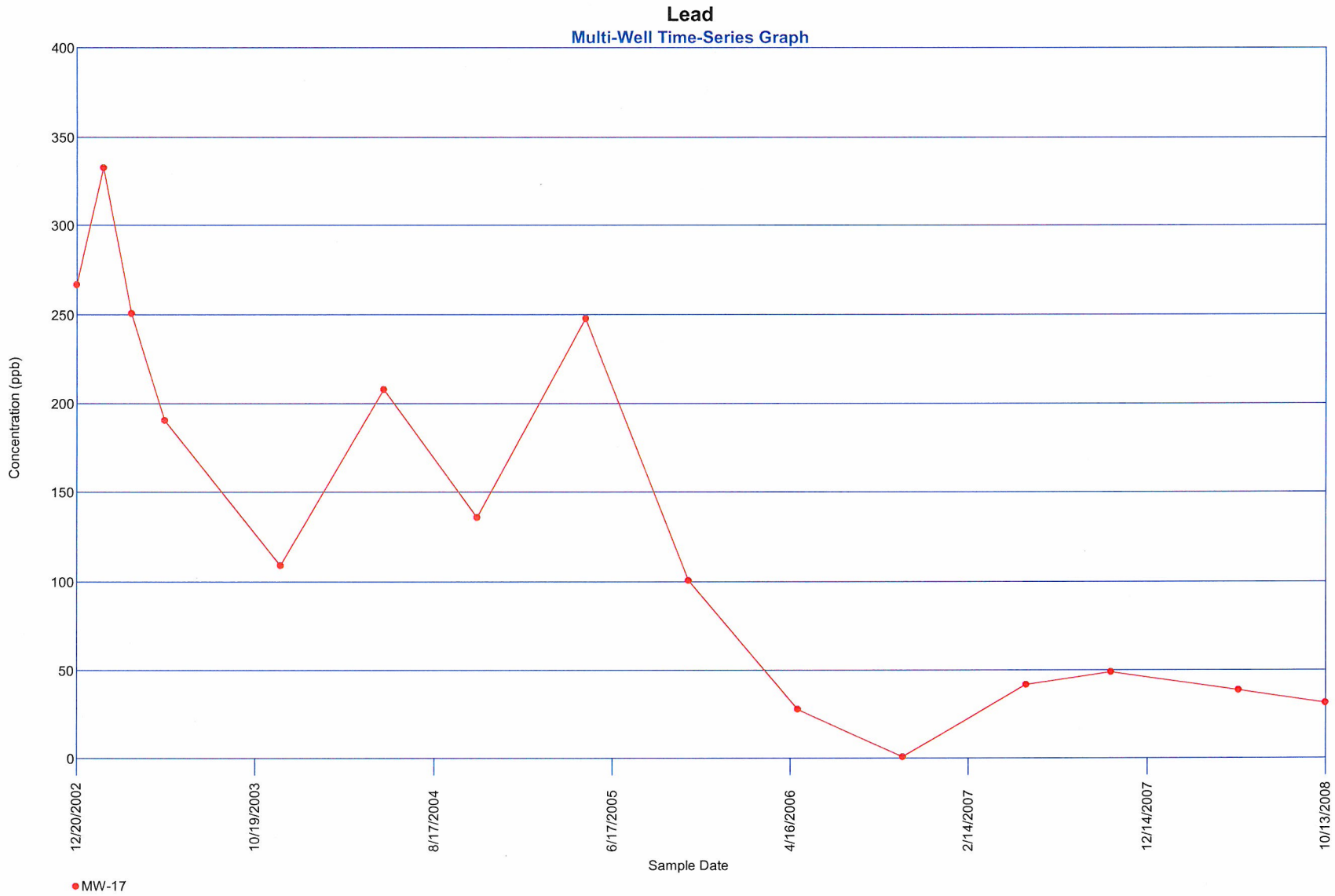
Cobalt

Multi-Well Time-Series Graph



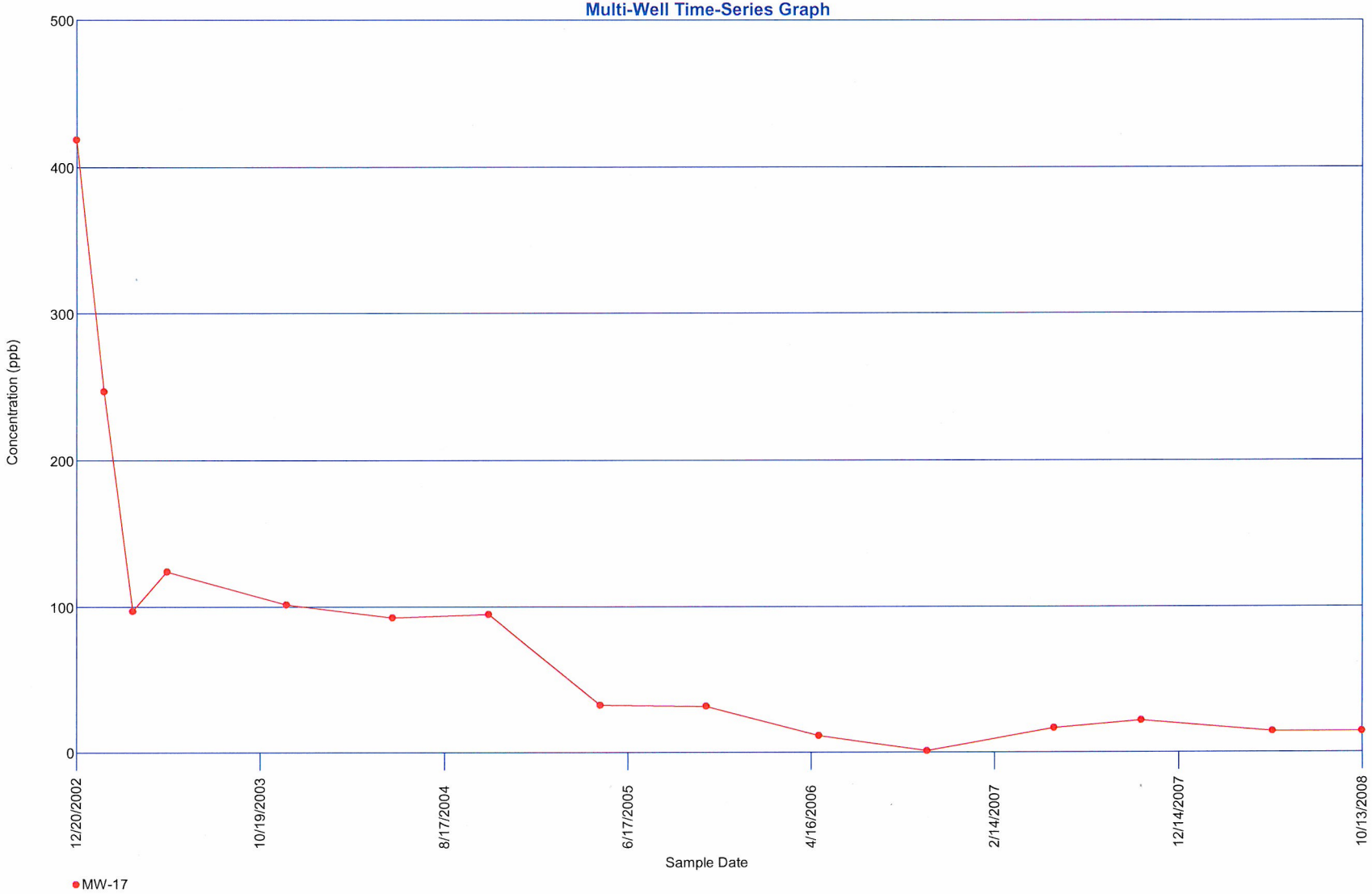

Cobalt
Multi-Well Time-Series Graph
500
400
300
200
100
0
Concentration (ppb)
9/15/1995
7/28/1997
6/10/1999
4/23/2001
3/6/2003
1/17/2005
11/30/2006
10/13/2008
Sample Date
MW-17
MW-8a
MW-7d
MW-4B

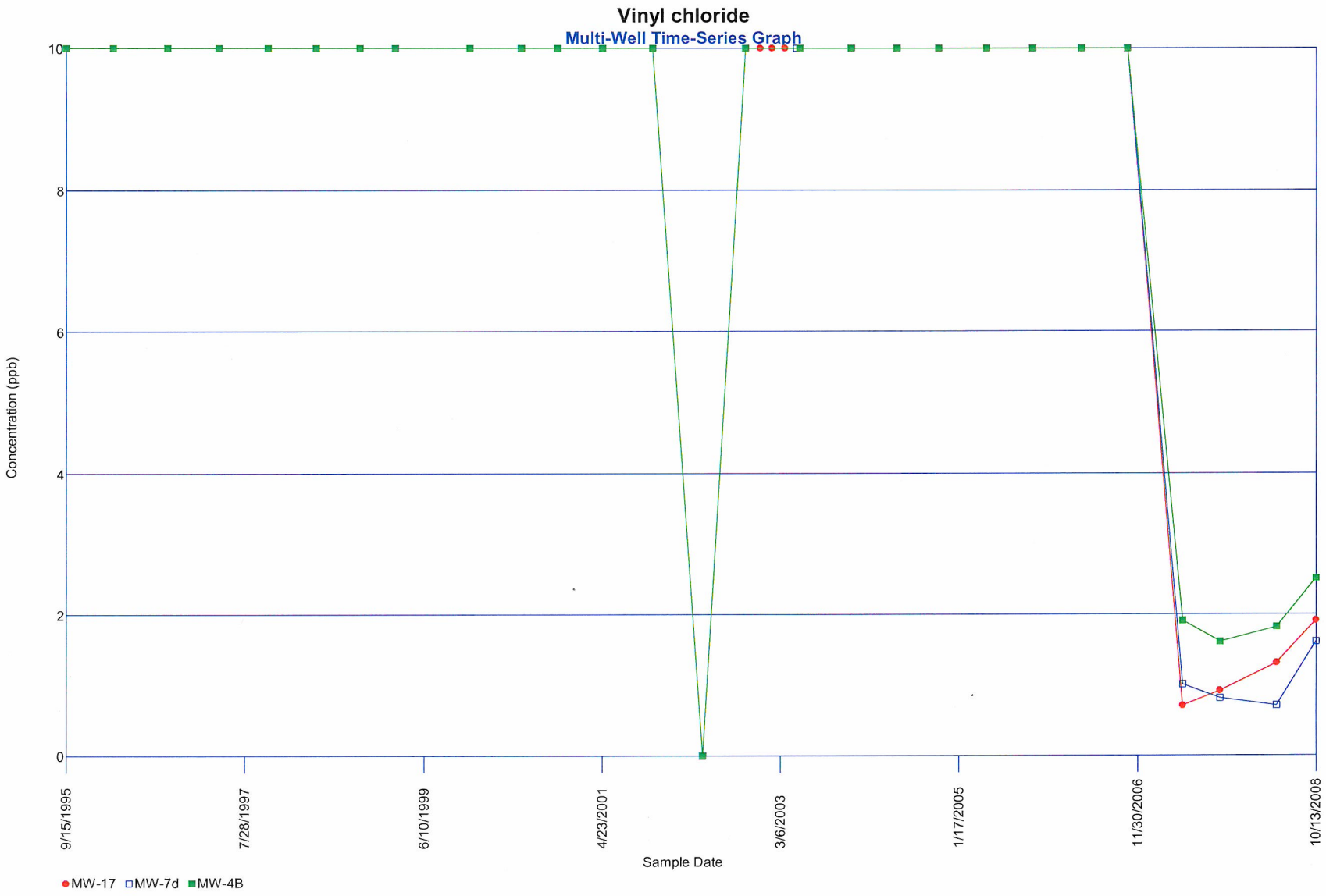

Copper
Multi-Well Time-Series Graph
Concentration (ppb)
900
800
700
600
500
400
300
200
100
0
12/20/2002
10/19/2003
8/17/2004
6/17/2005
4/16/2006
2/14/2007
12/14/2007
10/13/2008
Sample Date
MW-17

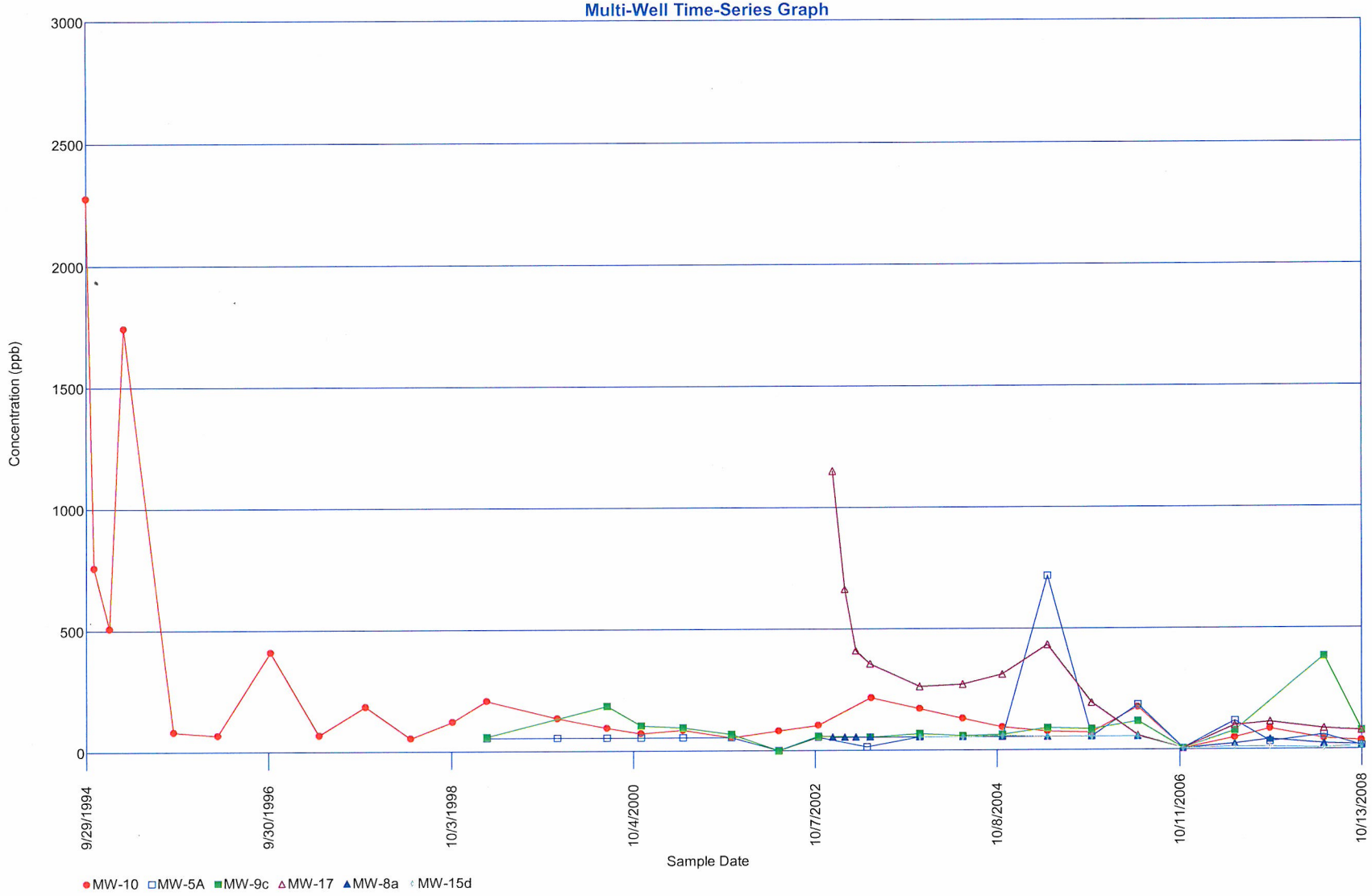

Lead
Multi-Well Time-Series Graph
Concentration (ppb)
400
350
300
250
200
150
100
50
0
12/20/2002
10/19/2003
8/17/2004
6/17/2005
4/16/2006
2/14/2007
12/14/2007
10/13/2008
Sample Date
MW-17

Total Chromium

Multi-Well Time-Series Graph




Vinyl chloride
Multi-Well Time-Series Graph
Concentration (ppb)
10
8
6
4
2
0
9/15/1995
7/28/1997
6/10/1999
4/23/2001
3/6/2003
1/17/2005
11/30/2006
10/13/2008
Sample Date
MW-17
MW-7d
MW-4B

Zinc

Multi-Well Time-Series Graph