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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Smith Gardner, Inc.

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

Name: Madeline German Phone: (919) 828-0577 x222

E-mail: madeline@smithgardnerinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Harnett County - Anderson Creek C&D Landfill	1164 Poplar Dr., Spring Lake, NC 28390	43-03	.0500	April 9, 2015

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.

Madeline German, PG — Geologist — (919) 828-0577 x222

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

Signature — 6/16/15 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2275 GEOLOGIST MADELINE 6/16/15

14 N Boylan Ave, Raleigh, NC 27603

Facility Representative Address

C0828

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

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April 2015 Groundwater Monitoring Report

Harnett County Anderson Creek Landfill
NC Solid Waste Permit No. 43-03

Prepared for:

Halifax County Solid Waste Department
P.O. Box 940
Lillington, North Carolina 27546

Harnett COUNTY NORTH CAROLINA

May 2015

Prepared by:

NC LIC. NO. C-0828 (ENGINEERING)

SMITH+GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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April 2015 Groundwater Monitoring Report

Harnett County Anderson Creek Landfill
NC Solid Waste Permit 43-03

Prepared For:

Harnett County Solid Waste Department
Lillington, North Carolina

S+G Project No. Harnett-AC 13-2

NORTH CAROLINA LICENSED SEAL 2275 GEOLOGIST MADELINE GERMAN

Madeline German, P.G.
Project Geologist

Joan A, Smyth, P.G.
Senior Hydrogeologist

May 2015

NC LIC. NO. C-0828 (ENGINEERING)

SMITH+GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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Harnett County Anderson Creek Landfill
NC Solid Waste Permit No. 43-03

April 2015 Groundwater Monitoring Report

Table of Contents

Page

1.0 INTRODUCTION 1
2.0 SITE HYDROGEOLOGY 1
3.0 SAMPLING LOCATIONS 1
4.0 SAMPLING PROCEDURES 2
5.0 FIELD & LABORATORY RESULTS 2
5.1 Field Results 2
5.2 Laboratory Analysis 2
5.3 Laboratory Results 2
5.3.1 Inorganic Constituents 3
5.3.2 Organic Constituents 3
5.3.3 Surface Water Results 3
6.0 GROUNDWATER CHARACTERIZATION 3
7.0 CONCLUSIONS 4

FIGURE

Figure 1 Groundwater Potentiometric Map

TABLES

Table 1 Groundwater Elevation
Table 2 Field Parameters
Table 3 Detected Inorganic Constituents
Table 4 Detected Organic Constituents
Table 5 Velocity and Conductivity Calculations

APPENDICES

Appendix A Well Logs
Appendix B Laboratory Analytical Report
Appendix C Time vs. Concentration Graphs

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1.0 INTRODUCTION

The Harnett County Anderson Creek Landfill, located at 1086 Poplar Drive, Spring Lake, North Carolina, operates a C&D landfill under Solid Waste Permit #43-03 and a MSW transfer station under Solid Waste Permit #43-09T. A permit condition of 15A NCAC 13B.1600 (et. seq.) is submittal of semi-annual groundwater monitoring reports to NCDENR. The Harnett County Anderson Creek Facility has two closed unlined MSW landfill units located in the southeast portion of the site; closure was completed in 1994. Two closed C&D landfill units were closed in accordance with the current closure regulations. One located between the closed, unlined MSW landfill and the second to the west of the larger closed MSW unit.

This report presents the results from the semi-annual monitoring event conducted April 9, 2015 and includes a field procedure summary, laboratory analyses, summary tables and graphs and groundwater characterization.

2.0 SITE HYDROGEOLOGY

According to the 1985 North Carolina Geological Map the landfill is situated in the Coastal Plain Physiographic Province. The Dunn–Erwin area in Harnett County is underlain by the cretaceous age Middendorf formation that is primarily light gray sand, sandstone and mudstone which acts as a confining unit. The Middendorf formation was deposited in a deltaic system and varies from 15m to over 100m thick[1].

Groundwater depths generally range from just under 5 ft. to more than 30 ft. below ground surface (bgs) across the facility. Groundwater generally flows southwest towards the local wetland feature. There are minor seasonal variations in the flow pattern, but overall flow direction is consistent.

3.0 SAMPLING LOCATIONS

The sampling event performed by experienced Smith Gardner, Inc. (S+G) personnel utilized the groundwater monitoring network that includes four monitoring wells. MW-1, MW-2, MW-4 and MW-5 which monitor the closed MSW landfill, four monitoring wells (CDMW-2, CDMW-3, CDMW-5 and CDMW-6) which monitor the C&D landfill, and two surface water locations (SW-1 and SW-2). MW-1 is used as the background well for the site due to its remote, up-gradient location. A trip blank was also analyzed for quality control.

Figure 1 illustrates sampling locations. Available well logs for the groundwater monitoring wells are included in **Appendix A**.

1 Sohl, Norman F. and Owens, James P. "Cretaceous Stratigraphy of the Carolina Coastal Plain". The Geology of the Carolinas. University of Tennessee Press, 1991. p191-220.

4.0 SAMPLING PROCEDURES

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (DENR, DWM) and the approved site Water Quality Monitoring Plan[2]. Each well was gauged to determine groundwater depth and then purged three well volumes or until dry. Depth to groundwater is presented in **Table 1**.

Samples were collected by S+G personnel in laboratory prepared containers for the specified analytical procedures. Groundwater samples and quality control blanks, were properly preserved, placed on ice and transported to the laboratory facility within the specified hold times for each analysis.

5.0 FIELD & LABORATORY RESULTS

5.1 Field Results

Temperature, pH and specific conductance were measured in the field at the time of sampling via direct read instruments. Turbidity exceeded the meter calibration for the sample from CDMW-2. Monitoring wells CDMW-3, CDMW-5 and CDMW-6, had recorded measurements over 200 Nephelometric Turbidity Unit (NTU). Increased turbidity has been known to bias-high inorganic sample results. The field parameter results are summarized in **Table 2** and are generally consistent with historic sample results.

5.2 Laboratory Analysis

Ground and surface water samples were transported to Prism Laboratories, Inc., a North Carolina certified laboratory (NC Certification #402) for RCRA 8 metals and Appendix I VOC analysis. C&D samples were also analyzed for Tetrahydrofuran. Samples were transported under proper chain of custody and analyzed to the laboratory Reporting Limit (RL). The laboratory report is presented as **Appendix B**.

5.3 Laboratory Results

Analytical results were compared to Rule 15A NCAC 2L.0200 (2L Standard), SWS established Groundwater Protection (GWP) Limits and Federal Maximum Contaminant Limits (MCL). Surface water results were compared with the NCAC 2B Standard for Class C waters (2B Standards).

Most constituents were either below the reporting limit (RL) or were "J-values". J-values are identified by the laboratory as "detected but below the Reporting Limit; therefore result is an estimated concentration".

2 Groundwater Monitoring Plan for Construction and Demolition Expansion, Harnett County, Anderson Creek Landfill, prepared for C.T. Clayton, Sr., P.E., by GeoLogix, Revised September 2004.

Historic graphs are provided for constituents detected over their 2L Standard this event in **Appendix C**.

5.3.1 Inorganic Constituents

Water quality samples were analyzed for 8 RCRA metals. Chromium in CDMW-2 was detected above its 2L Standard. No other inorganics were detected above their respective 2L Standards.

Inorganic detections are summarized in **Table 3**.

5.3.2 Organic Constituents

Analytical results from the water quality samples indicate benzene in MW-5 was the only organic constituent detected above its 2L Standard for this event.

Organic detections are provided on **Table 4**

5.3.3 Surface Water Results

No inorganic or organic constituents were detected above 2B Standards in surface water samples this event.

6.0 GROUNDWATER CHARACTERIZATION

A potentiometric surface map was prepared from groundwater data for this sampling event. The data indicates that groundwater is flowing generally southwest towards the wetlands and McLeod Creek. This is consistent with groundwater flow patterns previously reported for the site. The potentiometric surface map is included as **Figure 1**.

Groundwater flow velocities during the sampling event were calculated using the equation:

$$V = Ki/n$$

where: K = hydraulic conductivity
i = groundwater gradient
n = porosity

Calculated groundwater velocities were 0.042 cm/sec (MW-4) and 0.002 cm/sec (MW-5) for the MSW wells; C&D wells averaged 1.53×10^{-4} cm/sec. Flow velocities and measured gradients are included in **Table 5**.

7.0 CONCLUSIONS

Monitoring event results indicate chromium concentrations in the sample from CDMW-2 were above the 2L Standard. Chromium is naturally occurring in the soils of North Carolina and, in conjunction with high sample turbidity can yield inorganic results that are "biased high". The organic constituent benzene was detected in the sample from MW-5. These results are similar to previous sampling events.

The next groundwater monitoring event is scheduled for October 2015. A report with laboratory analysis will be submitted to NCDENR in accordance with 15A NCAC 13B .0544.

FIGURES

April 2015 Groundwater Monitoring Report
Harnett County Anderson Creek Landfill
NC Solid Waste Permit No. 43-03

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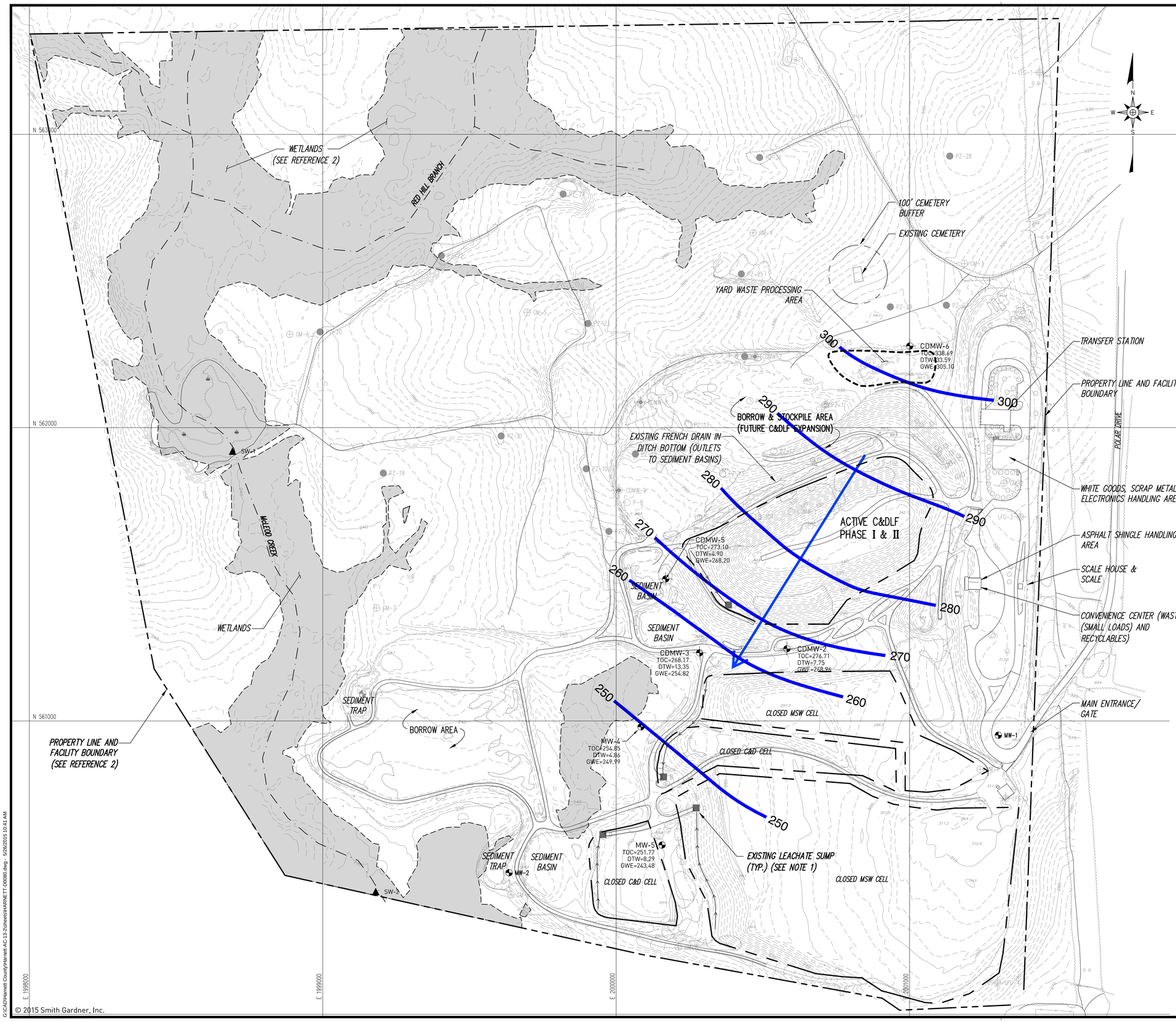

LEGEND

310	EXISTING 10' CONTOUR (SEE REFERENCE 1)
	EXISTING 2' CONTOUR
	PROPERTY LINE (APPROXIMATE)
	WASTE LIMITS (APPROXIMATE)
	WETLAND BOUNDARY (SEE REFERENCE 2)
	STREAM (APPROXIMATE)
PZ-14	PIEZOMETER (SEE REFERENCE 3)
CDMW-2	C&D MONITORING WELL
MW-4	MONITORING WELL
LFG-1	LANDFILL GAS MONITORING WELL (SEE REFERENCE 4)
B-104	WELL/PIEZOMETER (REMOVED)
SW-1	SURFACE WATER MONITORING LOCATION
A	LEACHATE SUMP (APPROXIMATE)
	FRENCH DRAIN (APPROXIMATE)
	POTENTIOMETRIC CONTOUR
	GROUNDWATER FLOW DIRECTION
TOC	TOP OF CASING ELEVATION
DTW	DEPTH TO WATER
GWE	GROUNDWATER ELEVATION

NOTES

1. GROUNDWATER DATA RECORDED ON APRIL 9, 2015 BY SMITH GARDNER, INC. PERSONNEL.

REFERENCES

1. OVERALL SITE BASE TOPOGRAPHY BASED ON AERIAL SURVEY BY MAPPING RESOURCE GROUP, DATED 7/16/13.
2. OVERALL EXISTING SITE CONDITIONS PROVIDED BY C.T. CLAYTON, SR., P.E., INC., IN DRAWING TITLED "03001C ACLF Exp MAS-1", DATED 5/31/13.
3. WELL DATA AND LOCATIONS FROM C.T. CLAYTON, SR., P.E., INC., IN DRAWING TITLED "03001C ACLF Exp MAS-1", DATED 5/31/13.
4. LANDFILL GAS MONITORING WELL LOCATIONS FROM FIELD SURVEY DATED NOVEMBER 4, 2013 BY STREAMLINE LAND SURVEYING, COATS, NC.

0 150' 300' 450'

PREPARED FOR:

HARNETT COUNTY
NORTH CAROLINA
SOLID WASTE DEPARTMENT

PREPARED BY:

NC LIC. NO. C-0828 (ENGINEERING)

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PROJECT TITLE:

ANDERSON CREEK LANDFILL
GROUNDWATER MONITORING

DRAWING TITLE:

POTENTIOMETRIC GROUNDWATER SURFACE MAP
APRIL 2015

DESIGNED: M.M.G.	PROJECT NO: HARNETT-AC-13-2
DRAWN: J.A.L.	SCALE: AS SHOWN
APPROVED:	DATE: MAY 2015
FILENAME: HARNETT-D0080	
SHEET NUMBER:	DRAWING NUMBER: FIG.1

G:\CAD\Harnett County\Harnett-AC-13-2\sheets\HARNETT-D0080.dwg - 5/26/2015 10:41 AM

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TABLES

April 2015 Groundwater Monitoring Report
Harnett County Anderson Creek Landfill
Solid Waste Permit No. 43-03

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Table 1
Groundwater Elevation
Harnett County Anderson Creek Landfill
April 9, 2015

By: LMH
Date: 5/4/2015

Monitoring Location	Well Installation Date	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Ground Surface Elevation (ft amsl)	TOC Elevation (ft)	Depth to Water (ft. bgs)	Water Table Elevation (ft. amsl)	Screen Interval (ft bgs)	Screen Geology
MSW											
MW-1	NA	35.29132	78.99564	2	21.20 [6]	313.08	NA	12.85	-	NA	NA
MW-2	NA	35.29003	79.00122	2	24 [6]	236.49	NA	11.29	-	NA	NA
MW-4	4/2/1996	35.29140	78.99972	2	17	253.02	254.85	4.86	249.99	NA	silty sandy clay
MW-5	4/2/1996	35.29029	78.99948	2	18	250.00	251.77	8.29	243.48	NA	NA
C&D											
CDMW-2	1/28/1997	35.29213	78.99805	2	40	274.66	276.71	7.75	268.96	25 - 40	sandy clay
CDMW-3	1/28/1997	35.29209	78.99905	2	43	266.09	268.17	13.35	254.82	28 - 43	sandy clay
CDMW-5	NA	35.29278	78.99943	2	29 [6]	271.35	273.10	4.90	268.20	NA	NA
CDMW-6	NA	35.29496	78.99665	2	42.15 [6]	336.00	338.69	33.59	305.10	NA	NA

NOTE:

1.) Table data for MSW wells MW-4 and MW-5 from Appendix II, Table 1- Monitoring Well Static Water Elevations, Hydraulic Condutcivity and Effective Porosity, Geologic and Hydrologic C&D Phase 3 landfill expansion, prepared by C.T. Clayton, Sr., P.E.
2.) Groundsurface elevations from 7/16/2013 aerial survey by Maping Resource Group
3.) TOC Elevation for C&D wells from Table 2 - Historical Groundwater Elevation Summary (2004-2009), Geologic and Hydrologic Report for C&D Phase 3 Landfill Expansion, prepared by C.T.Clayton, Sr., P.E., Inc. 3/20/2013.
4.) Depth to Water measured by S+G personnel: John Fearrington and Carter Shore
5.) MW-1 is not used in the groundwater characterization calculations due to its remote location from the landfill
6.) Depth to well bottom measured by S+G personnel 04/09/2015.
7.) NA - Well information was unable to be located
8.) ft amsl = feet above mean sea level
9.) ft bgs = feet below ground surface
10.) Avaialble well construction information from well logs (provided in Appendix A)

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Table 2
Field Parameters
Harnett County Anderson Creek Landfill
April 9, 2015

By: LMH
Date: 5/4/2015

Monitoring Location	pH (std units)	Specific Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MSW				
MW-1	5.87	180	20.7	45.1
MW-2	5.44	390	17.1	36.9
MW-4	6.03	260	18.2	26.1
MW-5	6.16	600	17.6	46.5
C&D				
CDMW-2	5.68	110	20.6	*
CDMW-3	5.65	130	20.5	538
CDMW-5	4.53	170	20.9	397
CDMW-6	5.10	50	20.8	214
SW-1	5.29	50	20.3	25.9
SW-2	6.50	480	19.2	12

NOTES:
Field data measured by S+G personnel: John Fearrington & Carter Shore
* Turbidity exceeded meter calibration

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Table 3
Detected Inorganic Constituents
Harnett County Anderson CreekLandfill
April 9, 2015

By: LMH
Date: 5/15/2015

Monitoring Location	MDL	SWSL	2L Standard	MCL	RL	2B Standard	MW-1	MW-2	MW-4	MW-5	CDMW-2	CDMW-3	CDMW-5	CDMW-6	SW-1	SW-2
Arsenic	0.62	10	10	10	1	10	3.5	<1	1.1	2.3	2	<1	<1	<1	<1	0.63 J
Barium	0.50	100	700	2000	5	2000000	5.8	400	48	110	280	240	180	11	65	74
Cadmium	0.074	1	2	5	1	2	0.094 J	0.081 J	<1	0.10 J	0.084 J	<1	<1	<1	0.075 J	<1
Chromium, total	0.26	10	10	100	1	50	1.2	1	0.34 J	0.48 J	**17**	8.3	5.1	0.78 J	1.7	1.1
Lead	0.18	10	15	15	1	25	0.36 J	0.86 J	0.25 J	0.23 J	12	5.4	3.6	0.44 J	0.62 J	0.67 J
Selenium	0.73	10	20	50	1	5	<1	<1	<1	4.3	<1	<1	<1	<1	<1	<1
Silver	0.04	10	20	100 [2]	1	0.06	0.064 J	0.062 J	<1	<1	0.078 J	<1	<1	<1	<1	<1

NOTE:

MDL	-	Method Detection Limit
SWSL	-	Solid Waste Section Quantitation Limits
2L	-	Groundwater Standards (15A NCAC 2L 0200)
MCL	-	EPA Maximum Contaminant Level
2	-	National Secondary Drinking Water Regulation
RL	-	Prism Report Limit
2B	-	NCAC 2B Standard for Class C waters
Bold	-	Detection above 2L Standard
J	-	Laboratory defined detection below the Reporting Limit, therefore result is an estimated concentration.
<RL	-	Not detected at or above reporting limit used by Prism Laboratories, Inc.

Table units are presented in ug/l.
Lab analysis by Prism Laboratories, Inc. Report dated 4/17/2015, Prism Work Order #5040183

SMITH+GARDNER

Table 4
Detected Organic Constituents
Harentt County Anderson Creek Landfill
April 9, 2015

By:LMH
Date: 5/4/2015

Monitoring Location	MDL	SWSL	2L Standard	RL	MCL	MW-1	MW-5
1,1-Dichloroethane	0.083	5	6	0.5	NE	<0.5	0.77
1,4-Dichlorobenzene	0.05	1	6	0.5	75	<0.5	0.51
Acetone	0.31	100	6000	5	NE	5.8	16
Benzene	0.048	1	1	0.5	5	<0.5	**1.2**
Chlorobenzene	0.062	3	50	0.5	100	<0.5	1.2

NOTE:

MDL	-	Method Detection Limit
SWSL	-	Solid Waste Section Quantitation Limits
2L	-	Groundwater Standards (15A NCAC 2L 0200)
RL	-	Prism Report Limit
MCL	-	Maximum Contaminant Level
<RL	-	Not detected at or above Reporting Limit used by Prism Laboratories, Inc.
Bold	-	Detection above 2L Standard
NE	-	Not Established

Table units are presented in ug/l.
Lab data analysis by Prism Laboratories, Inc. Report dated 4/17/2015, Prism Work Order #5040183

SMITH+GARDNER

By: LMH
Date: 05/04/2015

Table 5
Velocity and Conductivity Calculations
Harnett County Anderson Creek Landfill
April 9, 2015

Monitoring Location	Water Table Elevation (ft. amsl)	Hydraulic Conductivity (cm/sec)	Approximate Effective Porosity	Hydraulic Gradient (ft/ft)	Groundwater Velocity (cm/sec)
MSW					
MW-4	249.99	0.48	0.3	0.0263	0.042
MW-5	243.48	0.036	0.425	0.0237	0.002
C&D					
CDMW-2	268.96	2.36E-04	0.07	0.0208	7.01E-05
CDMW-3	254.82	2.36E-04	0.07	0.0942	3.18E-04
CDMW-5	268.20	2.36E-04	0.07	0.0225	7.59E-05
CDMW-6	305.10	2.36E-04	0.07	0.0443	1.49E-04

NOTE:

1.) Velocity Calculated from V=K*i/n
V = velocity
K = Hydraulic Conductivity
i = Gradient
n = Porosity
2.) Hydraulic Gradient Measured from April 2015 Potentiometric Surface
3.) Table data for MSW wells MW-4 and MW-5 from Appendix II, Table 1- Monitoring Well Static Water Elevations, Hydraulic Condutcivity and Effective Porosity, Geologic and Hydrologic C&D Phase 3 landfill expansion, prepared by C.T. Clayton, Sr., P.E. Inc., 3/20/2013
4.) TOC Elevation for C&D wells from Table 2 - Historical Groundwater Elevation Summary (2004-2009), Geologic and Hydrologic Report for C&D Phase 3 Landfill Expansion, prepared by C.T.Clayton, Sr., P.E., Inc. 3/20/2013.
5.) Hydraulic Conductivity for C&D locations estimated from Table 3, Aquifer Testing Summary, Anderson Creek Phase 3, Geologic and Hydrologic Report, prepared by C.T. Clayton Sr, P.E., Inc. March 2013.
6.) Porosity for C&D locations from Freeze and Cherry 1979, average specific yield

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Appendix A

Well Logs

April 2015 Groundwater Monitoring Report
Harnett County Anderson Creek Landfill
Solid Waste Permit No. 43-03

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PATTERSON
EXPLORATION SERVICES

P.O. BOX 3008 - SANFORD, N.C. 27331-3008 - (919) 774-3770
FAX: (919) 774-3510

TEST BORING FIELD REPORT

Job Name: Anderson Creek Landfill	**Job Number:** 030896	**Job Location:** S.R. 1116, Harnett County
Field Supervisor: Dennis Holder	**Date Drilled:** 04/02/96	**Boring or Well Number:** MW-4

SPT	1st 6	2nd 6	3rd 6	4th 6	BORING LOG	
					Depth	Formation Description
0' - 2'	1	1	1	2		
2' - 4'	1	1	2	4		
4' - 6'	5	5	4	4	0 - 1'	Brown to tan medium-grained **SAND**
6' - 8'	2	3	4	7	1' - 7.5'	Brown to gray silty clayey **SAND**
8' - 10'	1	2	2	1	7.5' - 9'	Tan coarse-grained wet **SAND**
10' - 12'	1	1	1	5	9' - 11.5'	Gray silty clayey **SAND**
12' - 14'	7	14	18	20	11.5' - 17'	Grayish blue silty sandy **CLAY**
14' - 16'	3	5	14	16		

PATTERSON EXPLORATION SERVICES

P.O. BOX 3008 - SANFORD, N.C. 27331-3008 - (919) 774-3770
FAX: (919) 774-3510

TEST BORING FIELD REPORT

Job Name: Anderson Creek Landfill	**Job Number:** 030896	**Job Location:** S.R. 1116, Harnett County
Field Supervisor: Dennis Holder	**Date Drilled:** 04/02/96	**Boring or Well Number:** MW-5

SPT	1st 6	2nd 6	3rd 6	4th 6	BORING LOG	
					Depth	Formation Description
0' - 2'	1	2	4	5		
2' - 4'	1	2	4	5		
4' - 6'	1	3	5	6	0 - 7'	Brown to gray silty clayey **SAND**
6' - 8'	1	2	4	6	7' - 9'	Grayish blue silty sandy **CLAY**
8' - 10'	2	2	2	3	9' - 9.5'	Gray moist **SAND**
10' - 12'	1	2	6	8	9.5' - 18'	Grayish to brown silty **CLAY**
12' - 14'	3	6	9	10		
14' - 16'	2	4	7	10		
16' - 18'	7	12	16	19		

Post Office Box 27687 • Raleigh • North Carolina • 27611
Phone (919) 733-5083

Lat._____ Long._____ PC_____
Minor Basin_____
Basin Code_____
Header Ent._____ GW-1 Ent._____

WELL CONSTRUCTION RECORD
CDMW-1

DRILLING CONTRACTOR Graham & Currie Well Drilling Co.

DRILLER REGISTRATION NUMBER 537

STATE WELL CONSTRUCTION PERMIT NUMBER n/a

1. Well Location: *(show sketch of the location below (on right))*

Nearest Town Spring Lake, North Carolina

County Harnett

S.R. 1116 - Doc's Road
(Road, Community, or Subdivision and Lot Number)

2. Owner Harnett County

Address Post Office Box 759, Lillington, North Carolina 27546
(Street or Route #) (City/Town) (State) (Zip Code)

3. Date Drilled 01/29/97 Use of Well Monitoring

4. Total Depth 63' Cuttings Collected ( )Yes (√)No

5. Does Well Replace Existing Well? ( )Yes (√)No

6. Static Water Level: 64.52 Feet ( )Above (√)Below Top of Casing
Top of Casing is 2.5 Feet Above Land Surface.

7. Yield *(gpm)* n/a Method of Test_____

8. Water Zones *(depth)* n/a

9. Chlorination → Type n/a Amount _____

Depth From	To	Drilling Log Formation Description
0 - 4'		Tan clayey SAND
4' - 12'		Tan moist sandy CLAY
12' - 17'		Tan moist clayey SAND
17' - 40'		Dull gray to brown CLAY
40 - 63'		Bluish-gray to gray sandy micaceous CLAY

If Additional Space Is Needed Use Back Of Form

10. CASING			
Depth	Diameter	Wall Thickness or weight/feet	Material
48' - +2.5'	2-inch	Sch.40	PVC

11. GROUT		
Depth	Material	Method
44' - 0'	Neat Cement	Tremie

12. SCREEN			
Depth	Diameter	Slot Size	Material
63' - 48'	2-inch	0.010	PVC

13. GRAVEL PACK		
Depth	Size	Material
63' - 46'	Medium-grained	Torpedo Sand

LOCATION SKETCH

Show direction and distance from at least "2" Two State Roads, or Other Map Reference Points

Please See Attached Maps

14. REMARKS A bentonite seal was placed in this well from 44' to 46'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

SUBMIT ORIGINAL TO DIVISION OF ENVIRONMENTAL MANAGEMENT
AND A COPY TO THE WELL OWNER

R. Dennis Horlohy 5/5/97
(Signature of Contractor or Agent) (Date)

Post Office Box 27687 • Raleigh • North Carolina • 27611
Phone (919) 733-5083

Lat._____ Long._____ PC_____
Minor Basin_____
Basin Code_____
Header Ent._____ GW-1 Ent._____

WELL CONSTRUCTION RECORD
CDMW-2

DRILLING CONTRACTOR Graham & Currie Well Drilling Co.

DRILLER REGISTRATION NUMBER 537

STATE WELL CONSTRUCTION PERMIT NUMBER n/a

1. Well Location: *(show sketch of the location below {on right})*

Nearest Town Spring Lake, North Carolina

County Harnett

S.R. 1116 - Doc's Road
(Road, Community, or Subdivision and Lot Number)

2. Owner Harnett County

Address Post Office Box 759, Lillington, North Carolina 27546
(Street or Route #) (City/Town) (State) (Zip Code)

3. Date Drilled 01/28/97 Use of Well Monitoring

4. Total Depth 40' Cuttings Collected ( )Yes (√)No

5. Does Well Replace Existing Well? ( )Yes (√)No

6. Static Water Level: 32.78 Feet ( )Above (√)Below Top of Casing
Top of Casing is 2.5 Feet Above Land Surface.

7. Yield *(gpm)* n/a Method of Test_____

8. Water Zones *(depth)* n/a

9. Chlorination → Type n/a Amount _____

Depth From	To	Drilling Log Formation Description
0 - 1.5'		Tan SAND
1.5' - 12.0'		Dark gray to black clayey loamy SAND
12.0' - 19.0'		Light gray wet clayey SAND
19.0' - 40.0'		Tan to bluish gray sandy CLAY

If Additional Space Is Needed Use Back Of Form

10. CASING

Depth	Diameter	Wall Thickness or weight/feet	Material
25' - +2.5'	2-inch	Sch.40	PVC

11. GROUT

Depth	Material	Method
21' - 0'	Neat Cement	Tremie

12. SCREEN

Depth	Diameter	Slot Size	Material
40' - 25'	2-inch	0.010	PVC

13. GRAVEL PACK

Depth	Size	Material
40' - 23'	Medium-grained	Torpedo Sand

LOCATION SKETCH

Show direction and distance from at least "2" Two State Roads, or Other Map Reference Points

Please See Attached Maps

REMARKS A bentonite seal was placed in this well from 21' to 23'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

SUBMIT ORIGINAL TO DIVISION OF ENVIRONMENTAL MANAGEMENT
AND A COPY TO THE WELL OWNER

R. Dennis Holder 5/5/97

(Signature of Contractor or Agent) (Date)

Post Office Box 27687 • Raleigh • North Carolina • 27611
Phone (919) 733-5083

WELL CONSTRUCTION RECORD
CDMW-3

Lat._____ Long._____ PC_____
Minor Basin_____
Basin Code_____
Header Ent._____ GW-1 Ent._____

LING CONTRACTOR Graham & Currie Well Drilling Co.

DRILLER REGISTRATION NUMBER 537

STATE WELL CONSTRUCTION PERMIT NUMBER n/a

1. Well Location: *(show sketch of the location below (on right))*

Nearest Town Spring Lake, North Carolina

S.R. 1116 - Doc's Road
(Road, Community, or Subdivision and Lot Number)

County Harnett

2. Owner Harnett County

Address Post Office Box 759, Lillington, North Carolina 27546
(Street or Route #) (City/Town) (State) (Zip Code)

3. Date Drilled 01/28/97 Use of Well Monitoring

4. Total Depth 43' Cuttings Collected ( )Yes (✓)No

5. Does Well Replace Existing Well? ( )Yes (✓)No

6. Static Water Level 38.73 Feet ( )Above (✓)Below Top of Casing
Top of Casing is 2.0 Feet Above Land Surface.

7. Yield *(gpm)* n/a Method of Test_____

8. Water Zones *(depth)* n/a

9. orination → Type n/a Amount _____

Depth From	Depth To	Drilling Log Formation Description
0	1.0'	Tan SAND
1.0'	5.0'	Dark gray to black loamy SAND
5.0'	10.0'	Tan to brown sandy CLAY
10.0'	13.0'	Wet tan clayey SAND
13.0'	16.0'	Tan moist sandy CLAY
16.0'	43.0'	Light gray to medium gray sandy CLAY

If Additional Space Is Needed Use Back Of Form

10. CASING

Depth	Diameter	Wall Thickness or weight/feet	Material
28' - +2.0'	2-inch	Sch.40	PVC

11. GROUT

Depth	Material	Method
24' - 0'	Neat Cement	Tremie

12. SCREEN

Depth	Diameter	Slot Size	Material
43' - 28'	2-inch	0.010	PVC

13. GRAVEL PACK

Depth	Size	Material
43' - 26'	Medium-grained	Torpedo Sand

LOCATION SKETCH

Show direction and distance from at least "2" Two State Roads, or Other Map Reference Points

Please See Attached Maps

. REMARKS A bentonite seal was placed in this well from 24' to 26'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

BMIT ORIGINAL TO DIVISION OF ENVIRONMENTAL MANAGEMENT
D A COPY TO THE WELL OWNER

R. Dennis Holder 5/5/97

(Signature of Contractor or Agent) (Date)

DEPTH (FT.)	DESCRIPTION	ELEV. (FT.)	N	MONITOR WELL
0.0	Brown yellow slightly silty fine to medium SAND (SP-SM).		9	Cement grout from 0.0' to 22.0' depth.
			11	
			19	
7.0	Yellow brown and light tan clayey fine to medium SAND (SC) with occational coarse sand.		32	
13.0	Yellow brown tan and gray slightly clayey fine to medium SAND (SP-SC) with trace coarse sand.		21	
17.0	Yellow brown and light tan slightly silty fine to medium SAND (SP-SM) with occational coarse sand.		13	Bentonite pellets from 22.0' to 23.0' depth.
			15	Medium well sand from 23.0' to 35.0' depth.
			13	Screened interval from 25.0' to 35.0' depth.
34.0	Very wet gray fine to medium sandy silty CLAY (CH).		50	
35.0	Boring terminated at 35 feet.			

Classified By: BOB NEEL, TITAN
Driller: CAROLINA DRILLING
Drill Rig: ROVER
Boring Type: HSA

GROUNDWATER READINGS

DATE	TIME	DEPTH	ELEVATION	STABILIZATION TIME
6/22/02	–	34.3'	–	71 DAYS

SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS

MONITOR WELL INSTALLATION

WELL NUMBER	CDMW 4-S
DATE DRILLED	4/12/02
PROJECT NUMBER	20422-80
PROJECT	ANDERSON CREEK LANDFILL
PAGE 1 OF 1	

TITAN ATLANTIC GROUP

DEPTH (FT.)	DESCRIPTION	ELEV. (FT.)	N
0.0	Yellow brown slightly silty fine to medium SAND (SP-SM) with trace coarse sand.		6
			15
5.0	Yellow brown clayey fine to medium SAND (SC).		27
			29
12.0	Tan light gray and yellow brown silty fine to medium SAND (SM) with trace coarse sand.		35
			24
			16
27.0	Moist to wet light tan slightly silty fine to medium SAND (SP-SM) with trace coarse sand.		11
			18
37.0	Yellow brown and gray fine sandy CLAY (SC) with occational medium sand.		50/5"

MONITOR WELL

Cement grout from 0.0' to 40.0' depth.

Classified By: BOB NEEL, TITAN
Driller: CAROLINA DRILLING
Drill Rig: ROVER
Boring Type: HSA

GROUNDWATER READINGS

DATE	TIME	DEPTH	ELEVATION	STABILIZATION TIME
6/22/02	–	35.5'	–	72 DAYS

SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS

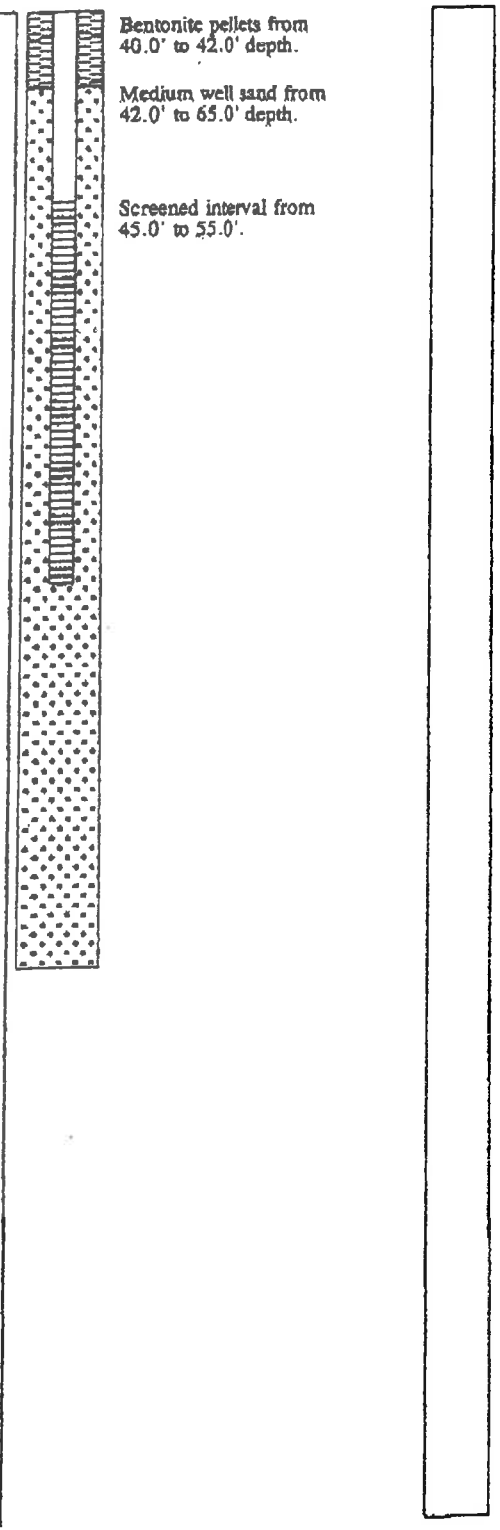
MONITOR WELL INSTALLATION

WELL NUMBER	CDMW 4-D
DATE DRILLED	4/11/02
PROJECT NUMBER	20422-80
PROJECT	ANDERSON CREEK LANDFILL
PAGE 1 OF 2	

TITAN ATLANTIC GROUP

DEPTH (FT.)	DESCRIPTION	ELEV. (FT.)	N
40.0	Yellow brown and gray fine sandy CLAY (SC) with occational medium sand.		
42.0	Gray fine to coarse sandy CLAY (CL).		40
			49
50.0	Dark gray slightly fine to medium sandy silty CLAY (CH).		34
			32
62.0	Light gray clayey silty fine to coarse SAND (SM).		30
65.0	Boring terminated at 65 feet.		

MONITOR WELL



Classified By: BOB NEEL, TITAN
Driller: CAROLINA DRILLING
Drill Rig: ROVER
Boring Type: HSA

GROUNDWATER READINGS

DATE	TIME	DEPTH	ELEVATION	STABILIZATION TIME
6/22/02	–	35.9'	–	72 DAYS

SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS

MONITOR WELL INSTALLATION

WELL NUMBER	CDMW 4-D
DATE DRILLED	4/1 1/02
PROJECT NUMBER	20422-80
PROJECT	ANDERSON CREEK LANDFILL
PAGE 1 OF 1	

TITAN ATLANTIC GROUP

Appendix B

Laboratory Analytical Report

April 2015 Groundwater Monitoring Report
Harnett County Anderson Creek Landfill
NC Solid Waste Permit No. 43-03

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PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

04/17/2015

Smith + Gardner, Inc.
Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Lab Submittal Date: 04/10/2015
Prism Work Order: 5040183

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

04/17/2015

Prism Work Order: 5040183

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1	5040183-01	Water	04/09/15	04/10/15
MW-2	5040183-02	Water	04/09/15	04/10/15
MW-4	5040183-03	Water	04/09/15	04/10/15
MW-5	5040183-04	Water	04/09/15	04/10/15
CDMW-2	5040183-05	Water	04/09/15	04/10/15
CDMW-3	5040183-06	Water	04/09/15	04/10/15
CDMW-5	5040183-07	Water	04/09/15	04/10/15
CDMW-6	5040183-08	Water	04/09/15	04/10/15
SW-1	5040183-09	Water	04/09/15	04/10/15
SW-2	5040183-10	Water	04/09/15	04/10/15

Samples were received in good condition at 1.4 degrees C unless otherwise noted.

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Summary of Detections

04/17/2015

Prism Work Order: 5040183

Prism ID	Client ID	Parameter	Method	Result		Units
5040183-01	MW-1	Arsenic	6020A	3.5		ug/L
5040183-01	MW-1	Barium	6020A	5.8		ug/L
5040183-01	MW-1	Cadmium	6020A	0.094	J	ug/L
5040183-01	MW-1	Chromium	6020A	1.2		ug/L
5040183-01	MW-1	Lead	6020A	0.36	J	ug/L
5040183-01	MW-1	Silver	6020A	0.064	J	ug/L
5040183-01	MW-1	Acetone	8260B	5.8		ug/L
5040183-02	MW-2	Barium	6020A	400		ug/L
5040183-02	MW-2	Cadmium	6020A	0.081	J	ug/L
5040183-02	MW-2	Chromium	6020A	1.0		ug/L
5040183-02	MW-2	Lead	6020A	0.86	J	ug/L
5040183-02	MW-2	Silver	6020A	0.062	J	ug/L
5040183-03	MW-4	Arsenic	6020A	1.1		ug/L
5040183-03	MW-4	Barium	6020A	48		ug/L
5040183-03	MW-4	Chromium	6020A	0.34	J	ug/L
5040183-03	MW-4	Lead	6020A	0.25	J	ug/L
5040183-04	MW-5	Arsenic	6020A	2.3		ug/L
5040183-04	MW-5	Barium	6020A	110		ug/L
5040183-04	MW-5	Cadmium	6020A	0.10	J	ug/L
5040183-04	MW-5	Chromium	6020A	0.48	J	ug/L
5040183-04	MW-5	Lead	6020A	0.23	J	ug/L
5040183-04	MW-5	Selenium	6020A	4.3		ug/L
5040183-04	MW-5	1,1-Dichloroethane	8260B	0.77		ug/L
5040183-04	MW-5	1,4-Dichlorobenzene	8260B	0.51		ug/L
5040183-04	MW-5	Acetone	8260B	16		ug/L
5040183-04	MW-5	Benzene	8260B	1.2		ug/L
5040183-04	MW-5	Chlorobenzene	8260B	1.2		ug/L
5040183-05	CDMW-2	Arsenic	6020A	2.0		ug/L
5040183-05	CDMW-2	Barium	6020A	280		ug/L
5040183-05	CDMW-2	Cadmium	6020A	0.084	J	ug/L
5040183-05	CDMW-2	Chromium	6020A	17		ug/L
5040183-05	CDMW-2	Lead	6020A	12		ug/L
5040183-05	CDMW-2	Silver	6020A	0.078	J	ug/L
5040183-06	CDMW-3	Barium	6020A	240		ug/L
5040183-06	CDMW-3	Chromium	6020A	8.3		ug/L
5040183-06	CDMW-3	Lead	6020A	5.4		ug/L
5040183-07	CDMW-5	Barium	6020A	180		ug/L
5040183-07	CDMW-5	Chromium	6020A	5.1		ug/L
5040183-07	CDMW-5	Lead	6020A	3.6		ug/L
5040183-08	CDMW-6	Barium	6020A	11		ug/L
5040183-08	CDMW-6	Chromium	6020A	0.78	J	ug/L
5040183-08	CDMW-6	Lead	6020A	0.44	J	ug/L
5040183-09	SW-1	Barium	6020A	65		ug/L
5040183-09	SW-1	Cadmium	6020A	0.075	J	ug/L

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Summary of Detections

04/17/2015

Prism Work Order: 5040183

Prism ID	Client ID	Parameter	Method	Result		Units
5040183-09	SW-1	Chromium	6020A	1.7		ug/L
5040183-09	SW-1	Lead	6020A	0.62	J	ug/L
5040183-10	SW-2	Arsenic	6020A	0.63	J	ug/L
5040183-10	SW-2	Barium	6020A	74		ug/L
5040183-10	SW-2	Chromium	6020A	1.1		ug/L
5040183-10	SW-2	Lead	6020A	0.67	J	ug/L

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/17/2015

Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 5040183-01
Prism Work Order: 5040183
Time Collected: 04/09/15 11:59
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:07	JAB	P5D0148
Arsenic	**3.5**	**ug/L**	**1.0**	**0.62**	**1**	**6020A**	**4/16/15 17:53**	**BGM**	**P5D0178**
Barium	**5.8**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 17:53**	**BGM**	**P5D0178**
Cadmium	**0.094 J**	**ug/L**	**1.0**	**0.074**	**1**	**6020A**	**4/16/15 17:53**	**BGM**	**P5D0178**
Chromium	**1.2**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 17:53**	**BGM**	**P5D0178**
Lead	**0.36 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 17:53**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 17:53	BGM	P5D0178
Silver	**0.064 J**	**ug/L**	**1.0**	**0.040**	**1**	**6020A**	**4/16/15 17:53**	**BGM**	**P5D0178**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 14:55	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 14:55	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 14:55	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 14:55	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 14:55	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 14:55	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 14:55	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 14:55	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 14:55	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 14:55	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 14:55	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 14:55	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 14:55	VHL	P5D0187
Acetone	**5.8**	**ug/L**	**5.0**	**0.31**	**1**	**8260B**	**4/13/15 14:55**	**VHL**	**P5D0187**
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 14:55	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 14:55	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 14:55	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 14:55	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 14:55	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 14:55	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 14:55	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 14:55	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 14:55	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 14:55	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 14:55	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 14:55	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 14:55	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 14:55	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 14:55	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 14:55	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 14:55	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 14:55	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 5040183-01
Prism Work Order: 5040183
Time Collected: 04/09/15 11:59
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 14:55	VHL	P5D0187
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 14:55	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 14:55	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 14:55	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 14:55	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 14:55	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 14:55	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 14:55	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 14:55	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 14:55	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 14:55	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 14:55	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 14:55	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 14:55	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 14:55	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 14:55	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 14:55	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 14:55	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*123 %*	*80-124*
Dibromofluoromethane	*126 %*	*75-129*
Toluene-d8	*121 %*	*77-123*

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Laboratory Report

04/17/2015

Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 5040183-02
Prism Work Order: 5040183
Time Collected: 04/09/15 10:31
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:10	JAB	P5D0148
Arsenic	BRL	ug/L	1.0	0.62	1	6020A	4/16/15 18:14	BGM	P5D0178
Barium	**400**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:14**	**BGM**	**P5D0178**
Cadmium	**0.081 J**	**ug/L**	**1.0**	**0.074**	**1**	**6020A**	**4/16/15 18:14**	**BGM**	**P5D0178**
Chromium	**1.0**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:14**	**BGM**	**P5D0178**
Lead	**0.86 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:14**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:14	BGM	P5D0178
Silver	**0.062 J**	**ug/L**	**1.0**	**0.040**	**1**	**6020A**	**4/16/15 18:14**	**BGM**	**P5D0178**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 15:21	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 15:21	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 15:21	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 15:21	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 15:21	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 15:21	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 15:21	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 15:21	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 15:21	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 15:21	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 15:21	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 15:21	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 15:21	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 15:21	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 15:21	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 15:21	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 15:21	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 15:21	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 15:21	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 15:21	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 15:21	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 15:21	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 15:21	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 15:21	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 15:21	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 15:21	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 15:21	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 15:21	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 15:21	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 15:21	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 15:21	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 15:21	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 15:21	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 5040183-02
Prism Work Order: 5040183
Time Collected: 04/09/15 10:31
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 15:21	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 15:21	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 15:21	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 15:21	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 15:21	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 15:21	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 15:21	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 15:21	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 15:21	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 15:21	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 15:21	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 15:21	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 15:21	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 15:21	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 15:21	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 15:21	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 15:21	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*118 %*	*80-124*
Dibromofluoromethane	*123 %*	*75-129*
Toluene-d8	*120 %*	*77-123*

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Laboratory Report

04/17/2015

Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 5040183-03
Prism Work Order: 5040183
Time Collected: 04/09/15 11:05
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:14	JAB	P5D0148
Arsenic	**1.1**	**ug/L**	**1.0**	**0.62**	**1**	**6020A**	**4/16/15 18:18**	**BGM**	**P5D0178**
Barium	**48**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:18**	**BGM**	**P5D0178**
Cadmium	BRL	ug/L	1.0	0.074	1	6020A	4/16/15 18:18	BGM	P5D0178
Chromium	**0.34 J**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:18**	**BGM**	**P5D0178**
Lead	**0.25 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:18**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:18	BGM	P5D0178
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 18:18	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 15:47	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 15:47	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 15:47	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 15:47	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 15:47	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 15:47	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 15:47	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 15:47	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 15:47	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 15:47	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 15:47	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 15:47	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 15:47	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 15:47	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 15:47	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 15:47	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 15:47	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 15:47	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 15:47	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 15:47	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 15:47	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 15:47	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 15:47	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 15:47	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 15:47	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 15:47	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 15:47	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 15:47	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 15:47	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 15:47	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 15:47	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 15:47	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 15:47	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 5040183-03
Prism Work Order: 5040183
Time Collected: 04/09/15 11:05
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 15:47	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 15:47	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 15:47	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 15:47	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 15:47	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 15:47	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 15:47	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 15:47	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 15:47	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 15:47	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 15:47	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 15:47	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 15:47	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 15:47	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 15:47	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 15:47	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 15:47	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*117 %*	*80-124*
Dibromofluoromethane	*120 %*	*75-129*
Toluene-d8	*119 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 5040183-04
Prism Work Order: 5040183
Time Collected: 04/09/15 10:55
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:18	JAB	P5D0148
Arsenic	**2.3**	**ug/L**	**1.0**	**0.62**	**1**	**6020A**	**4/16/15 18:24**	**BGM**	**P5D0178**
Barium	**110**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:24**	**BGM**	**P5D0178**
Cadmium	**0.10 J**	**ug/L**	**1.0**	**0.074**	**1**	**6020A**	**4/16/15 18:24**	**BGM**	**P5D0178**
Chromium	**0.48 J**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:24**	**BGM**	**P5D0178**
Lead	**0.23 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:24**	**BGM**	**P5D0178**
Selenium	**4.3**	**ug/L**	**1.0**	**0.73**	**1**	**6020A**	**4/16/15 18:24**	**BGM**	**P5D0178**
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 18:24	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 16:39	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 16:39	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 16:39	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 16:39	VHL	P5D0187
1,1-Dichloroethane	**0.77**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**4/13/15 16:39**	**VHL**	**P5D0187**
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 16:39	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 16:39	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 16:39	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 16:39	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 16:39	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 16:39	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 16:39	VHL	P5D0187
1,4-Dichlorobenzene	**0.51**	**ug/L**	**0.50**	**0.050**	**1**	**8260B**	**4/13/15 16:39**	**VHL**	**P5D0187**
Acetone	**16**	**ug/L**	**5.0**	**0.31**	**1**	**8260B**	**4/13/15 16:39**	**VHL**	**P5D0187**
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 16:39	VHL	P5D0187
Benzene	**1.2**	**ug/L**	**0.50**	**0.048**	**1**	**8260B**	**4/13/15 16:39**	**VHL**	**P5D0187**
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 16:39	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 16:39	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 16:39	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 16:39	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 16:39	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 16:39	VHL	P5D0187
Chlorobenzene	**1.2**	**ug/L**	**0.50**	**0.062**	**1**	**8260B**	**4/13/15 16:39**	**VHL**	**P5D0187**
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 16:39	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 16:39	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 16:39	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 16:39	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 16:39	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 16:39	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 16:39	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 16:39	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 16:39	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 5040183-04
Prism Work Order: 5040183
Time Collected: 04/09/15 10:55
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 16:39	VHL	P5D0187
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 16:39	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 16:39	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 16:39	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 16:39	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 16:39	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 16:39	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 16:39	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 16:39	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 16:39	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 16:39	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 16:39	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 16:39	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 16:39	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 16:39	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 16:39	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 16:39	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 16:39	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*116 %*	*80-124*
Dibromofluoromethane	*117 %*	*75-129*
Toluene-d8	*114 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-2
Prism Sample ID: 5040183-05
Prism Work Order: 5040183
Time Collected: 04/09/15 11:42
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:22	JAB	P5D0148
Arsenic	**2.0**	**ug/L**	**1.0**	**0.62**	**1**	**6020A**	**4/16/15 18:28**	**BGM**	**P5D0178**
Barium	**280**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:28**	**BGM**	**P5D0178**
Cadmium	**0.084 J**	**ug/L**	**1.0**	**0.074**	**1**	**6020A**	**4/16/15 18:28**	**BGM**	**P5D0178**
Chromium	**17**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:28**	**BGM**	**P5D0178**
Lead	**12**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:28**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:28	BGM	P5D0178
Silver	**0.078 J**	**ug/L**	**1.0**	**0.040**	**1**	**6020A**	**4/16/15 18:28**	**BGM**	**P5D0178**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:05	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 17:05	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 17:05	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 17:05	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 17:05	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 17:05	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 17:05	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 17:05	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 17:05	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 17:05	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 17:05	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:05	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 17:05	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 17:05	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 17:05	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 17:05	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 17:05	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:05	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 17:05	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 17:05	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 17:05	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:05	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:05	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 17:05	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 17:05	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 17:05	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 17:05	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 17:05	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 17:05	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 17:05	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 17:05	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 17:05	VHL	P5D0187

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-2
Prism Sample ID: 5040183-05
Prism Work Order: 5040183
Time Collected: 04/09/15 11:42
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 17:05	VHL	P5D0187
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 17:05	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 17:05	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 17:05	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 17:05	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 17:05	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 17:05	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 17:05	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 17:05	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 17:05	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 17:05	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 17:05	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 17:05	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 17:05	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:05	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 17:05	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 17:05	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 17:05	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*115 %*	*80-124*
Dibromofluoromethane	*120 %*	*75-129*
Toluene-d8	*111 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-3
Prism Sample ID: 5040183-06
Prism Work Order: 5040183
Time Collected: 04/09/15 11:12
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:26	JAB	P5D0148
Arsenic	BRL	ug/L	1.0	0.62	1	6020A	4/16/15 18:32	BGM	P5D0178
Barium	**240**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:32**	**BGM**	**P5D0178**
Cadmium	BRL	ug/L	1.0	0.074	1	6020A	4/16/15 18:32	BGM	P5D0178
Chromium	**8.3**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:32**	**BGM**	**P5D0178**
Lead	**5.4**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:32**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:32	BGM	P5D0178
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 18:32	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:31	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 17:31	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 17:31	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 17:31	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 17:31	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 17:31	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 17:31	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 17:31	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 17:31	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 17:31	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 17:31	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:31	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 17:31	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 17:31	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 17:31	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 17:31	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 17:31	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:31	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 17:31	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 17:31	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 17:31	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:31	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:31	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 17:31	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 17:31	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 17:31	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 17:31	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 17:31	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 17:31	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 17:31	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 17:31	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 17:31	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 17:31	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-3
Prism Sample ID: 5040183-06
Prism Work Order: 5040183
Time Collected: 04/09/15 11:12
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 17:31	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 17:31	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 17:31	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 17:31	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 17:31	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 17:31	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 17:31	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 17:31	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 17:31	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 17:31	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 17:31	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 17:31	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 17:31	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:31	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 17:31	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 17:31	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 17:31	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*122 %*	*80-124*
Dibromofluoromethane	*123 %*	*75-129*
Toluene-d8	*120 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-5
Prism Sample ID: 5040183-07
Prism Work Order: 5040183
Time Collected: 04/09/15 11:33
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:29	JAB	P5D0148
Arsenic	BRL	ug/L	1.0	0.62	1	6020A	4/16/15 18:37	BGM	P5D0178
Barium	**180**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:37**	**BGM**	**P5D0178**
Cadmium	BRL	ug/L	1.0	0.074	1	6020A	4/16/15 18:37	BGM	P5D0178
Chromium	**5.1**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:37**	**BGM**	**P5D0178**
Lead	**3.6**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:37**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:37	BGM	P5D0178
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 18:37	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:56	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 17:56	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 17:56	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 17:56	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 17:56	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 17:56	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 17:56	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 17:56	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 17:56	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 17:56	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 17:56	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:56	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 17:56	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 17:56	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 17:56	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 17:56	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 17:56	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:56	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 17:56	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 17:56	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 17:56	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 17:56	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:56	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 17:56	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 17:56	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 17:56	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 17:56	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 17:56	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 17:56	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 17:56	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 17:56	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 17:56	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 17:56	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-5
Prism Sample ID: 5040183-07
Prism Work Order: 5040183
Time Collected: 04/09/15 11:33
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 17:56	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 17:56	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 17:56	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 17:56	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 17:56	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 17:56	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 17:56	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 17:56	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 17:56	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 17:56	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 17:56	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 17:56	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 17:56	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 17:56	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 17:56	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 17:56	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 17:56	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*119 %*	*80-124*
Dibromofluoromethane	*122 %*	*75-129*
Toluene-d8	*118 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-6
Prism Sample ID: 5040183-08
Prism Work Order: 5040183
Time Collected: 04/09/15 11:49
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:33	JAB	P5D0148
Arsenic	BRL	ug/L	1.0	0.62	1	6020A	4/16/15 18:41	BGM	P5D0178
Barium	**11**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:41**	**BGM**	**P5D0178**
Cadmium	BRL	ug/L	1.0	0.074	1	6020A	4/16/15 18:41	BGM	P5D0178
Chromium	**0.78 J**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:41**	**BGM**	**P5D0178**
Lead	**0.44 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:41**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:41	BGM	P5D0178
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 18:41	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 18:22	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 18:22	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 18:22	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 18:22	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 18:22	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 18:22	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 18:22	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 18:22	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 18:22	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 18:22	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 18:22	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 18:22	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 18:22	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 18:22	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 18:22	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 18:22	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 18:22	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 18:22	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 18:22	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 18:22	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 18:22	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 18:22	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 18:22	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 18:22	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 18:22	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 18:22	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 18:22	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 18:22	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 18:22	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 18:22	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 18:22	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 18:22	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 18:22	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: CDMW-6
Prism Sample ID: 5040183-08
Prism Work Order: 5040183
Time Collected: 04/09/15 11:49
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 18:22	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 18:22	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 18:22	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 18:22	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 18:22	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 18:22	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 18:22	VHL	P5D0187
Tetrahydrofuran	BRL	ug/L	10	0.16	1	8260B	4/13/15 18:22	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 18:22	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 18:22	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 18:22	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 18:22	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 18:22	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 18:22	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 18:22	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 18:22	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 18:22	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*122 %*	*80-124*
Dibromofluoromethane	*123 %*	*75-129*
Toluene-d8	*121 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: SW-1
Prism Sample ID: 5040183-09
Prism Work Order: 5040183
Time Collected: 04/09/15 11:24
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:37	JAB	P5D0148
Arsenic	BRL	ug/L	1.0	0.62	1	6020A	4/16/15 18:56	BGM	P5D0178
Barium	**65**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 18:56**	**BGM**	**P5D0178**
Cadmium	**0.075 J**	**ug/L**	**1.0**	**0.074**	**1**	**6020A**	**4/16/15 18:56**	**BGM**	**P5D0178**
Chromium	**1.7**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 18:56**	**BGM**	**P5D0178**
Lead	**0.62 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 18:56**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 18:56	BGM	P5D0178
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 18:56	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 18:48	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 18:48	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 18:48	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 18:48	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 18:48	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 18:48	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 18:48	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 18:48	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 18:48	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 18:48	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 18:48	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 18:48	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 18:48	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 18:48	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 18:48	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 18:48	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 18:48	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 18:48	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 18:48	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 18:48	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 18:48	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 18:48	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 18:48	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 18:48	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 18:48	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 18:48	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 18:48	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 18:48	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 18:48	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 18:48	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 18:48	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 18:48	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 18:48	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: SW-1
Prism Sample ID: 5040183-09
Prism Work Order: 5040183
Time Collected: 04/09/15 11:24
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 18:48	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 18:48	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 18:48	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 18:48	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 18:48	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 18:48	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 18:48	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 18:48	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 18:48	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 18:48	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 18:48	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 18:48	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 18:48	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 18:48	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 18:48	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 18:48	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*113 %*	*80-124*
Dibromofluoromethane	*118 %*	*75-129*
Toluene-d8	*113 %*	*77-123*

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: SW-2
Prism Sample ID: 5040183-10
Prism Work Order: 5040183
Time Collected: 04/09/15 10:31
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Mercury	BRL	ug/L	0.20	0.012	1	7470A	4/13/15 16:41	JAB	P5D0148
Arsenic	**0.63 J**	**ug/L**	**1.0**	**0.62**	**1**	**6020A**	**4/16/15 19:00**	**BGM**	**P5D0178**
Barium	**74**	**ug/L**	**5.0**	**0.50**	**1**	**6020A**	**4/16/15 19:00**	**BGM**	**P5D0178**
Cadmium	BRL	ug/L	1.0	0.074	1	6020A	4/16/15 19:00	BGM	P5D0178
Chromium	**1.1**	**ug/L**	**1.0**	**0.26**	**1**	**6020A**	**4/16/15 19:00**	**BGM**	**P5D0178**
Lead	**0.67 J**	**ug/L**	**1.0**	**0.18**	**1**	**6020A**	**4/16/15 19:00**	**BGM**	**P5D0178**
Selenium	BRL	ug/L	1.0	0.73	1	6020A	4/16/15 19:00	BGM	P5D0178
Silver	BRL	ug/L	1.0	0.040	1	6020A	4/16/15 19:00	BGM	P5D0178
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 19:14	VHL	P5D0187
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 19:14	VHL	P5D0187
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	4/13/15 19:14	VHL	P5D0187
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 19:14	VHL	P5D0187
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 19:14	VHL	P5D0187
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	4/13/15 19:14	VHL	P5D0187
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	4/13/15 19:14	VHL	P5D0187
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	4/13/15 19:14	VHL	P5D0187
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	4/13/15 19:14	VHL	P5D0187
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 19:14	VHL	P5D0187
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	4/13/15 19:14	VHL	P5D0187
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 19:14	VHL	P5D0187
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	4/13/15 19:14	VHL	P5D0187
Acetone	BRL	ug/L	5.0	0.31	1	8260B	4/13/15 19:14	VHL	P5D0187
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	4/13/15 19:14	VHL	P5D0187
Benzene	BRL	ug/L	0.50	0.048	1	8260B	4/13/15 19:14	VHL	P5D0187
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	4/13/15 19:14	VHL	P5D0187
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 19:14	VHL	P5D0187
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	4/13/15 19:14	VHL	P5D0187
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	4/13/15 19:14	VHL	P5D0187
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	4/13/15 19:14	VHL	P5D0187
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	4/13/15 19:14	VHL	P5D0187
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 19:14	VHL	P5D0187
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	4/13/15 19:14	VHL	P5D0187
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	4/13/15 19:14	VHL	P5D0187
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 19:14	VHL	P5D0187
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	4/13/15 19:14	VHL	P5D0187
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	4/13/15 19:14	VHL	P5D0187
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	4/13/15 19:14	VHL	P5D0187
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	4/13/15 19:14	VHL	P5D0187
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	4/13/15 19:14	VHL	P5D0187
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	4/13/15 19:14	VHL	P5D0187
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	4/13/15 19:14	VHL	P5D0187

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Sample Matrix: Water

Client Sample ID: SW-2
Prism Sample ID: 5040183-10
Prism Work Order: 5040183
Time Collected: 04/09/15 10:31
Time Submitted: 04/10/15 08:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	4/13/15 19:14	VHL	P5D0187
Methyl Iodide	BRL	ug/L	5.0	0.33	1	8260B	4/13/15 19:14	VHL	P5D0187
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	4/13/15 19:14	VHL	P5D0187
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	4/13/15 19:14	VHL	P5D0187
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 19:14	VHL	P5D0187
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/13/15 19:14	VHL	P5D0187
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	4/13/15 19:14	VHL	P5D0187
Toluene	BRL	ug/L	0.50	0.044	1	8260B	4/13/15 19:14	VHL	P5D0187
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	4/13/15 19:14	VHL	P5D0187
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	4/13/15 19:14	VHL	P5D0187
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.12	1	8260B	4/13/15 19:14	VHL	P5D0187
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/13/15 19:14	VHL	P5D0187
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	4/13/15 19:14	VHL	P5D0187
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	4/13/15 19:14	VHL	P5D0187
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	4/13/15 19:14	VHL	P5D0187
Xylenes, total	BRL	ug/L	3.0	0.15	1	8260B	4/13/15 19:14	VHL	P5D0187

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*116 %*	*80-124*
Dibromofluoromethane	*112 %*	*75-129*
Toluene-d8	*111 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Prism Work Order: 5040183
Time Submitted: 4/10/2015 8:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0187 - 5030B										
Blank (P5D0187-BLK1)				Prepared & Analyzed: 04/13/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Iodide	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Tetrahydrofuran	BRL	10	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
trans-1,4-Dichloro-2-butene	BRL	10	ug/L							
Trichloroethylene	BRL	0.50	ug/L							

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Prism Work Order: 5040183
Time Submitted: 4/10/2015 8:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0187 - 5030B										
Blank (P5D0187-BLK1)				Prepared & Analyzed: 04/13/15						
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*58.8*		*ug/L*	*50.00*		*118*	*80-124*			
Surrogate: Dibromofluoromethane	*58.8*		*ug/L*	*50.00*		*118*	*75-129*			
Surrogate: Toluene-d8	*57.5*		*ug/L*	*50.00*		*115*	*77-123*			
LCS (P5D0187-BS1)				Prepared & Analyzed: 04/13/15						
1,1-Dichloroethylene	20.7	0.50	ug/L	20.00		104	70-154			
Benzene	19.8	0.50	ug/L	20.00		99	77-128			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	78-119			
Tetrahydrofuran	18.8	10	ug/L	20.00		94	70-130			
Toluene	19.8	0.50	ug/L	20.00		99	76-131			
Trichloroethylene	20.1	0.50	ug/L	20.00		100	77-133			
Surrogate: 4-Bromofluorobenzene	*55.2*		*ug/L*	*50.00*		*110*	*80-124*			
Surrogate: Dibromofluoromethane	*56.0*		*ug/L*	*50.00*		*112*	*75-129*			
Surrogate: Toluene-d8	*58.9*		*ug/L*	*50.00*		*118*	*77-123*			
LCS Dup (P5D0187-BSD1)				Prepared & Analyzed: 04/13/15						
1,1-Dichloroethylene	21.5	0.50	ug/L	20.00		107	70-154	4	20	
Benzene	20.5	0.50	ug/L	20.00		102	77-128	4	20	
Chlorobenzene	21.2	0.50	ug/L	20.00		106	78-119	4	20	
Tetrahydrofuran	17.8	10	ug/L	20.00		89	70-130	6	20	
Toluene	20.0	0.50	ug/L	20.00		100	76-131	0.8	20	
Trichloroethylene	20.6	0.50	ug/L	20.00		103	77-133	2	20	
Surrogate: 4-Bromofluorobenzene	*57.6*		*ug/L*	*50.00*		*115*	*80-124*			
Surrogate: Dibromofluoromethane	*56.3*		*ug/L*	*50.00*		*113*	*75-129*			
Surrogate: Toluene-d8	*59.9*		*ug/L*	*50.00*		*120*	*77-123*			

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Prism Work Order: 5040183
Time Submitted: 4/10/2015 8:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0187 - 5030B										
Matrix Spike (P5D0187-MS1)		**Source: 5040183-01**		Prepared: 04/13/15	Analyzed: 04/14/15					
1,1-Dichloroethylene	199	5.0	ug/L	200.0	BRL	100	65-162			
Benzene	192	5.0	ug/L	200.0	BRL	96	73-131			
Chlorobenzene	196	5.0	ug/L	200.0	BRL	98	76-119			
Tetrahydrofuran	182	100	ug/L	200.0	BRL	91	70-130			
Toluene	186	5.0	ug/L	200.0	BRL	93	72-135			
Trichloroethylene	199	5.0	ug/L	200.0	BRL	100	72-133			
Surrogate: 4-Bromofluorobenzene	*59.1*		*ug/L*	*50.00*		*118*	*80-124*			
Surrogate: Dibromofluoromethane	*55.0*		*ug/L*	*50.00*		*110*	*75-129*			
Surrogate: Toluene-d8	*59.0*		*ug/L*	*50.00*		*118*	*77-123*			
Matrix Spike Dup (P5D0187-MSD1)		**Source: 5040183-01**		Prepared: 04/13/15	Analyzed: 04/14/15					
1,1-Dichloroethylene	221	5.0	ug/L	200.0	BRL	111	65-162	10	20	
Benzene	206	5.0	ug/L	200.0	BRL	103	73-131	7	17	
Chlorobenzene	211	5.0	ug/L	200.0	BRL	106	76-119	7	20	
Tetrahydrofuran	192	100	ug/L	200.0	BRL	96	70-130	6	20	
Toluene	202	5.0	ug/L	200.0	BRL	101	72-135	8	18	
Trichloroethylene	211	5.0	ug/L	200.0	BRL	105	72-133	5	17	
Surrogate: 4-Bromofluorobenzene	*59.3*		*ug/L*	*50.00*		*119*	*80-124*			
Surrogate: Dibromofluoromethane	*58.0*		*ug/L*	*50.00*		*116*	*75-129*			
Surrogate: Toluene-d8	*61.4*		*ug/L*	*50.00*		*123*	*77-123*			

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Prism Work Order: 5040183
Time Submitted: 4/10/2015 8:00:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0148 - 7470A										
Blank (P5D0148-BLK1)				Prepared & Analyzed: 04/13/15						
Mercury	BRL	0.20	ug/L							
LCS (P5D0148-BS1)				Prepared & Analyzed: 04/13/15						
Mercury	9.75	0.20	ug/L	9.375		104	80-120			
Batch P5D0178 - 3005A										
Blank (P5D0178-BLK1)				Prepared: 04/14/15 Analyzed: 04/16/15						
Arsenic	BRL	1.0	ug/L							
Barium	BRL	5.0	ug/L							
Cadmium	BRL	1.0	ug/L							
Chromium	0.329	1.0	ug/L							J
Lead	BRL	1.0	ug/L							
Selenium	BRL	1.0	ug/L							
Silver	0.0420	1.0	ug/L							J
LCS (P5D0178-BS1)				Prepared: 04/14/15 Analyzed: 04/16/15						
Arsenic	95.8	1.0	ug/L	100.0		96	80-120			
Barium	99.7	5.0	ug/L	100.0		100	80-120			
Cadmium	96.7	1.0	ug/L	100.0		97	80-120			
Chromium	96.1	1.0	ug/L	100.0		96	80-120			
Lead	98.6	1.0	ug/L	100.0		99	80-120			
Selenium	93.8	1.0	ug/L	100.0		94	80-120			
Silver	96.8	1.0	ug/L	100.0		97	80-120			
Matrix Spike (P5D0178-MS1)		**Source: 5040183-01**		Prepared: 04/14/15 Analyzed: 04/16/15						
Arsenic	99.6	1.0	ug/L	100.0	3.48	96	75-125			
Barium	104	5.0	ug/L	100.0	5.84	98	75-125			
Cadmium	95.8	1.0	ug/L	100.0	0.0937	96	75-125			
Chromium	97.7	1.0	ug/L	100.0	1.24	96	75-125			
Lead	97.9	1.0	ug/L	100.0	0.355	98	75-125			
Selenium	89.7	1.0	ug/L	100.0	BRL	90	75-125			
Silver	95.4	1.0	ug/L	100.0	0.0640	95	75-125			

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Smith + Gardner, Inc.
Attn: Joan Smyth
14 N. Boylan Avenue
Raleigh, NC 27603

Project: Anderson Creek

Prism Work Order: 5040183
Time Submitted: 4/10/2015 8:00:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0178 - 3005A										
Matrix Spike Dup (P5D0178-MSD1)		**Source: 5040183-01**		Prepared: 04/14/15	Analyzed: 04/16/15					
Arsenic	99.7	1.0	ug/L	100.0	3.48	96	75-125	0.03	20	
Barium	102	5.0	ug/L	100.0	5.84	96	75-125	2	20	
Cadmium	93.2	1.0	ug/L	100.0	0.0937	93	75-125	3	20	
Chromium	96.3	1.0	ug/L	100.0	1.24	95	75-125	1	20	
Lead	95.2	1.0	ug/L	100.0	0.355	95	75-125	3	20	
Selenium	88.4	1.0	ug/L	100.0	BRL	88	75-125	1	20	
Silver	93.4	1.0	ug/L	100.0	0.0640	93	75-125	2	20	
Post Spike (P5D0178-PS1)		**Source: 5040183-01**		Prepared: 04/14/15	Analyzed: 04/16/15					
Arsenic	93.2		ug/L	100.0	3.48	90	80-120			
Barium	99.1		ug/L	100.0	5.84	93	80-120			
Cadmium	90.7		ug/L	100.0	0.0937	91	80-120			
Chromium	91.2		ug/L	100.0	1.24	90	80-120			
Lead	91.8		ug/L	100.0	0.355	91	80-120			
Selenium	87.2		ug/L	100.0	0.123	87	80-120			
Silver	91.9		ug/L	100.0	0.0640	92	80-120			

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Sample Extraction Data

Prep Method: 3005A

Lab Number	Batch	Initial	Final	Date/Time
5040183-01	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-02	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-03	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-04	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-05	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-06	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-07	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-08	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-09	P5D0178	50 mL	50 mL	04/14/15 8:10
5040183-10	P5D0178	50 mL	50 mL	04/14/15 8:10

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
5040183-01	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-02	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-03	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-04	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-05	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-06	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-07	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-08	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-09	P5D0148	20 mL	30 mL	04/13/15 8:20
5040183-10	P5D0148	20 mL	30 mL	04/13/15 8:20

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5040183-01	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-02	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-03	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-04	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-05	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-06	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-07	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-08	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-09	P5D0187	10 mL	10 mL	04/13/15 8:34
5040183-10	P5D0187	10 mL	10 mL	04/13/15 8:34

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PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: SMYTH GARDNER, INC.
Report To/Contact Name: JOHN SMYTH
Reporting Address: 14 N. BOYLAN AVE.
RALEIGH, NC 27603
Phone: (919) 828-0577 Fax (Yes) (No): _____
Email Address: JOHN@SMYTHGARDNERINC.COM
EDD Type: PDF ✓ Excel ✓ Other _____
Site Location Name: ANDERSON CREEK
Site Location Physical Address: _____

Project Name: ANDERSON CREEK
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: JOHN SMYTH
Address: 14 N. BOYLAN AVE
RALEIGH, NC 27603
Purchase Order No./Billing Reference HARNETT-AC-14-1
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?			

TEMP: Therm ID: TR-13 Observed: 2.3 °C / Corr: 1.4 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC____ SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED						REMARKS	PRISM LAB ID NO.
MW-1	4/9/15	11:59	W											SEE BOTTLE	01
MW-2		10:31													02
MW-4		11:05													03
MW-5		10:55													04
CDMW-2		11:42													05
CDMW-3		11:12													06
CDMW-5		11:33													07
CDMW-6		11:49													08
SW-1		11:24													09
SW-2		10:31													10

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) JOHN FEARRINGTON Affiliation SMYTH GARDNER

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
		4-9-15	1630
Relinquished By: (Signature)	Received By: (Signature)	4/10/15	0745
Relinquished By: (Signature)	Received For Prism Laboratories By:	4/10/15	0800

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other BEARFAX 1-COOLER

COC Group No. 5040123

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

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Appendix C

Time vs. Concentration Graphs

April 2015 Groundwater Monitoring Report
Harnett County Anderson Creek Landfill
NC Solid Waste Permit No. 43-03

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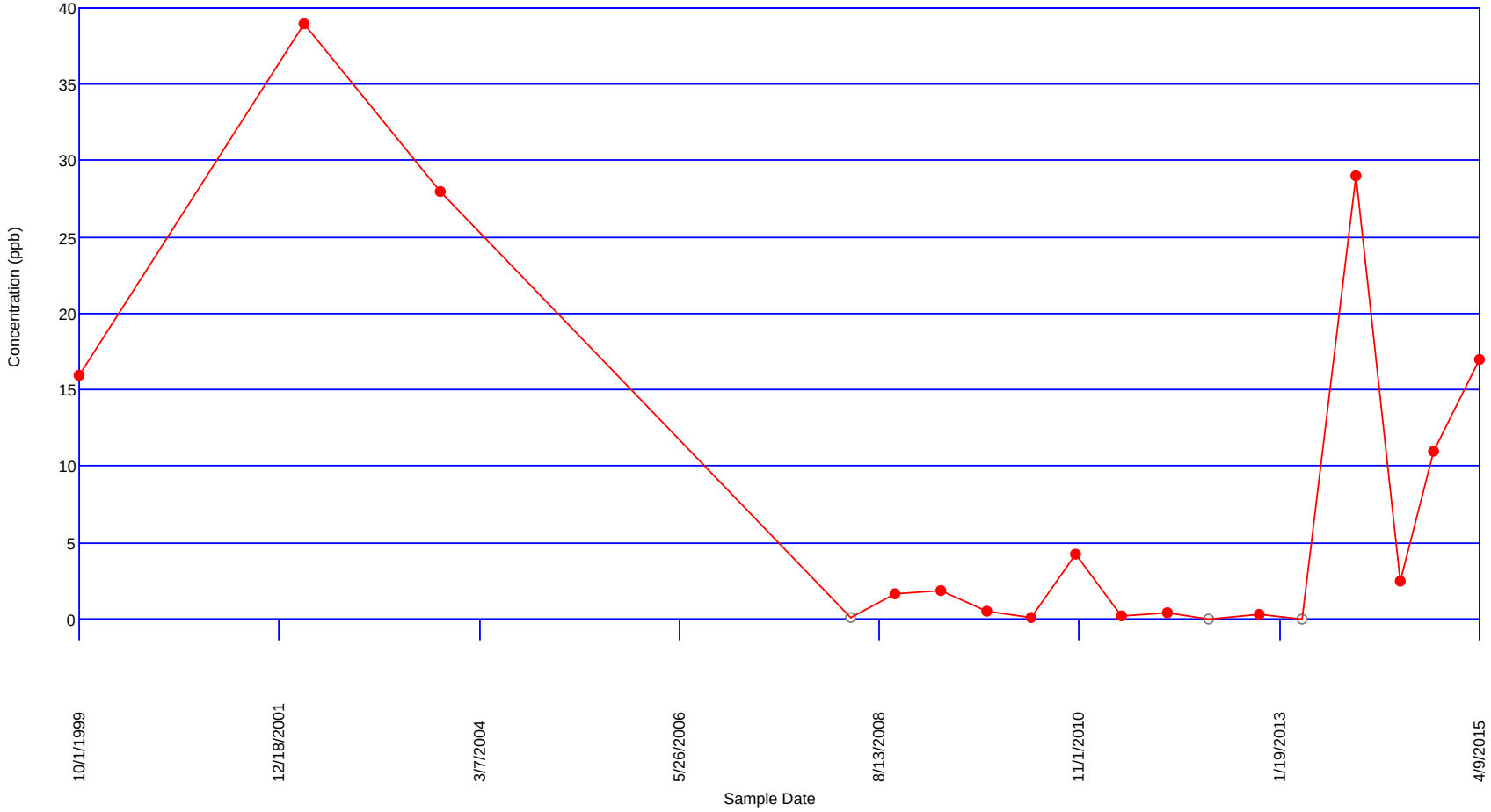
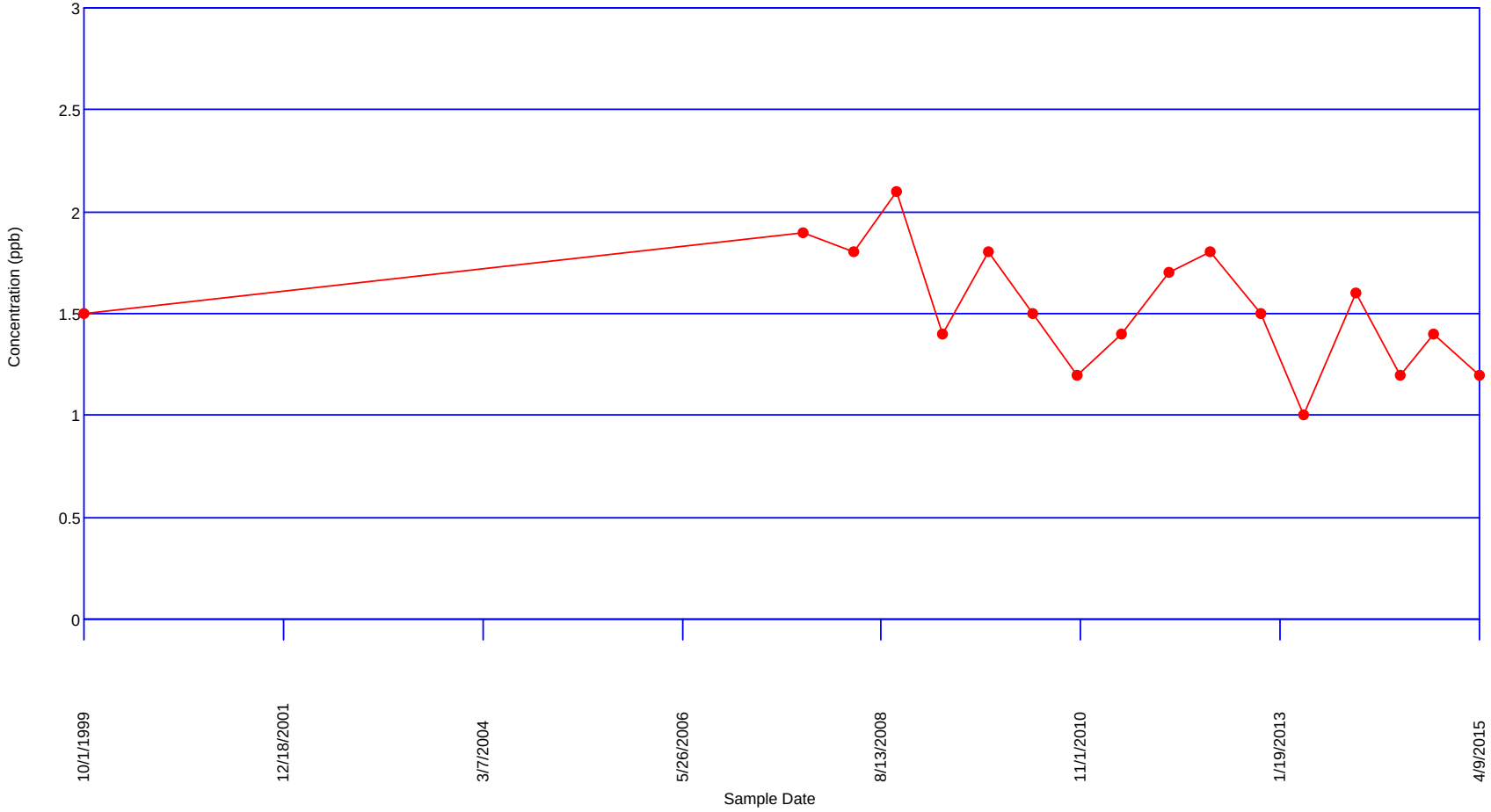
Chromium, total

Time-Series Graph of CDMW-2



Benzene

Time-Series Graph of MW-5