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# **PRELIMINARY SITE ASSESSMENT**

PRELIMINARY SITE ASSESSMENT  
SR 4121 (GREENSBORO/HIGH POINT RD,) FROM PROP US 311  
RICHARD R. AND MARY M. GLOVER PROPERTY

4014 AND 4016 PUMP STATION ROAD  
PARCEL No. 062  
HIGH POINT, GUILFORD COUNTY, NORTH CAROLINA

NCDOT WBS ELEMENT 34802.1.1  
STATE PROJECT U-2412A

October 31, 2017

Prepared for:

Mr. Gordon Box  
North Carolina Department of Transportation  
Geotechnical Engineering Unit  
1589 Mail Service Center  
Raleigh, North Carolina 27699

Prepared by:

ECS Southeast, LLP  
4811 Koger Boulevard  
Greensboro, North Carolina 27407

ECS Project 49:5143



October 31, 2017

Mr. Gordon Box  
North Carolina Department of Transportation  
Geotechnical Engineering Unit  
1589 Mail Service Center  
Raleigh, NC 27699

Reference: Preliminary Site Assessment  
State Project: U-2412A  
WBS Element: 34802.1.1  
Parcel No. 062  
4014 and 4016 Pump Station Road  
High Point, Guilford County, North Carolina  
ECS Project 49.5143

Dear Mr. Box:

Please find enclosed a report summarizing the sampling activities for the Preliminary Site Assessment conducted at the referenced site. This report summarizes our field activities, results, laboratory report, and conclusions.

Should questions arise or additional information be required, please contact the undersigned.

Sincerely,

**ECS Southeast, LLP**

DocuSigned by:

*Randy Cavallier*

ECBEECA51431444...

Randy Cavallier

Assistant Project Manager

DocuSigned by:

*John Stewart*

B00623D27C3149F...

John M. Stewart, P.G., CPG

Principal Geologist

## PRELIMINARY SITE ASSESSMENT

**Site Name and Location:** Richard R. and Mary M. Glover Property  
Parcel No.062  
4014 and 4016 Pump Station Road  
High Point, Guilford County, North Carolina

**Latitude and Longitude:** 35.985359° N, 79.950458° W

**Property Owner** Richard R. and Mary M. Glover  
108 Bramble Road  
Jamestown, North Carolina 27282

**NCDOT Project No.:** WBS Element 34802.1.1  
State Project U-2412A

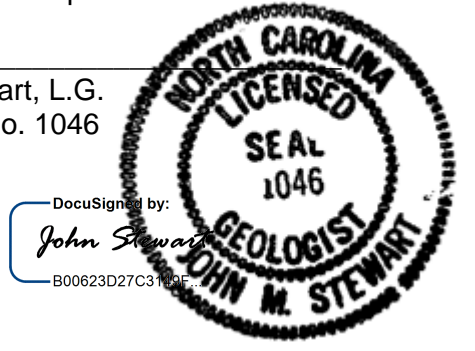
**Date of Report:** October 31, 2017

**Consultant:** ECS Southeast, LLP  
4811 Koger Boulevard  
Greensboro, North Carolina 27407  
Attn: Mr. John M. Stewart, L.G.  
Phone: (336) 856-7150

### Seal and Signature of Certifying Licensed Geologist

I, John M. Stewart, a Licensed Geologist for ECS Southeast, LLP do certify that the information contained in this report is correct and accurate to the best of my knowledge.

John M. Stewart, L.G.  
NC License No. 1046



## TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Site Description.....	1
1.2	Site Location.....	1
2.0	SITE ASSESSMENT .....	1
2.1	Soil Sampling.....	1
3.0	RESULTS.....	2
3.1	Soil Sample .....	2
4.0	CONCLUSIONS .....	3
5.0	LIMITATIONS.....	4

### TABLES

1	Soil Sample FID Results
2	Soil Sample Analytical Summary
3	Summary of VOC Results

### FIGURES

1	Site Location Map
2	Sample Location Map
3	Petroleum Impacted Soil
4	VOC and Metals Map
5	Area of Impacted Soil
6	NCDOT Conventional Plan Sheet Symbols

### APPENDICES

A	Site Photographs
B	Boring Logs
C	Laboratory Report

## **1.0 INTRODUCTION**

ECS Southeast, LLP (ECS) has prepared this Preliminary Site Assessment (PSA) report documenting assessment activities performed at the Richard R. and Mary M. Glover property (Parcel 062) located at 4014 and 4016 Pump Station Road in High Point, Guilford County, North Carolina (Figure 1). This assessment was conducted on behalf of the North Carolina Department of Transportation (NCDOT) in accordance with ECS Proposal 49.6313-P dated August 24, 2017.

An apparent construction laydown yard is located east of North Scientific Street and south of Pump Station Road in High Point, Guilford County, North Carolina. Based on a series of aerial photographs, the site area has been used to store tanks (the materials stored in the tanks is unknown) since at least 2002 and various pieces of construction equipment. The sampling included in the PSA will emphasize the area south of the alignment, where the tanks have been present and an odor was detectable during the NCDOT site visit, and north of the alignment, where erosion control plans propose a drainage basin that will require excavation and possible special handling of excavated materials. There is no known groundwater incident associated with this site.

The purpose of this assessment was to determine the presence or absence of impacted soil at the subject property in proposed construction areas related to the construction of the proposed alignment.

### **1.1 Site Description**

The area of investigation consists of the proposed Right-of-Way across Parcel No. 062. An apparent construction laydown yard is located across the proposed Right-of-Way. Based on a series of aerial photographs, the site area has been used to store construction equipment and supplies since at least 2002. The property is currently owned by Richard R. and Mary M. Glover. Site photographs are shown in Appendix A.

### **1.2 Site Location**

The subject site is located east of North Scientific Street and south of Pump Station Road in Guilford County, High Point, North Carolina (Figures 1 and 2). The site address is 4014 and 4016 Pump Station Road, High Point, North Carolina.

## **2.0 SITE ASSESSMENT**

### **2.1 Soil Sampling**

To determine if contaminated soil may be encountered during the proposed construction activities, fifteen soil borings were drilled to collect soil samples across the property and two borings were drilled to collect samples for background metal concentrations. An ECS professional and direct push drill rig crew met at the property on September 26, 2017. Seventeen soil borings (GP-1 through GP-15 plus BKG-1 and BKG-2) were drilled by direct

push technology (DPT). The depth of the soil borings ranged from a depth of 9 feet below the ground surface (bgs) to 20 feet bgs where refusal was encountered. The approximate location of the borings is shown on Figure 2.

The soil samples were collected by driving a macrocore sampler in 5-foot intervals in each soil boring. Each 5-foot sample sleeve was divided in half and screened for volatile organic compounds in the field using a Thermo Scientific Toxic Vapor Analyzer 2020 flame ionization detector (FID). In each boring, the soil interval with the highest FID reading was collected for laboratory analysis. If no organic vapors were detected, the sample collected from the bottom of the boring was submitted for analysis. The FID readings ranged from 5.0 parts per million (ppm) to 5,861 ppm. The FID readings are summarized in Table 1. Copies of the boring logs are included in Appendix B. Prior to the initial boring and after each subsequent boring, the sampling equipment was decontaminated using a high pressure steam cleaner.

All soil samples were placed into laboratory provided jars, labeled, and maintained on ice until delivered to Red Labs in Wilmington, North Carolina. The soil samples collected for laboratory analysis were analyzed for total petroleum hydrocarbons (TPH) similar to diesel and gasoline range organics (DRO/GRO), benzene, toluene, ethylbenzene, total xylenes (BTEX), total aromatics, 16 EPA polycyclic aromatic hydrocarbons (PAHs) and benzo-a-pyrene (BaP) using ultraviolet fluorescence (UVF). A portion of each sample was submitted to Prism Laboratories in Charlotte, North Carolina to be analyzed for volatile organic compounds (VOCs) using EPA Method 8260 and total RCRA metals. The samples were maintained under chain-of-custody until delivered to the laboratories. Chain-of Custody Records are included in Appendix C.

### **3.0 RESULTS**

#### **3.1 Soil Sample**

Laboratory analysis detected TPH GRO in soil samples GP-1, GP-2, GP-3, GP-5, GP-6, GP-9, GP-13, GP-14, and GP-15 at concentrations that exceed the laboratory reporting limit. TPH GRO was detected in GP-5 above the North Carolina Department of Environmental Quality (NCDEQ) UST Section's Action Level of 50 milligram per kilogram (mg/kg).

Laboratory analysis detected TPH DRO in all the soil samples except GP-4 at concentrations that exceed the laboratory reporting limit. TPH DRO was detected in GP-1 and GP-5 above the NCDEQ UST Section's Action Level of 100 milligram per kilogram (mg/kg).

The petroleum laboratory results are summarized in Table 2 and on Figure 3.

Laboratory analysis detected acetone in soil sample GP-1, GP-3, GP-5, GP-6, GP-8, GP-9, GP-10, GP-11, GP-12, GP-13, GP-14, and GP-15 at a concentration that exceeds the laboratory reporting limit but not it's Inactive Hazardous Sites Branch (IHSB) Protection of Groundwater Preliminary Soil Remediation Goal (PSRG).

Laboratory analysis detected naphthalene in soil sample GP-5 at a concentration that exceeds the laboratory reporting limit but not it's IHSB PSRG.

Laboratory analysis detected methylene chloride in soil sample GP-7 at an estimated concentration that exceeds the laboratory reporting limit but not it's IHSB PSRG.

Laboratory analysis detected chloromethane in soil sample GP-12 at a concentration that exceeds the laboratory reporting limit but not it's IHSB PSRG.

Barium, chromium, and lead were detected in all the samples, including the background samples above the laboratory reporting limits but below their IHSB PSRGs.

Arsenic was detected in all the samples except GP-2, including the background samples, above the laboratory reporting limits but below its IHSB PSRG in samples GP-1, GP-3, GP-4, GP-5, GP-7, GP-8, GP-9, GP-12, GP-13, and GP-14. Arsenic was detected above the IHSB Protection of Groundwater and Industrial PSRGs in samples GP-6, GP-10, GP-11, and GP-15.

The VOC and metal laboratory results are summarized in Table 3 and on Figure 4.

The laboratory report and associated chain-of-custody document are included in Appendix C.

The area of potential petroleum contaminated soil covers two small areas each approximately 2,000 square feet (a circular area with a diameter of approximately 50 ft) and is located in the area of borings GP-1 and GP-5 (Figure 5). The petroleum contaminated soil appears to be located between land surface and a depth of at least ten feet below ground surface in the area of GP-1 and fifteen feet below ground surface in the area of GP-5. Based upon these dimensions, ECS estimates that the volume of petroleum contaminated soil in each area is approximately 740 and 1,111 cubic yards, respectively.

#### **4.0 CONCLUSIONS**

Based on results of the laboratory analysis and field observations, ECS has the following conclusions:

- ◆ Groundwater was not encountered in the soil borings;
- ◆ Gasoline and diesel range TPH was detected in the soil samples collected from soil borings GP-1 and GP-5 that exceed the North NCDEQ UST Section's Action Level. The petroleum release is likely former surface spills associated with the excavation equipment.
- ◆ There was no field or laboratory evidence that the tanks had leaked.
- ◆ Acetone was detected in several soil samples and methylene chloride and chloromethane were detected in one sample but not in concentrations that exceed the IHSB Protection of Groundwater and/or Industrial/Commercial PSRGs. The acetone and methylene chloride are commonly used in the laboratory and are attributed to laboratory artifacts. The source of the chloromethane may be a result of organic particles reacting to the extraction material. Naphthalene was detected in



the sample collected from GP-5. Analysis of GP-5 also detected both GRO and DRO. It is ECS's opinion the naphthalene is related to petroleum hydrocarbons detected in the sample.

- ◆ Arsenic, barium, chromium, and lead were detected in most of the samples collected. They were also detected in the background samples at similar concentrations. These metals are common in Piedmont soils of North Carolina and it is ECS' opinion they are naturally occurring and the results of surface spills of releases at the site.
- ◆ Approximately 740 and 1,111 cubic yards of petroleum impacted soil was determined to be located at two locations associated with leaking construction equipment left on site and/or surface spills.

## **5.0 LIMITATIONS**

Our work has been performed in a manner consistent with that level of care and skill ordinarily exercised by other members of ECS's profession practicing in the same locality, under similar conditions and at the date the services were provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. ECS makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

The information included on graphic representations in the report has been compiled from a variety of sources and is subject to change without notice. ECS makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. These documents are not intended for use as a land survey product, nor are they designed or intended as a construction design document. The use or misuse of the information contained on these graphic representations is at the sole risk of the party using or misusing the information.

# TABLES

**TABLE 1: SOIL SAMPLE FID RESULTS**  
**Parcel No. 062 Richard & Mary Glover Property**  
**4014 & 4016 Pump Station Road**  
**High Point, Guilford County, North Carolina**  
**ECS Project No. 49.5143**

SAMPLE LOCATION	DEPTH (feet bgs)	FID READINGS
GP-1	0.0 - 5.0	<b>286</b>
	5.0 - 10.0	150
	10.0-11.0	No Reading
GP-2	0.0 - 5.0	6.8
	5.0 - 10.0	263
	10.0-15.0	<b>326</b>
	15.0-18.0	12.6
GP-3	0.0 - 5.0	613
	5.0 - 10.0	<b>973</b>
	10.0-15.0	117
	15.0-20.0	478
GP-4	0.0 - 5.0	926.0
	5.0 - 10.0	1,631
	10.0-15.0	<b>1,915</b>
GP-5	0.0 - 5.0	605
	5.0 - 10.0	<b>1,378</b>
	10.0-15.0	205
GP-6	0.0 - 5.0	39.3
	5.0 - 10.0	244
	10.0 - 15.0	<b>2,176</b>
GP-7	0.0 - 5.0	25.17
	5.0 - 9.0	<b>40.17</b>
GP-8	0.0 - 5.0	477
	5.0 - 10.0	<b>4,351</b>
	10.0 - 15.0	657
GP-9	0.0 - 5.0	101
	5.0 - 10.0	<b>3,186</b>
	10.0 - 15.0	1,563
GP-10	0.0 - 5.0	5.8
	5.0 - 10.0	1,380
	10.0 - 15.0	<b>1,677</b>
GP-11	0.0 - 5.0	89.5
	5.0 - 10.0	2,153
	10.0 - 15.0	<b>5,861</b>
GP-12	0.0 - 5.0	7.7
	5.0 - 10.0	212
	10.0 - 15.0	<b>795</b>
GP-13	0.0 - 5.0	5.0
	5.0 - 10.0	997
	10.0 - 15.0	<b>1,785</b>
GP-14	0.0 - 5.0	8.6
	5.0 - 10.0	452
	10.0 - 15.0	<b>981</b>
GP-15	0.0 - 5.0	253
	5.0 - 10.0	932
	10.0 - 15.0	<b>580</b>

Notes:

Samples were collected on 9/26/2017  
Readings reported in parts per million  
feet bgs = feet below ground surface  
**Bold** = Sample selected for laboratory analysis

**TABLE 2: SOIL SAMPLE ANALYTICAL SUMMARY**  
**Parcel No. 062 Richard & Mary Glover Property**  
**4014 & 4016 Pump Station Road**  
**High Point, Guilford County, North Carolina**  
**ECS Project No. 49.5143**

SAMPLE ID	COLLECTION DATE	COLLECTION DEPTH (ft. bgs)	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP
GP-1	9/26/2017	5	<18.5	<18.5	<b>121.2</b>	121.2	54.7	5.9	<0.74
GP-2		15	<0.53	<0.53	0.69	0.69	0.48	<0.17	<0.021
GP-3		10	<0.44	1.4	4.4	5.8	3.4	<0.17	<0.018
GP-4		15	<0.2	<0.2	<0.2	0.1	0.1	<0.06	<0.008
GP-5		10	<94	<b>424.2</b>	<b>964.8</b>	1,389	668.6	37.6	<3.8
GP-6		15	<1.2	9.4	75.4	84.8	37.1	1.9	<0.049
GP-7		9	<1.3	<1.3	85.4	85.4	42.3	4.5	0.11
GP-8		10	<0.5	<0.5	14.3	14.3	7.2	0.38	<0.02
GP-9		10	<0.5	2.4	15.9	18.3	7.7	0.88	0.033
GP-10		15	<0.68	<0.68	30.9	30.9	15.8	0.89	<0.027
GP-11		15	<0.49	<0.49	37.9	37.9	18.2	2.1	0.065
GP-12		15	<0.46	<0.46	28.3	28.3	12.7	0.66	<0.019
GP-13		15	<0.47	1.2	13	14.2	12.3	0.68	<0.019
GP-14		15	<0.47	1.1	14.4	15.5	13.9	0.78	<0.019
GP-15		10	<0.46	0.72	1.3	2	0.54	<0.15	<0.018
State Action Level			NS	50	100	NS	NS	NS	NS

Notes:  
ft. bgs = Feet below the ground surface  
Results presented in milligrams per kilogram, analogous to parts per million  
DRO = Diesel Range Organics  
BQL = Below quantitation limit  
BTEX = Benzene, Toluene, Ethylbenzene and Xylenes  
TPH = Total Petroleum Hydrocarbons

**TABLE 3: SUMMARY OF VOC RESULTS**

Parcel No. 062 Richard & Mary Glover Property  
 4014 & 4016 Pump Station Road  
 High Point, Guilford County, North Carolina  
 ECS Project No. 49.5143

Sample Identification	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	GP-10	GP-11	GP-12	GP-13	GP-14	GP-15	BG-1	BG-2	Protection of Groundwater PSRG	Industrial/ Commercial PSRG
Sample Date	04/27/17																		
<b>VOCs by EPA Method 8260</b>																			
Acetone	0.068	<0.046	0.077	<0.046	0.13	0.14	<0.046	0.14	0.056	0.047J	0.10	0.12	0.033J	0.086	0.039J			24	100,000
Naphthalene	<0.011	<0.011	<0.011	<0.011	0.019	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011			0.21	17
Methylene Chloride	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0038J	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			0.023	640
Chloromethane	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	0.014	<0.0047	<0.0047	<0.0047			0.015	92
<b>RCRA Metals by EPA Method 6010D</b>																			
Arsenic	1.8	<0.26	1.1	0.5	0.46	<b>13</b>	0.47	1.7	1.7	<b>6.9</b>	<b>4.6</b>	3.0	1.0	2.3	<b>3.2</b>	1.7	0.41	5.8	3.0
Barium	120	410	69	81	160	53	73	84	88	110	68	43	57	95	62	92	110	580	44,000
Chromium	73	41	23	150	17	140	14	39	64	93	18	43	39	48	210	81	130	36,000	100,000
Lead	6.3	2.4	10	2.9	3.1	11	2.4	5.3	8.5	77	27	29	5.9	27	12	22	2.6	270	800
Mercury	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	0.026	0.37	<0.024	0.055	0.026	0.055	<0.024	0.049	<0.024	1.0	3.13

Notes:

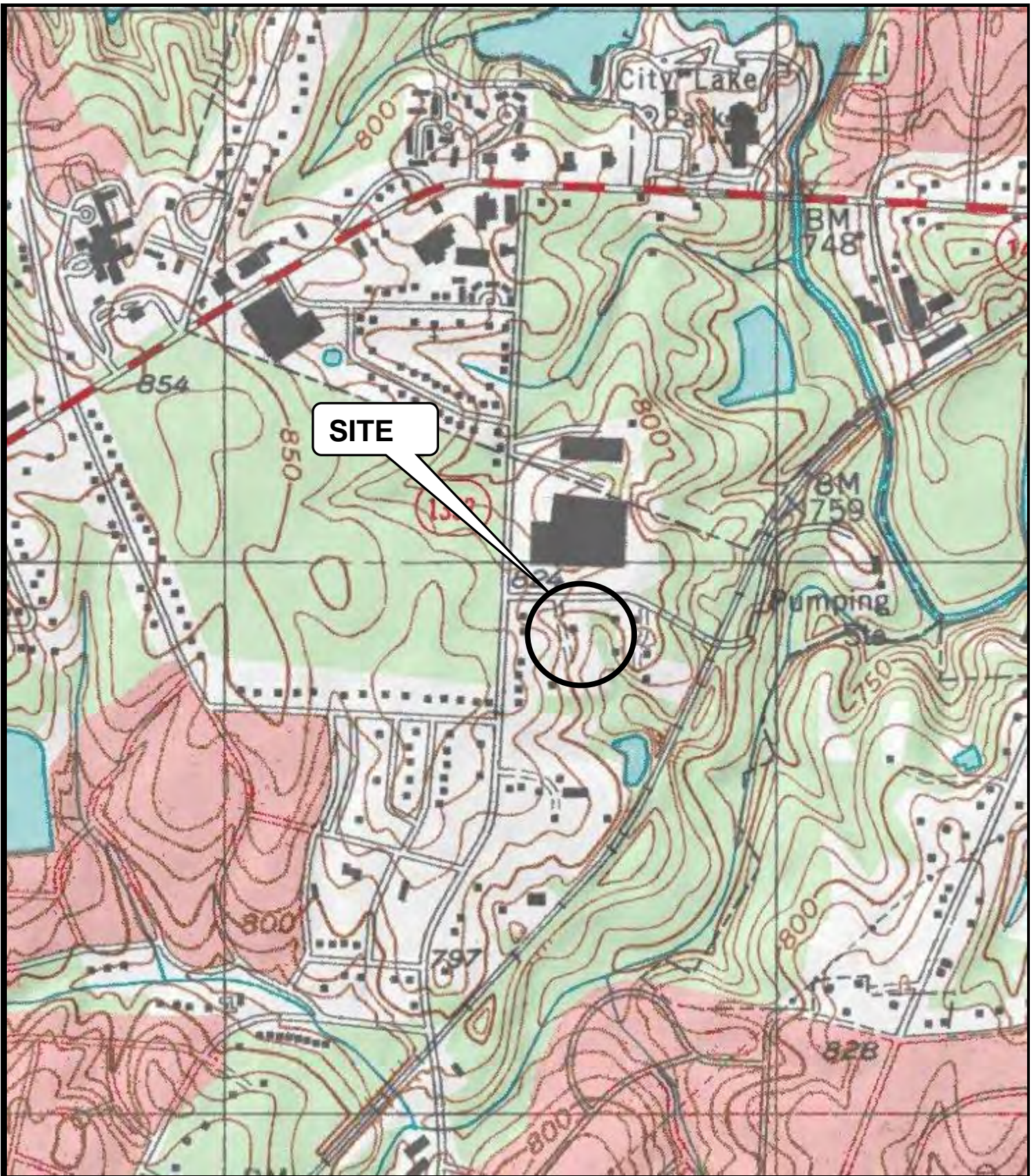
mg/kg = milligrams per kilograms = ppm (parts per million)

**BOLD** = Concentration Above the Protection of Groundwater PSRG

**UNDERLINE** = Concentration Above Industrial Commercial PSRG

J = Estimated concentration

# FIGURES



**SOURCE:**

USGS TOPOGRAPHIC MAP  
 HIGH POINT, NORTH CAROLINA  
 QUADRANGLE, DATED 1969 AND REVISED  
 1997

— = 2,000'



**FIGURE 1**

**SITE LOCATION MAP  
 PARCEL 062**

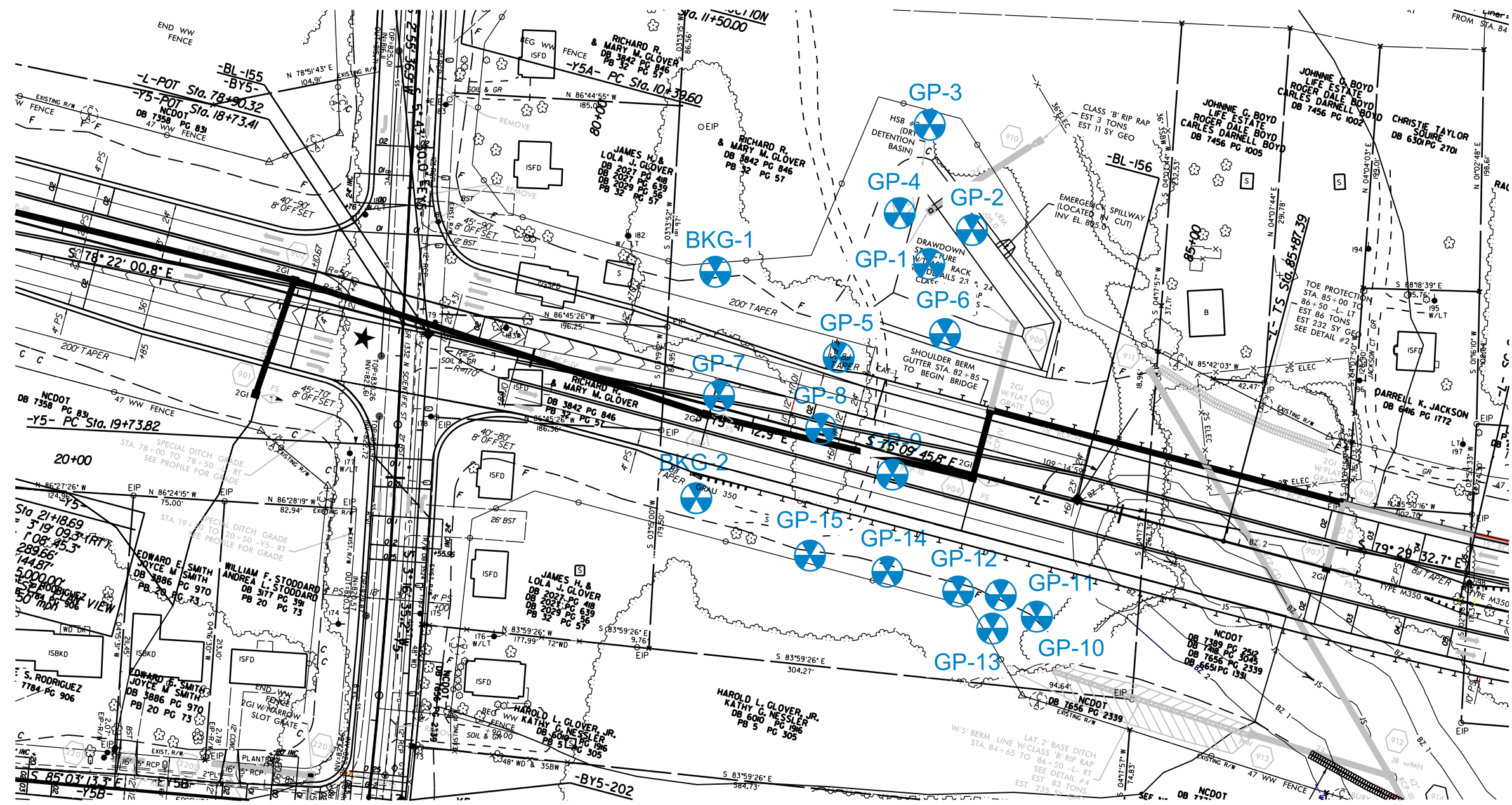
4014 and 4016 PUMP STATION ROAD  
 HIGH POINT, GUILFORD COUNTY, NC

ECS PROJECT NO. 49-5143

EXPLANATION

 = SOIL BORING

\*NC DOT CONVENTIONAL  
PLAN SHEET SYMBOLS  
PAGE ATTACHED



REVISIONS

DATE

SCALE 1"=100'



REFERENCE:

SITE DATA PROVIDED  
BY NC DOT  
IN ELECTRONIC FORMAT



**FIGURE 2 - SAMPLE LOCATION MAP  
PARCEL NO. 062 - GLOVER PROPERTY  
SR 4121 FROM PROP US 311 TO EAST 6 SR 1480  
HIGH POINT, GUILFORD COUNTY  
NORTH CAROLINA**

NC DOT PROJECT ID: U-2412A	DATE: 01/02/2018	WBS ELEMENT 34802.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49-5143



GP-7	
COMPONENT	RESULT
BTEX	<1.3
GRO	<1.3
DRO	85.4
TPH	85.4
AROMATICS	42.3
16 EPA PAH's	4.5
BaP	0.11

GP-5	
COMPONENT	RESULT
BTEX	<94
GRO	424.2
DRO	964.8
TPH	1389
AROMATICS	668.6
16 EPA PAH's	37.6
BaP	<3.8

GP-1	
COMPONENT	RESULT
BTEX	<18.5
GRO	<18.5
DRO	121.2
TPH	121.2
AROMATICS	54.7
16 EPA PAH's	<5.9
BaP	<0.74

GP-4	
COMPONENT	RESULT
BTEX	<0.2
GRO	<0.2
DRO	<0.2
TPH	0.1
AROMATICS	0.1
16 EPA PAH's	<0.06
BaP	<0.008

GP-3	
COMPONENT	RESULT
BTEX	<0.44
GRO	1.4
DRO	4.4
TPH	5.8
AROMATICS	3.4
16 EPA PAH's	<0.17
BaP	<0.018

GP-2	
COMPONENT	RESULT
BTEX	<0.53
GRO	<0.53
DRO	0.69
TPH	0.69
AROMATICS	0.48
16 EPA PAH's	<0.17
BaP	<0.021

EXPLANATION  
 = SOIL BORING  
 SB-1

\*NC DOT CONVENTIONAL  
 PLAN SHEET SYMBOLS  
 PAGE ATTACHED

GP-6	
COMPONENT	RESULT
BTEX	<1.2
GRO	9.4
DRO	75.4
TPH	84.8
AROMATICS	37.1
16 EPA PAH's	1.9
BaP	<0.049

GP-9	
COMPONENT	RESULT
BTEX	<0.5
GRO	2.4
DRO	15.9
TPH	18.3
AROMATICS	7.7
16 EPA PAH's	0.88
BaP	0.033

GP-12	
COMPONENT	RESULT
BTEX	<0.46
GRO	<0.46
DRO	28.3
TPH	28.3
AROMATICS	12.7
16 EPA PAH's	0.66
BaP	<0.019

GP-11	
COMPONENT	RESULT
BTEX	<0.49
GRO	<0.49
DRO	37.9
TPH	37.9
AROMATICS	18.2
16 EPA PAH's	2.1
BaP	0.065

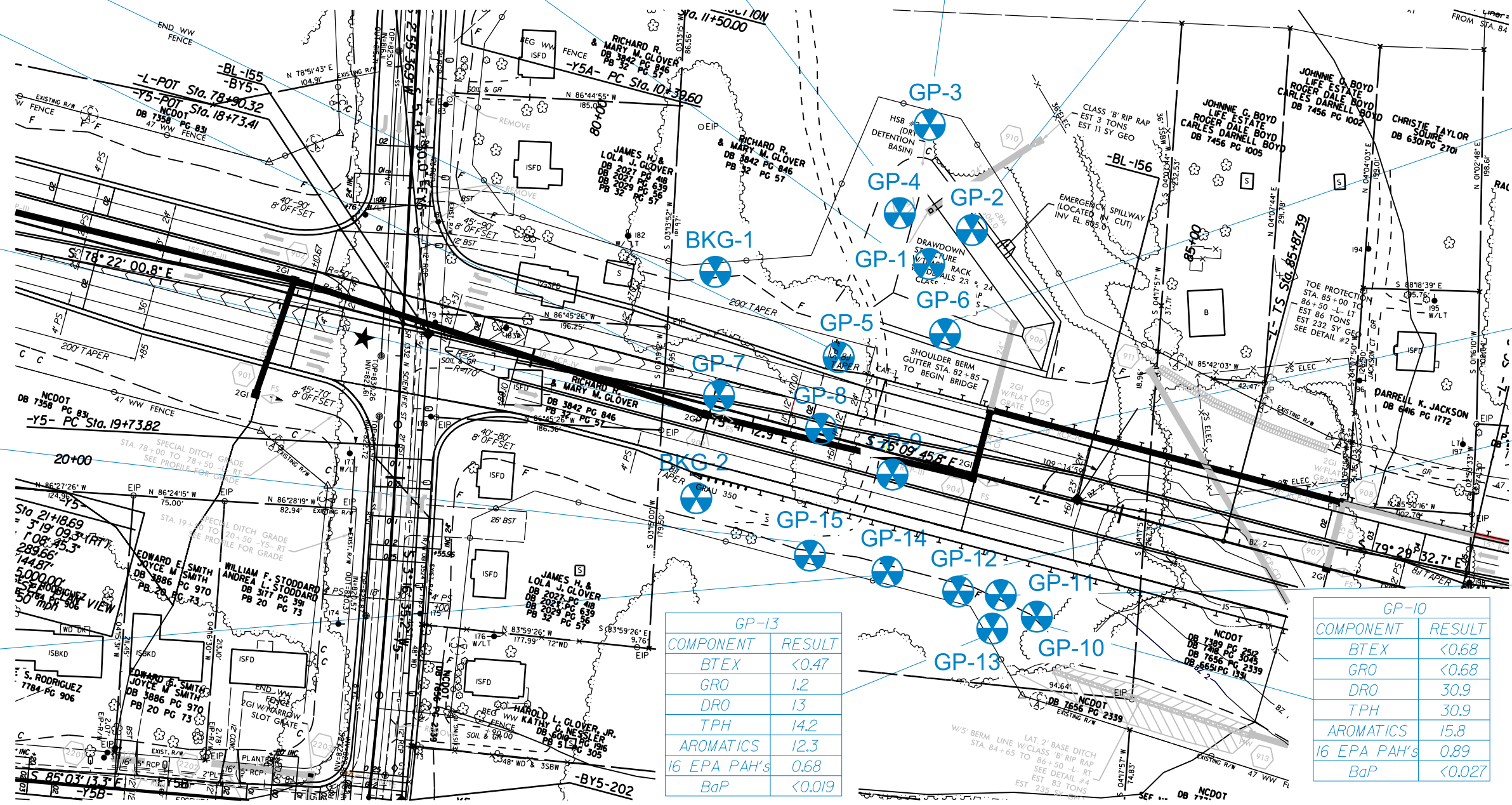
GP-8	
COMPONENT	RESULT
BTEX	<0.5
GRO	<0.5
DRO	14.3
TPH	14.3
AROMATICS	7.2
16 EPA PAH's	0.38
BaP	<0.02

GP-15	
COMPONENT	RESULT
BTEX	<0.46
GRO	0.72
DRO	1.3
TPH	2
AROMATICS	0.54
16 EPA PAH's	<0.15
BaP	<0.018

GP-14	
COMPONENT	RESULT
BTEX	<0.47
GRO	1.1
DRO	14.4
TPH	15.5
AROMATICS	13.9
16 EPA PAH's	0.78
BaP	<0.019

GP-13	
COMPONENT	RESULT
BTEX	<0.47
GRO	1.2
DRO	13
TPH	14.2
AROMATICS	12.3
16 EPA PAH's	0.68
BaP	<0.019

GP-10	
COMPONENT	RESULT
BTEX	<0.68
GRO	<0.68
DRO	30.9
TPH	30.9
AROMATICS	15.8
16 EPA PAH's	0.89
BaP	<0.027



REVISIONS

DATE

SCALE 1"=100'



REFERENCE:  
 SITE DATA PROVIDED  
 BY NC DOT  
 IN ELECTRONIC FORMAT



**FIGURE 3 - PETROLEUM IMPACTED SOIL  
 PARCEL NO. 062 - GLOVER PROPERTY  
 SR 4121 FROM PROP US 311 TO EAST 6 SR 1480  
 HIGH POINT, GUILFORD COUNTY  
 NORTH CAROLINA**

NC DOT PROJECT ID: U-2412A	DATE: 01/02/2018	WBS ELEMENT 34802.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49-5143

GP-7	
COMPONENT	RESULT
ARSENIC	0.47
BARIUM	73
CHROMIUM	14
LEAD	2.4
ACETONE	0.079
METHYLENE CHLORIDE	0.0038J

GP-5	
COMPONENT	RESULT
ARSENIC	0.46
BARIUM	160
CHROMIUM	17
LEAD	3.1
ACETONE	0.13
NAPHTHALENE	0.019

BKG-1	
COMPONENT	RESULT
ARSENIC	1.7
BARIUM	92
CHROMIUM	81
LEAD	22
MERCURY	0.049

GP-1	
COMPONENT	RESULT
ARSENIC	1.8
BARIUM	120
CHROMIUM	73
LEAD	6.3
ACETONE	0.068

GP-4	
COMPONENT	RESULT
ARSENIC	0.50
BARIUM	81
CHROMIUM	150
LEAD	2.9

GP-3	
COMPONENT	RESULT
ARSENIC	1.1
BARIUM	69
CHROMIUM	23
LEAD	10
ACETONE	0.077

GP-2	
COMPONENT	RESULT
BARIUM	410
CHROMIUM	41
LEAD	2.4

EXPLANATION  
 = SOIL BORING  
 SB-1

\*NC DOT CONVENTIONAL  
 PLAN SHEET SYMBOLS  
 PAGE ATTACHED

GP-8	
COMPONENT	RESULT
ARSENIC	1.7
BARIUM	84
CHROMIUM	39
LEAD	5.3
ACETONE	0.14

GP-15	
COMPONENT	RESULT
ARSENIC	3.2
BARIUM	62
CHROMIUM	210
LEAD	12
ACETONE	0.0395J

GP-14	
COMPONENT	RESULT
ARSENIC	2.3
BARIUM	95
CHROMIUM	48
LEAD	27
MERCURY	0.055
ACETONE	0.086

BKG-2	
COMPONENT	RESULT
ARSENIC	0.41
BARIUM	110
CHROMIUM	130
LEAD	2.6

GP-6	
COMPONENT	RESULT
ARSENIC	13
BARIUM	53
CHROMIUM	140
LEAD	11
ACETONE	0.14

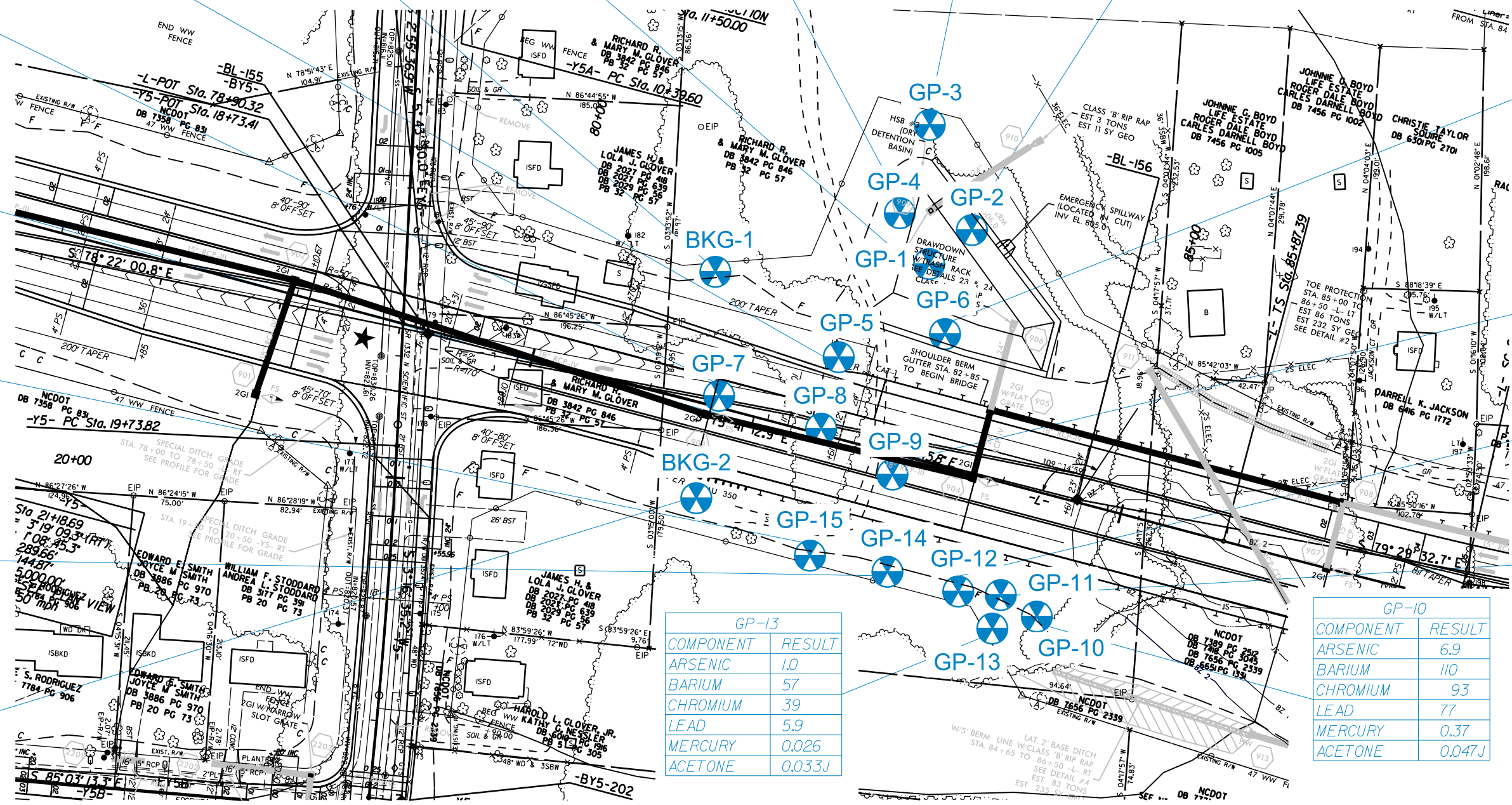
GP-9	
COMPONENT	RESULT
ARSENIC	1.7
BARIUM	88
CHROMIUM	64
LEAD	8.5
MERCURY	0.026
ACETONE	0.056

GP-12	
COMPONENT	RESULT
ARSENIC	3.0
BARIUM	43
CHROMIUM	43
LEAD	29
MERCURY	0.055
ACETONE	0.12
CHLORO-METHANE	0.014

GP-11	
COMPONENT	RESULT
ARSENIC	4.6
BARIUM	68
CHROMIUM	18
LEAD	27
ACETONE	0.10

GP-13	
COMPONENT	RESULT
ARSENIC	1.0
BARIUM	57
CHROMIUM	39
LEAD	5.9
MERCURY	0.026
ACETONE	0.033J

GP-10	
COMPONENT	RESULT
ARSENIC	6.9
BARIUM	110
CHROMIUM	93
LEAD	77
MERCURY	0.37
ACETONE	0.047J



REVISIONS

DATE

SCALE 1"=100'



REFERENCE:  
 SITE DATA PROVIDED  
 BY NC DOT  
 IN ELECTRONIC FORMAT



**FIGURE 4 - VOC AND METALS MAP  
 PARCEL NO. 062 - GLOVER PROPERTY  
 SR 4121 FROM PROP US 311 TO EAST 6 SR 1480  
 HIGH POINT, GUILFORD COUNTY  
 NORTH CAROLINA**

NC DOT PROJECT ID: U-2412A	DATE: 01/02/2018	WBS ELEMENT 34802.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49-5143

GP-7	
COMPONENT	RESULT
BTEX	<1.3
GRO	<1.3
DRO	85.4
TPH	85.4
AROMATICS	42.3
16 EPA PAH's	4.5
BaP	0.11

GP-5	
COMPONENT	RESULT
BTEX	<94
GRO	424.2
DRO	964.8
TPH	1389
AROMATICS	668.6
16 EPA PAH's	37.6
BaP	<3.8

GP-1	
COMPONENT	RESULT
BTEX	<18.5
GRO	<18.5
DRO	121.2
TPH	121.2
AROMATICS	54.7
16 EPA PAH's	<5.9
BaP	<0.74

GP-4	
COMPONENT	RESULT
BTEX	<0.2
GRO	<0.2
DRO	<0.2
TPH	0.1
AROMATICS	0.1
16 EPA PAH's	<0.06
BaP	<0.008

GP-3	
COMPONENT	RESULT
BTEX	<0.44
GRO	1.4
DRO	4.4
TPH	5.8
AROMATICS	3.4
16 EPA PAH's	<0.17
BaP	<0.018

GP-2	
COMPONENT	RESULT
BTEX	<0.53
GRO	<0.53
DRO	0.69
TPH	0.69
AROMATICS	0.48
16 EPA PAH's	<0.17
BaP	<0.021

EXPLANATION  
 = SOIL BORING  
 SB-1

\*NC DOT CONVENTIONAL  
 PLAN SHEET SYMBOLS  
 PAGE ATTACHED

GP-6	
COMPONENT	RESULT
BTEX	<1.2
GRO	9.4
DRO	75.4
TPH	84.8
AROMATICS	37.1
16 EPA PAH's	1.9
BaP	<0.049

GP-9	
COMPONENT	RESULT
BTEX	<0.5
GRO	2.4
DRO	15.9
TPH	18.3
AROMATICS	7.7
16 EPA PAH's	0.88
BaP	0.033

GP-12	
COMPONENT	RESULT
BTEX	<0.46
GRO	<0.46
DRO	28.3
TPH	28.3
AROMATICS	12.7
16 EPA PAH's	0.66
BaP	<0.019

GP-11	
COMPONENT	RESULT
BTEX	<0.49
GRO	<0.49
DRO	37.9
TPH	37.9
AROMATICS	18.2
16 EPA PAH's	2.1
BaP	0.065

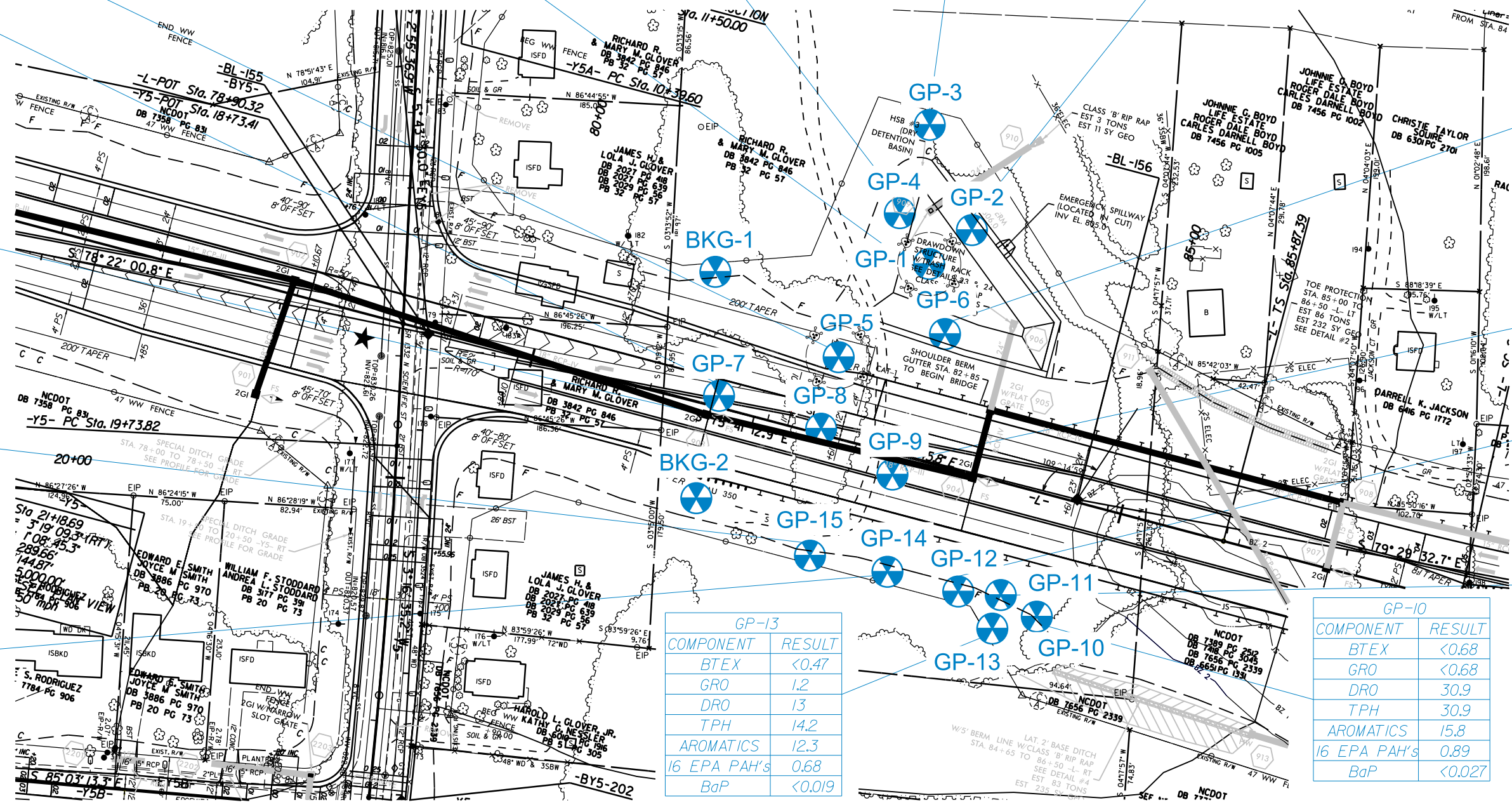
GP-8	
COMPONENT	RESULT
BTEX	<0.5
GRO	<0.5
DRO	14.3
TPH	14.3
AROMATICS	7.2
16 EPA PAH's	0.38
BaP	<0.02

GP-15	
COMPONENT	RESULT
BTEX	<0.46
GRO	0.72
DRO	1.3
TPH	2
AROMATICS	0.54
16 EPA PAH's	<0.15
BaP	<0.018

GP-14	
COMPONENT	RESULT
BTEX	<0.47
GRO	1.1
DRO	14.4
TPH	15.5
AROMATICS	13.9
16 EPA PAH's	0.78
BaP	<0.019

GP-13	
COMPONENT	RESULT
BTEX	<0.47
GRO	1.2
DRO	13
TPH	14.2
AROMATICS	12.3
16 EPA PAH's	0.68
BaP	<0.019

GP-10	
COMPONENT	RESULT
BTEX	<0.68
GRO	<0.68
DRO	30.9
TPH	30.9
AROMATICS	15.8
16 EPA PAH's	0.89
BaP	<0.027



REVISIONS

DATE

SCALE 1"=100'



REFERENCE:

SITE DATA PROVIDED  
 BY NC DOT  
 IN ELECTRONIC FORMAT



**FIGURE 5 - AREA OF IMPACTED SOIL  
 PARCEL NO. 062 - GLOVER PROPERTY  
 SR 4121 FROM PROP US 311 TO EAST 6 SR 1480  
 HIGH POINT, GUILFORD COUNTY  
 NORTH CAROLINA**

NC DOT PROJECT ID: U-2412A	DATE: 01/02/2018	WBS ELEMENT 34802.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49-5143

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Property Corner	-----
Property Monument	⊕
Parcel/Sequence Number	Ⓜ
Existing Fence Line	---x---x---
Proposed Woven Wire Fence	---o---o---
Proposed Chain Link Fence	---□---□---
Proposed Barbed Wire Fence	---◇---◇---
Existing Wetland Boundary	---w---w---
Proposed Wetland Boundary	---w---w---
Existing Endangered Animal Boundary	---a---a---
Existing Endangered Plant Boundary	---p---p---
Known Soil Contamination: Boundary or Site	---s---s---
Potential Soil Contamination: Boundary or Site	---s---s---

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or UG Tank Cap	⊙
Sign	Ⓜ
Well	Ⓜ
Small Mine	Ⓜ
Foundation	Ⓜ
Area Outline	Ⓜ
Cemetery	Ⓜ
Building	Ⓜ
School	Ⓜ
Church	Ⓜ
Dam	Ⓜ

**HYDROLOGY:**

Stream or Body of Water	-----
Hydro, Pool or Reservoir	Ⓜ
Jurisdictional Stream	---js---
Buffer Zone 1	---bz1---
Buffer Zone 2	---bz2---
Flow Arrow	----->
Disappearing Stream	----->
Spring	Ⓜ
Wetland	---w---
Proposed Lateral, Tail, Head Ditch	---l---
False Sump	Ⓜ

**RAILROADS:**

Standard Gauge	-----
RR Signal Milepost	Ⓜ
Switch	Ⓜ
RR Abandoned	-----
RR Dismantled	-----

**RIGHT OF WAY:**

Baseline Control Point	Ⓜ
Existing Right of Way Marker	Ⓜ
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	Ⓜ
Proposed Right of Way Line with Concrete or Granite Marker	Ⓜ
Existing Control of Access	Ⓜ
Proposed Control of Access	Ⓜ
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage / Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

**ROADS AND RELATED FEATURES:**

Proposed Permanent Easement with Iron Pin and Cap Marker	Ⓜ
Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	Ⓜ
Curb Cut Future Ramp	Ⓜ
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	Ⓜ
Pavement Removal	Ⓜ

**VEGETATION:**

Single Tree	Ⓜ
Single Shrub	Ⓜ
Hedge	-----
Woods Line	-----

Orchard	Ⓜ
Vineyard	Ⓜ

**EXISTING STRUCTURES:**

MAJOR:	
Bridge, Tunnel or Box Culvert	Ⓜ
Bridge Wing Wall, Head Wall and End Wall	Ⓜ
MINOR:	
Head and End Wall	Ⓜ
Pipe Culvert	Ⓜ
Footbridge	Ⓜ
Drainage Box: Catch Basin, DI or JB	Ⓜ
Paved Ditch Gutter	Ⓜ
Storm Sewer Manhole	Ⓜ
Storm Sewer	Ⓜ

**UTILITIES:**

POWER:	
Existing Power Pole	Ⓜ
Proposed Power Pole	Ⓜ
Existing Joint Use Pole	Ⓜ
Proposed Joint Use Pole	Ⓜ
Power Manhole	Ⓜ
Power Line Tower	Ⓜ
Power Transformer	Ⓜ
UG Power Cable Hand Hole	Ⓜ
H-Frame Pole	Ⓜ
Recorded UG Power Line	-----
Designated UG Power Line (S.U.E.*)	-----

**TELEPHONE:**

Existing Telephone Pole	Ⓜ
Proposed Telephone Pole	Ⓜ
Telephone Manhole	Ⓜ
Telephone Booth	Ⓜ
Telephone Pedestal	Ⓜ
Telephone Cell Tower	Ⓜ
UG Telephone Cable Hand Hole	Ⓜ
Recorded UG Telephone Cable	-----
Designated UG Telephone Cable (S.U.E.*)	-----
Recorded UG Telephone Conduit	-----
Designated UG Telephone Conduit (S.U.E.*)	-----
Recorded UG Fiber Optics Cable	-----
Designated UG Fiber Optics Cable (S.U.E.*)	-----

**WATER:**

Water Manhole	Ⓜ
Water Meter	Ⓜ
Water Valve	Ⓜ
Water Hydrant	Ⓜ
Recorded UG Water Line	-----
Designated UG Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

**TV:**

TV Satellite Dish	Ⓜ
TV Pedestal	Ⓜ
TV Tower	Ⓜ
UG TV Cable Hand Hole	Ⓜ
Recorded UG TV Cable	-----
Designated UG TV Cable (S.U.E.*)	-----
Recorded UG Fiber Optic Cable	-----
Designated UG Fiber Optic Cable (S.U.E.*)	-----

**GAS:**

Gas Valve	Ⓜ
Gas Meter	Ⓜ
Recorded UG Gas Line	-----
Designated UG Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

**SANITARY SEWER:**

Sanitary Sewer Manhole	Ⓜ
Sanitary Sewer Cleanout	Ⓜ
UG Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

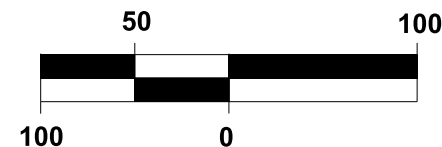
**MISCELLANEOUS:**

Utility Pole	Ⓜ
Utility Pole with Base	Ⓜ
Utility Located Object	Ⓜ
Utility Traffic Signal Box	Ⓜ
Utility Unknown UG Line	-----
UG Tank; Water, Gas, Oil	Ⓜ
Underground Storage Tank, Approx. Loc.	Ⓜ
A/G Tank; Water, Gas, Oil	Ⓜ
Geoenvironmental Boring	Ⓜ
UG Test Hole (S.U.E.*)	Ⓜ
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

REVISIONS

DATE

SCALE 1"=100'



REFERENCE:  
SITE DATA PROVIDED  
BY NC DOT  
IN ELECTRONIC FORMAT



FIGURE 6 - LEGEND

SR 4121 FROM PROP US 311 TO EAST 6 SR 1480  
HIGH POINT, GUILFORD COUNTY  
NORTH CAROLINA

NC DOT PROJECT ID: U-2412A	DATE: 01/02/2018	WBS ELEMENT 34802.1.1
DRAWN BY: JRF	CHECKED BY: JRF	ECS PROJECT NO.: 49-5143

# **APPENDIX A**



**Photograph No. 1**  
View of the site looking east of fill material



**Photograph No. 2**  
View looking south of buried debris.



**Photograph No. 3**  
View of typical piles of concrete, brick, and rock debris.



**Photograph No. 3**  
View of grading equipment and construction materials on site.



**Photograph No. 5**  
View of tanks (former USTs) located on the south side of the site.



**Photograph No. 6**  
View of impacted soil from leaking hydraulic line on excavation equipment.





**Photograph No. 7**  
Clearing and grubbing the site.



**Photograph No. 8**  
View of sampling adjacent to the tanks after clearing.



**Photograph No. 9**  
Tires and concrete pipe undercover.



**Photograph No. 10**  
View of clearing vegetation off of tanks.

## **APPENDIX B**

PROJECT: NCDOT - U2412A

BORING NUM. **GP-1**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
	286	GP-1			<b>ML-CL</b>	brown-gray clayey silt
10	150				<b>ML</b>	brown/gray silt
20						refusal at 11 feet
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-2**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0					<b>GM</b>	brown/tan rocky silt
6.8					<b>ML-CL</b>	gray clayey silt
10	263	GP-2			<b>ML-CL</b>	brown/gray clayey silt
	326					
12.6						
20						refusal at 18 feet
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-3**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
613		GP-3			ML-CL	brown/gray clayey silt
10	973					brown clayey silt
117						
20	478					refusal at 20 feet
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-4**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
	926	GP-4			<b>ML-CL</b>	brown clayey silt
	1,631				<b>ML</b>	brown/gray silt
	1,915					brown/red silt
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-5**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: DEPTH TO WATER:

Geoprobe

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
	605				<b>ML-CL</b>	brown clayey silt
10	1,378	GP-5			<b>GM</b>	brown/black rocky silt
	205					brown rocky silt
20						
30						
40						
50						
60						
70						



PROJECT: NCDOT - U2412A

BORING NUM. **GP-6**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG:

DEPTH TO WATER:

Geoprobe

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0					<b>ML Fill</b>	brown silt (fill)
39.3						
10	244				<b>GM</b>	brown rocky silt
2,176		GP-6				
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-7**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
	2.517	GP-7			<b>ML</b>	brown silt
	40.17				<b>GM</b>	white rocky silt
10						refusal at 9 feet
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-8**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
477					<b>ML-CL</b>	brown clayey silt
10	4,351	GP-8			<b>ML</b>	tan/brown silt
659						
20						
30						
40						
50						
60						
70						

**PROJECT: NCDOT - U2412A**

**BORING NUM. GP-9**

**CLIENT: NCDOT**

**PROJECT NO. 49-5143**



**LOCATION:**  
4104 & 4106 Pump Station Road, High Point, NC

**ELEVATION:**

**DRILLER:**  
3D Environmental Investigations

**DATE DRILLED:**  
9/26/17

**LOGGED BY:**  
Randy Cavallier

**DRILL RIG:**

**DEPTH TO WATER:**

**Geoprobe**

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
101						
10	3,186	GP-9			<b>ML-CL</b>	brown clayey silt gray clayey silt
1,563					<b>GM</b>	gray rocky silt (wet)
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-10**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						brown clayey silt
5.8						gray clayey silt (moist)
10	1,380	GP-10			ML-CL	
16.77	1,677					
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-11**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: DEPTH TO WATER:

Geoprobe

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0					<b>ML-CL</b>	brown clayey silt
89.5					<b>ML</b>	red/orange silt
10	2,153				<b>GM</b>	gray rocky silt
5,861		GP-11				
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-12**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
7.7		GP-12			<b>ML-CL</b>	brown clayey silt
212					<b>ML</b>	brown/red silt
795						<b>ML</b>
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-13**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						brown clayey silt
5.0						gray clayey silt
10	997	GP-13			ML-CL	
1,785						
20						
30						
40						
50						
60						
70						



PROJECT: NCDOT - U2412A

BORING NUM. **GP-14**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: Geoprobe

DEPTH TO WATER:

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
8.6		GP-14			<b>ML-CL</b>	brown clayey silt
10	452				<b>ML</b>	gray silt
19.81	981					
20						
30						
40						
50						
60						
70						

PROJECT: NCDOT - U2412A

BORING NUM. **GP-15**

CLIENT: NCDOT

PROJECT NO. 49-5143



LOCATION: 4104 & 4106 Pump Station Road, High Point, NC

ELEVATION:

DRILLER: 3D Environmental Investigations

DATE DRILLED: 9/26/17

LOGGED BY: Randy Cavallier

DRILL RIG: DEPTH TO WATER:

Geoprobe

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
253		GP-15			<b>ML-CL</b>	brown/gray clayey silt
10	932				<b>ML</b>	gray silt
580						
20						
30						
40						
50						
60						
70						

## **APPENDIX C**



### Hydrocarbon Analysis Results

**Client:** ECS  
**Address:** 4811 KOGER BLVD  
 GREENSBORO, NC 27407

**Samples taken** Tuesday, September 26, 2017  
**Samples extracted** Tuesday, September 26, 2017  
**Samples analysed** Thursday, September 28, 2017

**Contact:** RANDY CAVALLIER

**Operator** BRUZZDZINSKI

**Project:** NCDOT-14P. NCDOT U-2412A. ELEMENT 34802.1.1

U00904

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	GP-1	740.0	<18.5	<18.5	121.2	121.2	54.7	<5.9	<0.74	0	76.4	23.6	Pyrogenic HC 72.5%,(FCM)
s	GP-2	21.3	<0.53	<0.53	0.69	0.69	0.48	<0.17	<0.021	0	68	32	V.Deg.PHC 76.7%,(FCM),(P)
s	GP-3	17.7	<0.44	1.4	4.4	5.8	3.4	<0.14	<0.018	52.7	42.4	4.9	Deg.Fuel 84.1%,(FCM)
s	GP-4	8.1	<0.2	<0.2	<0.2	0.1	0.1	<0.06	<0.008	0	60.3	39.7	Residual HC,(BO)
s	GP-5	3761.0	<94	424.2	964.8	1389	668.6	37.6	<3.8	50.5	43.8	5.7	Deg Fuel 91.2%,(FCM)
s	GP-6	49.0	<1.2	9.4	75.4	84.8	37.1	1.9	<0.049	24.2	61	14.7	Deg.PHC 79%,(FCM)
s	GP-7	53.8	<1.3	<1.3	85.4	85.4	42.3	4.5	0.11	0	88	12	Road Tar 82.6%,(FCM)
s	GP-8	20.0	<0.5	<0.5	14.3	14.3	7.2	0.38	<0.02	0	80.6	19.4	Deg.PHC 80.4%,(FCM)
s	GP-9	20.2	<0.5	2.4	15.9	18.3	7.7	0.88	0.033	27.2	61.7	11.2	Road Tar 92.5%,(FCM),(BO)
s	GP-10	27.4	<0.68	<0.68	30.9	30.9	15.8	0.89	<0.027	0	90.8	9.2	Deg.PHC 77.6%,(FCM)

Initial Calibrator QC check **OK**

Final FCM QC Check **OK**

100.5 %

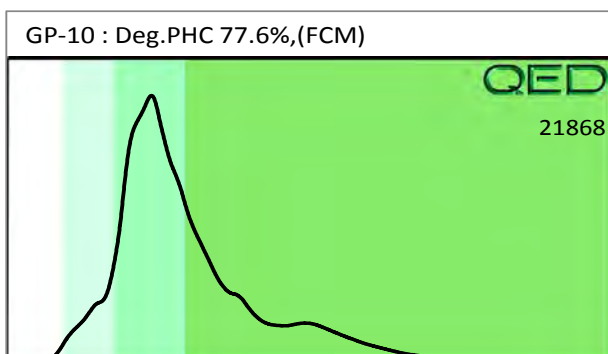
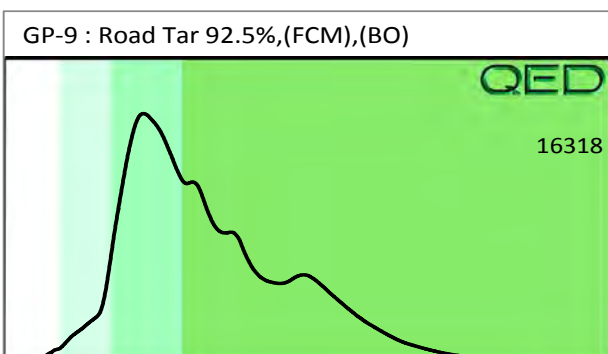
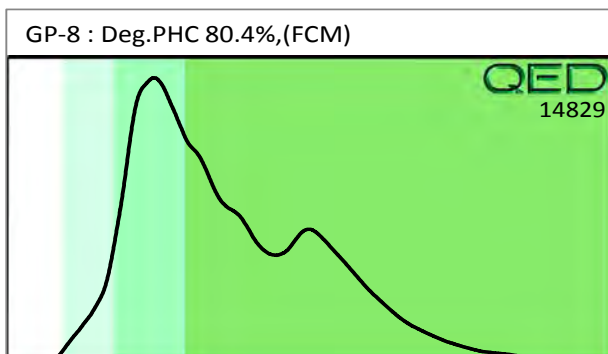
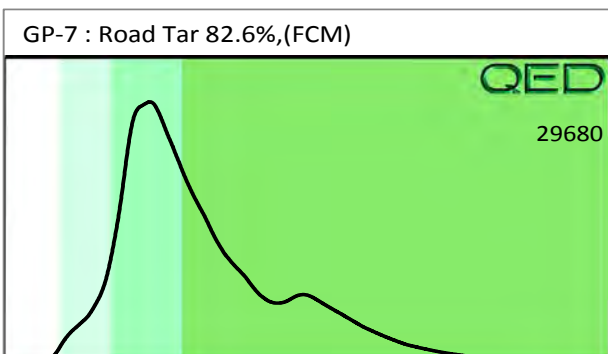
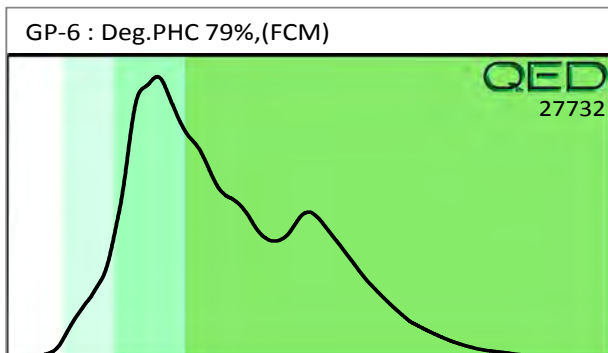
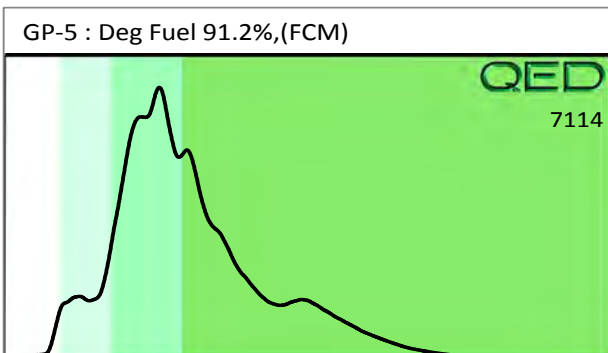
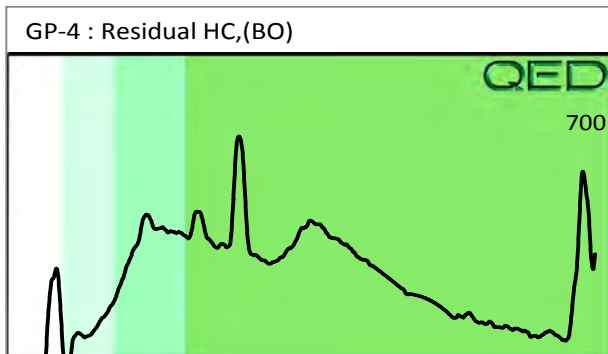
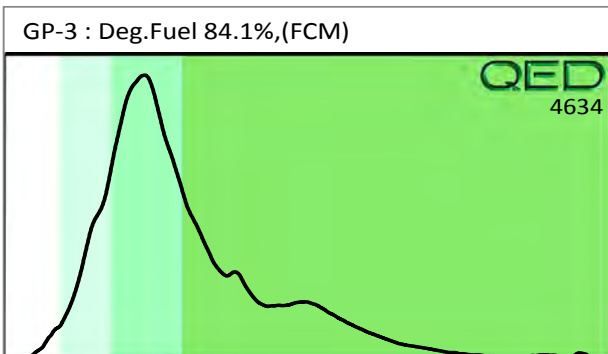
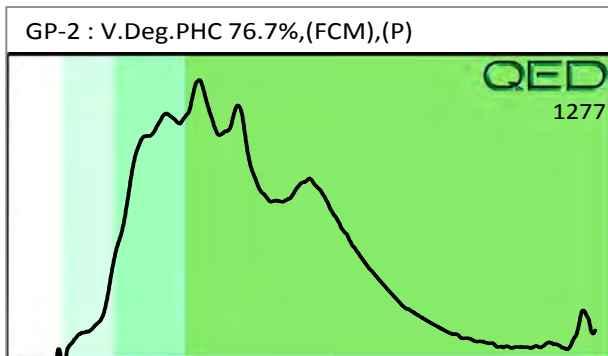
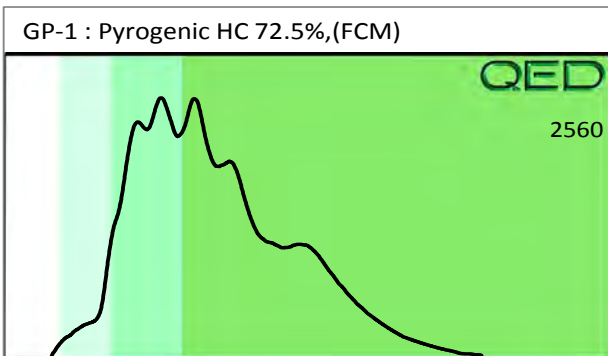
Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.

Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected

B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.

% Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only.

**Data generated by HC-1 Analyser**





### Hydrocarbon Analysis Results

**Client:** ECS  
**Address:** 4811 KOGER BLVD  
 GREENSBORO, NC 27407

**Samples taken** Tuesday, September 26, 2017  
**Samples extracted** Tuesday, September 26, 2017  
**Samples analysed** Thursday, September 28, 2017

**Contact:** RANDY CAVALLIER

**Operator** BRUZDZINSKI

**Project:** NCDOT-14P. NCDOT U-2412A. ELEMENT 34802.1.1

U00904

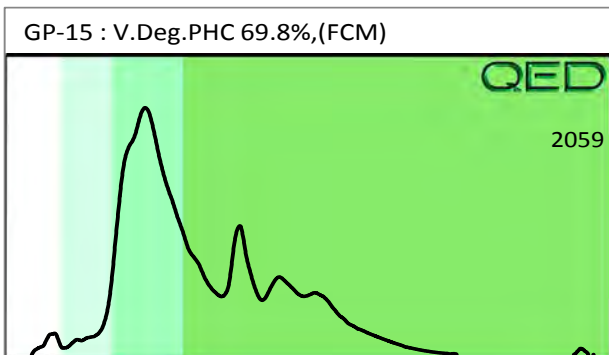
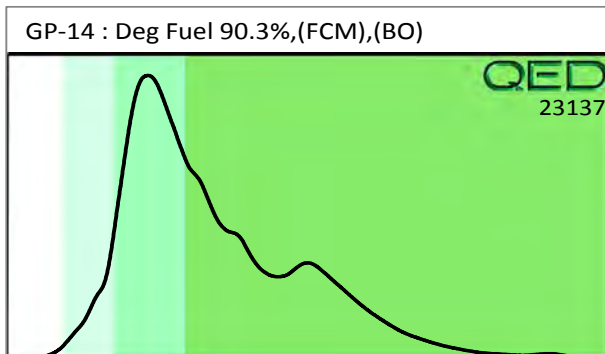
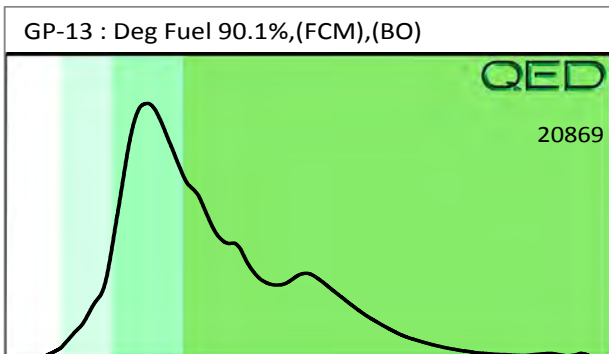
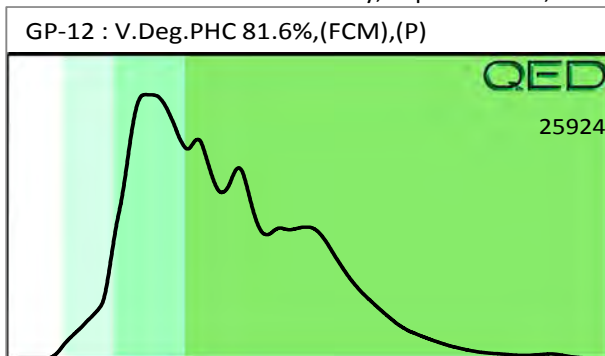
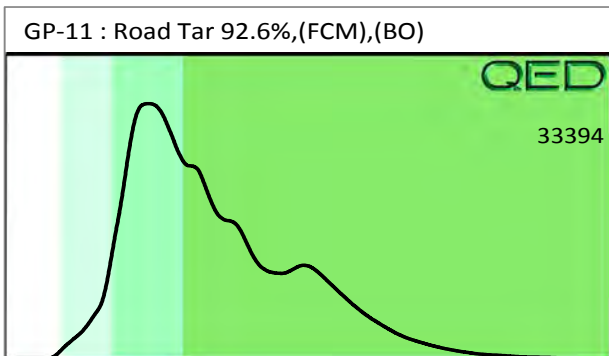
Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	GP-11	19.7	<0.49	<0.49	37.9	37.9	18.2	2.1	0.065	0	85.6	14.4	Road Tar 92.6%,(FCM),(BO)
s	GP-12	18.6	<0.46	<0.46	28.3	28.3	12.7	0.66	<0.019	0	81.7	18.3	V.Deg.PHC 81.6%,(FCM),(P)
s	GP-13	18.8	<0.47	1.2	13	14.2	12.3	0.68	<0.019	13	74.5	12.5	Deg Fuel 90.1%,(FCM),(BO)
s	GP-14	18.8	<0.47	1.1	14.4	15.5	13.9	0.78	<0.019	11.1	76.5	12.4	Deg Fuel 90.3%,(FCM),(BO)
s	GP-15	18.3	<0.46	0.72	1.3	2	0.54	<0.15	<0.018	57.4	37.7	4.9	V.Deg.PHC 69.8%,(FCM)

Initial Calibrator QC check **OK**


Final FCM QC Check **OK**

93.9 %

Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.  
 Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected  
 B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.  
 % Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only. **Data generated by HC-1 Analyser**



1 of 2 Projects in Cooler

Client Name:	ECS	 <b>REDLAB</b> <sup>TM</sup> RAPID ENVIRONMENTAL DIAGNOSTICS <b>CHAIN OF CUSTODY AND ANALYTICAL          REQUEST FORM</b>	RED Lab, LLC 5598 Marvin K Moss Lane MARBIONC Bldg, Suite 2003 Wilmington, NC 28409
Address:	4811 Kogin Blvd Greensboro NC 27407		Each sample will be analyzed for BTEX, GRO, DRO, TPH, PAH total aromatics and BaP
Contact:	Randy Cavalieri		
Project Ref.:	NC DOT - HP		
Email:	rcavalieri@ecslab.com		
Phone #:	336 856-7150		
Collected by:	Randy Cavalieri		

Sample Collection Date/Time	TAT Requested		Matrix (S/W)	Sample ID	UVF	GC BTEX	Total Wt.	Tare Wt.	Sample Wt.
	24 Hour	48 Hour							
9/25/17 955		✓		GP-1	✓		59.5	45.1	14.4
1015		✓		GP-2	✓		56.6	44.4	12.2
1030		✓		GP-3	✓		59.6	44.9	14.7
1108		✓		GP-4	✓		57.7	45.3	12.4
<del>1115</del>		✓		<del>BG-1</del>	<del>✓</del>		<del>58.8</del>	<del>45.5</del>	<del>13.3</del>
1133		✓		GP-5	✓		60.0	45.7	14.3
1155		✓		GP-6	✓		57.9	44.9	13.0
1215		✓		GP-7	✓		57.9	44.9	13.0
<del>1225</del>		✓		<del>BG-2</del>	<del>✓</del>		<del>58.1</del>	<del>45.2</del>	<del>12.9</del>
1240		✓		GP-8	✓		54.9	45.4	9.5
1255		✓		GP-9	✓		58.0	44.8	13.2
1314		✓		GP-10	✓		57.8	43.8	14.0
1335		✓		GP-11	✓		59.1	45.3	13.8
1405		✓		GP-12	✓		58.6	44.8	13.8
1428		✓		GP-13	✓		58.8	44.6	14.2
1530		✓		GP-14	✓				
1615		✓		GP-15	✓				

Comments: NC DOT U-2412A and Element 34802.1.1 on all Reports & Invoices

RED Lab USE ONLY

Relinquished by	Date/Time	Accepted by	Date/Time
<i>[Signature]</i>	9/29/17 1700	<i>[Signature]</i>	9-28-17 1400
Relinquished by	Date/Time	Accepted by	Date/Time

15



ECS Carolinas, LLP (Greensboro)  
Randy Cavallier  
4811 Koger Blvd.  
Greensboro, NC 27407

Project: NCDOT Highpoint Pump Station U-2412A  
Project No.: WBS # 34802.1.1  
Lab Submittal Date: 09/29/2017  
Prism Work Order: 7100008

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 Angela D. Overcash  
VP Laboratory Services

**Data Qualifiers Key Reference:**

- A Sample diluted due to interference from high iron concentration.
- D RPD value outside of the control limits.
- E Estimated concentration above the calibration range
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- L2 LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
- M Matrix spike outside of the control limits.
- 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.

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
GP-1	7100008-01	Solid	09/26/17	09/29/17
GP-2	7100008-02	Solid	09/26/17	09/29/17
GP-3	7100008-03	Solid	09/26/17	09/29/17
GP-4	7100008-04	Solid	09/26/17	09/29/17
BG-1	7100008-05	Solid	09/26/17	09/29/17
GP-5	7100008-06	Solid	09/26/17	09/29/17
GP-6	7100008-07	Solid	09/26/17	09/29/17
GP-7	7100008-08	Solid	09/26/17	09/29/17
BG-2	7100008-09	Solid	09/26/17	09/29/17
GP-8	7100008-10	Solid	09/26/17	09/29/17
GP-9	7100008-11	Solid	09/26/17	09/29/17
GP-10	7100008-12	Solid	09/26/17	09/29/17
GP-11	7100008-13	Solid	09/26/17	09/29/17
GP-12	7100008-14	Solid	09/26/17	09/29/17
GP-13	7100008-15	Solid	09/26/17	09/29/17
GP-14	7100008-16	Solid	09/26/17	09/29/17
GP-15	7100008-17	Solid	09/26/17	09/29/17

Samples were received in good condition at 2.5 degrees C unless otherwise noted.



# Summary of Detections

10/11/2017

Prism Work Order: 7100008

Prism ID	Client ID	Parameter	Method	Result	Units
7100008-01	GP-1	Arsenic	*6010D	1.8	mg/kg dry
7100008-01	GP-1	Barium	*6010D	120	mg/kg dry
7100008-01	GP-1	Chromium	*6010D	73	mg/kg dry
7100008-01	GP-1	Lead	*6010D	6.3	mg/kg dry
7100008-01	GP-1	Acetone	8260B	0.068	mg/kg dry
7100008-02	GP-2	Barium	*6010D	410	mg/kg dry
7100008-02	GP-2	Chromium	*6010D	41	mg/kg dry
7100008-02	GP-2	Lead	*6010D	2.4	mg/kg dry
7100008-03	GP-3	Arsenic	*6010D	1.1	mg/kg dry
7100008-03	GP-3	Barium	*6010D	69	mg/kg dry
7100008-03	GP-3	Chromium	*6010D	23	mg/kg dry
7100008-03	GP-3	Lead	*6010D	10	mg/kg dry
7100008-03	GP-3	Acetone	8260B	0.077	mg/kg dry
7100008-04	GP-4	Arsenic	*6010D	0.50	mg/kg dry
7100008-04	GP-4	Barium	*6010D	81	mg/kg dry
7100008-04	GP-4	Chromium	*6010D	150	mg/kg dry
7100008-04	GP-4	Lead	*6010D	2.9	mg/kg dry
7100008-05	BG-1	Mercury	*7471B	0.049	mg/kg dry
7100008-05	BG-1	Arsenic	*6010D	1.7	mg/kg dry
7100008-05	BG-1	Barium	*6010D	92	mg/kg dry
7100008-05	BG-1	Chromium	*6010D	81	mg/kg dry
7100008-05	BG-1	Lead	*6010D	22	mg/kg dry
7100008-06	GP-5	Arsenic	*6010D	0.46	mg/kg dry
7100008-06	GP-5	Barium	*6010D	160	mg/kg dry
7100008-06	GP-5	Chromium	*6010D	17	mg/kg dry
7100008-06	GP-5	Lead	*6010D	3.1	mg/kg dry
7100008-06	GP-5	Acetone	8260B	0.13	mg/kg dry
7100008-06	GP-5	Naphthalene	8260B	0.019	mg/kg dry
7100008-07	GP-6	Arsenic	*6010D	13	A mg/kg dry
7100008-07	GP-6	Barium	*6010D	53	mg/kg dry
7100008-07	GP-6	Chromium	*6010D	140	A mg/kg dry
7100008-07	GP-6	Lead	*6010D	11	A mg/kg dry
7100008-07	GP-6	Acetone	8260B	0.14	mg/kg dry
7100008-08	GP-7	Arsenic	*6010D	0.47	mg/kg dry
7100008-08	GP-7	Barium	*6010D	73	mg/kg dry
7100008-08	GP-7	Chromium	*6010D	14	mg/kg dry
7100008-08	GP-7	Lead	*6010D	2.4	mg/kg dry
7100008-08	GP-7	Acetone	8260B	0.079	mg/kg dry
7100008-08	GP-7	Methylene Chloride	8260B	0.0038	J mg/kg dry
7100008-09	BG-2	Arsenic	*6010D	0.41	mg/kg dry
7100008-09	BG-2	Barium	*6010D	110	mg/kg dry
7100008-09	BG-2	Chromium	*6010D	130	E mg/kg dry
7100008-09	BG-2	Lead	*6010D	2.6	mg/kg dry
7100008-10	GP-8	Arsenic	*6010D	1.7	mg/kg dry

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Prism ID	Client ID	Parameter	Method	Result	Units
7100008-10	GP-8	Barium	*6010D	84	mg/kg dry
7100008-10	GP-8	Chromium	*6010D	39	mg/kg dry
7100008-10	GP-8	Lead	*6010D	5.3	mg/kg dry
7100008-10	GP-8	Acetone	8260B	0.14	mg/kg dry
7100008-11	GP-9	Mercury	*7471B	0.026	mg/kg dry
7100008-11	GP-9	Arsenic	*6010D	1.7	mg/kg dry
7100008-11	GP-9	Barium	*6010D	88	mg/kg dry
7100008-11	GP-9	Chromium	*6010D	64	mg/kg dry
7100008-11	GP-9	Lead	*6010D	8.5	mg/kg dry
7100008-11	GP-9	Acetone	8260B	0.056	mg/kg dry
7100008-12	GP-10	Mercury	*7471B	0.37	mg/kg dry
7100008-12	GP-10	Arsenic	*6010D	6.9	mg/kg dry
7100008-12	GP-10	Barium	*6010D	110	mg/kg dry
7100008-12	GP-10	Chromium	*6010D	93	mg/kg dry
7100008-12	GP-10	Lead	*6010D	77	mg/kg dry
7100008-12	GP-10	Acetone	8260B	0.047	J mg/kg dry
7100008-13	GP-11	Arsenic	*6010D	4.6	mg/kg dry
7100008-13	GP-11	Barium	*6010D	68	mg/kg dry
7100008-13	GP-11	Chromium	*6010D	18	mg/kg dry
7100008-13	GP-11	Lead	*6010D	27	mg/kg dry
7100008-13	GP-11	Acetone	8260B	0.10	mg/kg dry
7100008-14	GP-12	Mercury	*7471B	0.055	mg/kg dry
7100008-14	GP-12	Arsenic	*6010D	3.0	mg/kg dry
7100008-14	GP-12	Barium	*6010D	43	mg/kg dry
7100008-14	GP-12	Chromium	*6010D	43	mg/kg dry
7100008-14	GP-12	Lead	*6010D	29	mg/kg dry
7100008-14	GP-12	Acetone	8260B	0.12	mg/kg dry
7100008-14	GP-12	Chloromethane	8260B	0.014	mg/kg dry
7100008-15	GP-13	Mercury	*7471B	0.026	mg/kg dry
7100008-15	GP-13	Arsenic	*6010D	1.0	mg/kg dry
7100008-15	GP-13	Barium	*6010D	57	mg/kg dry
7100008-15	GP-13	Chromium	*6010D	39	mg/kg dry
7100008-15	GP-13	Lead	*6010D	5.9	mg/kg dry
7100008-15	GP-13	Acetone	8260B	0.033	J mg/kg dry
7100008-16	GP-14	Mercury	*7471B	0.055	mg/kg dry
7100008-16	GP-14	Arsenic	*6010D	2.3	mg/kg dry
7100008-16	GP-14	Barium	*6010D	95	mg/kg dry
7100008-16	GP-14	Chromium	*6010D	48	mg/kg dry
7100008-16	GP-14	Lead	*6010D	27	mg/kg dry
7100008-16	GP-14	Acetone	8260B	0.086	mg/kg dry
7100008-17	GP-15	Arsenic	*6010D	3.2	mg/kg dry
7100008-17	GP-15	Barium	*6010D	62	mg/kg dry
7100008-17	GP-15	Chromium	*6010D	210	mg/kg dry
7100008-17	GP-15	Lead	*6010D	12	mg/kg dry
7100008-17	GP-15	Acetone	8260B	0.039	J mg/kg dry

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**449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543**  
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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-1  
 Prism Sample ID: 7100008-01  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 09:55  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	79.8	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.024	0.0022	1	*7471B	10/6/17 12:17	JAB	P7J0098
<b>Arsenic</b>	<b>1.8</b>	<b>mg/kg dry</b>	<b>0.26</b>	<b>0.031</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 18:09</b>	<b>JAB</b>	<b>P7J0025</b>
<b>Barium</b>	<b>120</b>	<b>mg/kg dry</b>	<b>0.51</b>	<b>0.075</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 18:09</b>	<b>JAB</b>	<b>P7J0025</b>
Cadmium	BRL	mg/kg dry	0.26	0.0069	1	*6010D	10/4/17 18:09	JAB	P7J0025
<b>Chromium</b>	<b>73</b>	<b>mg/kg dry</b>	<b>0.26</b>	<b>0.043</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 18:09</b>	<b>JAB</b>	<b>P7J0025</b>
<b>Lead</b>	<b>6.3</b>	<b>mg/kg dry</b>	<b>0.26</b>	<b>0.048</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 18:09</b>	<b>JAB</b>	<b>P7J0025</b>
Selenium	BRL	mg/kg dry	0.51	0.12	1	*6010D	10/4/17 18:09	JAB	P7J0025
Silver	BRL	mg/kg dry	0.26	0.0064	1	*6010D	10/4/17 18:09	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00038	1	8260B	10/5/17 15:29	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00031	1	8260B	10/5/17 15:29	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0046	0.00041	1	8260B	10/5/17 15:29	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0046	0.00013	1	8260B	10/5/17 15:29	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00020	1	8260B	10/5/17 15:29	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00025	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.00026	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0046	0.00059	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.00034	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.00035	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 15:29	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00029	1	8260B	10/5/17 15:29	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.00035	1	8260B	10/5/17 15:29	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00031	1	8260B	10/5/17 15:29	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0046	0.00023	1	8260B	10/5/17 15:29	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00018	1	8260B	10/5/17 15:29	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 15:29	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 15:29	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
<b>Acetone</b>	<b>0.068</b>	<b>mg/kg dry</b>	<b>0.046</b>	<b>0.0011</b>	<b>1</b>	<b>8260B</b>	<b>10/5/17 15:29</b>	<b>ANG</b>	<b>P7J0085</b>
Benzene	BRL	mg/kg dry	0.0028	0.00027	1	8260B	10/5/17 15:29	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0046	0.00039	1	8260B	10/5/17 15:29	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0046	0.00025	1	8260B	10/5/17 15:29	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0046	0.00026	1	8260B	10/5/17 15:29	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0046	0.00053	1	8260B	10/5/17 15:29	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0092	0.00057	1	8260B	10/5/17 15:29	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-1  
 Prism Sample ID: 7100008-01  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 09:55  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0046	0.00023	1	8260B	10/5/17 15:29	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 15:29	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0092	0.00039	1	8260B	10/5/17 15:29	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0046	0.00033	1	8260B	10/5/17 15:29	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0046	0.00031	1	8260B	10/5/17 15:29	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00020	1	8260B	10/5/17 15:29	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00016	1	8260B	10/5/17 15:29	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 15:29	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0046	0.00021	1	8260B	10/5/17 15:29	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0046	0.00018	1	8260B	10/5/17 15:29	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 15:29	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0046	0.00027	1	8260B	10/5/17 15:29	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0092	0.00043	1	8260B	10/5/17 15:29	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.046	0.00042	1	8260B	10/5/17 15:29	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.092	0.00042	1	8260B	10/5/17 15:29	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.046	0.00039	1	8260B	10/5/17 15:29	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0092	0.00026	1	8260B	10/5/17 15:29	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0092	0.00015	1	8260B	10/5/17 15:29	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0092	0.00015	1	8260B	10/5/17 15:29	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 15:29	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0046	0.00027	1	8260B	10/5/17 15:29	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 15:29	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 15:29	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0046	0.00016	1	8260B	10/5/17 15:29	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0046	0.00027	1	8260B	10/5/17 15:29	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 15:29	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 15:29	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0046	0.00030	1	8260B	10/5/17 15:29	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0046	0.00030	1	8260B	10/5/17 15:29	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.023	0.00063	1	8260B	10/5/17 15:29	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 15:29	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.014	0.00087	1	8260B	10/5/17 15:29	ANG	P7J0085
						Surrogate	Recovery	Control Limits	
						4-Bromofluorobenzene	106 %	70-130	
						Dibromofluoromethane	102 %	84-123	
						Toluene-d8	116 %	76-129	

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-2  
 Prism Sample ID: 7100008-02  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 10:15  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	74.4	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.027	0.0026	1	*7471B	10/6/17 12:22	JAB	P7J0098
Arsenic	BRL	mg/kg dry	0.29	0.035	1	*6010D	10/4/17 18:17	JAB	P7J0025
<b>Barium</b>	<b>410</b>	<b>mg/kg dry</b>	<b>5.8</b>	<b>0.85</b>	<b>10</b>	<b>*6010D</b>	<b>10/4/17 13:56</b>	<b>JAB</b>	<b>P7J0025</b>
Cadmium	BRL	mg/kg dry	0.29	0.0078	1	*6010D	10/4/17 18:17	JAB	P7J0025
<b>Chromium</b>	<b>41</b>	<b>mg/kg dry</b>	<b>0.29</b>	<b>0.049</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 18:17</b>	<b>JAB</b>	<b>P7J0025</b>
<b>Lead</b>	<b>2.4</b>	<b>mg/kg dry</b>	<b>0.29</b>	<b>0.054</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 18:17</b>	<b>JAB</b>	<b>P7J0025</b>
Selenium	BRL	mg/kg dry	0.58	0.14	1	*6010D	10/4/17 18:17	JAB	P7J0025
Silver	BRL	mg/kg dry	0.29	0.0072	1	*6010D	10/4/17 18:17	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0047	0.00039	1	8260B	10/5/17 15:57	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 15:57	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0047	0.00032	1	8260B	10/5/17 15:57	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0047	0.00042	1	8260B	10/5/17 15:57	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0047	0.00013	1	8260B	10/5/17 15:57	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00021	1	8260B	10/5/17 15:57	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00026	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0047	0.00027	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0047	0.00060	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0047	0.00035	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0047	0.00036	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 15:57	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0047	0.00029	1	8260B	10/5/17 15:57	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0047	0.00036	1	8260B	10/5/17 15:57	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00031	1	8260B	10/5/17 15:57	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 15:57	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 15:57	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0047	0.00022	1	8260B	10/5/17 15:57	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 15:57	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 15:57	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 15:57	ANG	P7J0085
Acetone	BRL	mg/kg dry	0.047	0.0012	1	8260B	10/5/17 15:57	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0028	0.00027	1	8260B	10/5/17 15:57	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0047	0.00039	1	8260B	10/5/17 15:57	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0047	0.00026	1	8260B	10/5/17 15:57	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0047	0.00026	1	8260B	10/5/17 15:57	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0047	0.00054	1	8260B	10/5/17 15:57	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0094	0.00058	1	8260B	10/5/17 15:57	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-2  
 Prism Sample ID: 7100008-02  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 10:15  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 15:57	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0047	0.00025	1	8260B	10/5/17 15:57	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0094	0.00039	1	8260B	10/5/17 15:57	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0047	0.00034	1	8260B	10/5/17 15:57	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0047	0.00032	1	8260B	10/5/17 15:57	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00020	1	8260B	10/5/17 15:57	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00016	1	8260B	10/5/17 15:57	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 15:57	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0047	0.00021	1	8260B	10/5/17 15:57	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0047	0.00018	1	8260B	10/5/17 15:57	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 15:57	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 15:57	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0094	0.00044	1	8260B	10/5/17 15:57	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.047	0.00043	1	8260B	10/5/17 15:57	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.094	0.00043	1	8260B	10/5/17 15:57	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.047	0.00040	1	8260B	10/5/17 15:57	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0094	0.00027	1	8260B	10/5/17 15:57	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0094	0.00015	1	8260B	10/5/17 15:57	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0094	0.00015	1	8260B	10/5/17 15:57	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 15:57	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 15:57	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 15:57	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 15:57	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 15:57	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0047	0.00016	1	8260B	10/5/17 15:57	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	10/5/17 15:57	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0047	0.00027	1	8260B	10/5/17 15:57	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 15:57	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00025	1	8260B	10/5/17 15:57	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0047	0.00031	1	8260B	10/5/17 15:57	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0047	0.00030	1	8260B	10/5/17 15:57	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.024	0.00065	1	8260B	10/5/17 15:57	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 15:57	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.014	0.00088	1	8260B	10/5/17 15:57	ANG	P7J0085
			Surrogate			Recovery		Control Limits	
			4-Bromofluorobenzene			102 %		70-130	
			Dibromofluoromethane			102 %		84-123	
			Toluene-d8			115 %		76-129	

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-3  
 Prism Sample ID: 7100008-03  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 10:30  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	78.9	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.023	0.0022	1	*7471B	10/6/17 12:26	JAB	P7J0098
Arsenic	1.1	mg/kg dry	0.27	0.033	1	*6010D	10/4/17 18:26	JAB	P7J0025
Barium	69	mg/kg dry	0.54	0.079	1	*6010D	10/4/17 18:26	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.27	0.0072	1	*6010D	10/4/17 18:26	JAB	P7J0025
Chromium	23	mg/kg dry	0.27	0.045	1	*6010D	10/4/17 18:26	JAB	P7J0025
Lead	10	mg/kg dry	0.27	0.050	1	*6010D	10/4/17 18:26	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.54	0.13	1	*6010D	10/4/17 18:26	JAB	P7J0025
Silver	BRL	mg/kg dry	0.27	0.0067	1	*6010D	10/4/17 18:26	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00035	1	8260B	10/5/17 16:24	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00029	1	8260B	10/5/17 16:24	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0043	0.00038	1	8260B	10/5/17 16:24	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0043	0.00012	1	8260B	10/5/17 16:24	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00019	1	8260B	10/5/17 16:24	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00024	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0043	0.00024	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0043	0.00055	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0043	0.00032	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0043	0.00033	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0043	0.00017	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00020	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0043	0.00026	1	8260B	10/5/17 16:24	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00027	1	8260B	10/5/17 16:24	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0043	0.00033	1	8260B	10/5/17 16:24	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00029	1	8260B	10/5/17 16:24	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0043	0.00022	1	8260B	10/5/17 16:24	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00017	1	8260B	10/5/17 16:24	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0043	0.00022	1	8260B	10/5/17 16:24	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	10/5/17 16:24	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
Acetone	0.077	mg/kg dry	0.043	0.0011	1	8260B	10/5/17 16:24	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0026	0.00025	1	8260B	10/5/17 16:24	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0043	0.00036	1	8260B	10/5/17 16:24	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0043	0.00024	1	8260B	10/5/17 16:24	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0043	0.00024	1	8260B	10/5/17 16:24	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0043	0.00049	1	8260B	10/5/17 16:24	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0086	0.00053	1	8260B	10/5/17 16:24	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-3  
 Prism Sample ID: 7100008-03  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 10:30  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0043	0.00023	1	8260B	10/5/17 16:24	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0086	0.00036	1	8260B	10/5/17 16:24	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0043	0.00031	1	8260B	10/5/17 16:24	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0043	0.00029	1	8260B	10/5/17 16:24	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00018	1	8260B	10/5/17 16:24	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00014	1	8260B	10/5/17 16:24	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0043	0.00018	1	8260B	10/5/17 16:24	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0043	0.00020	1	8260B	10/5/17 16:24	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00017	1	8260B	10/5/17 16:24	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0043	0.00018	1	8260B	10/5/17 16:24	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0043	0.00026	1	8260B	10/5/17 16:24	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0086	0.00040	1	8260B	10/5/17 16:24	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.043	0.00039	1	8260B	10/5/17 16:24	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.086	0.00039	1	8260B	10/5/17 16:24	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.043	0.00037	1	8260B	10/5/17 16:24	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0086	0.00024	1	8260B	10/5/17 16:24	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0086	0.00014	1	8260B	10/5/17 16:24	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0086	0.00014	1	8260B	10/5/17 16:24	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0043	0.00022	1	8260B	10/5/17 16:24	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	10/5/17 16:24	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0043	0.00018	1	8260B	10/5/17 16:24	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	10/5/17 16:24	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0043	0.00015	1	8260B	10/5/17 16:24	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0043	0.00025	1	8260B	10/5/17 16:24	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	10/5/17 16:24	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00023	1	8260B	10/5/17 16:24	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0043	0.00028	1	8260B	10/5/17 16:24	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0043	0.00028	1	8260B	10/5/17 16:24	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.022	0.00059	1	8260B	10/5/17 16:24	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0043	0.00021	1	8260B	10/5/17 16:24	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.013	0.00081	1	8260B	10/5/17 16:24	ANG	P7J0085
						Surrogate	Recovery	Control Limits	
						4-Bromofluorobenzene	103 %	70-130	
						Dibromofluoromethane	102 %	84-123	
						Toluene-d8	117 %	76-129	

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ECS Carolinas, LLP (Greensboro)  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-4  
 Prism Sample ID: 7100008-04  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 11:08  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	73.8	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.027	0.0025	1	*7471B	10/6/17 12:31	JAB	P7J0098
Arsenic	0.50	mg/kg dry	0.33	0.040	1	*6010D	10/4/17 18:34	JAB	P7J0025
Barium	81	mg/kg dry	0.66	0.096	1	*6010D	10/4/17 18:34	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.33	0.0088	1	*6010D	10/4/17 18:34	JAB	P7J0025
Chromium	150	mg/kg dry	0.33	0.055	1	*6010D	10/4/17 18:34	JAB	P7J0025
Lead	2.9	mg/kg dry	0.33	0.061	1	*6010D	10/4/17 18:34	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.66	0.16	1	*6010D	10/4/17 18:34	JAB	P7J0025
Silver	BRL	mg/kg dry	0.33	0.0082	1	*6010D	10/4/17 18:34	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B	10/5/17 16:52	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 16:52	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	10/5/17 16:52	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00049	1	8260B	10/5/17 16:52	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00015	1	8260B	10/5/17 16:52	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00024	1	8260B	10/5/17 16:52	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00030	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00070	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00022	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 16:52	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00034	1	8260B	10/5/17 16:52	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	10/5/17 16:52	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	10/5/17 16:52	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00028	1	8260B	10/5/17 16:52	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	10/5/17 16:52	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	10/5/17 16:52	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	10/5/17 16:52	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 16:52	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 16:52	ANG	P7J0085
Acetone	BRL	mg/kg dry	0.055	0.0013	1	8260B	10/5/17 16:52	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0033	0.00032	1	8260B	10/5/17 16:52	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0055	0.00046	1	8260B	10/5/17 16:52	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00030	1	8260B	10/5/17 16:52	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00031	1	8260B	10/5/17 16:52	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0055	0.00063	1	8260B	10/5/17 16:52	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.011	0.00068	1	8260B	10/5/17 16:52	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-4  
 Prism Sample ID: 7100008-04  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 11:08  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 16:52	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	10/5/17 16:52	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.011	0.00046	1	8260B	10/5/17 16:52	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0055	0.00040	1	8260B	10/5/17 16:52	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	10/5/17 16:52	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 16:52	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	10/5/17 16:52	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 16:52	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B	10/5/17 16:52	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00021	1	8260B	10/5/17 16:52	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00022	1	8260B	10/5/17 16:52	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 16:52	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00051	1	8260B	10/5/17 16:52	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.00050	1	8260B	10/5/17 16:52	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00050	1	8260B	10/5/17 16:52	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.055	0.00047	1	8260B	10/5/17 16:52	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.011	0.00031	1	8260B	10/5/17 16:52	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	10/5/17 16:52	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	10/5/17 16:52	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	10/5/17 16:52	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 16:52	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 16:52	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 16:52	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 16:52	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	10/5/17 16:52	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	10/5/17 16:52	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0055	0.00032	1	8260B	10/5/17 16:52	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 16:52	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	10/5/17 16:52	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	10/5/17 16:52	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00036	1	8260B	10/5/17 16:52	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.028	0.00075	1	8260B	10/5/17 16:52	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 16:52	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.017	0.0010	1	8260B	10/5/17 16:52	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	105 %	70-130
Dibromofluoromethane	102 %	84-123
Toluene-d8	115 %	76-129

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ECS Carolinas, LLP (Greensboro)  
Attn: Randy Cavallier  
4811 Koger Blvd.  
Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
Station U-2412A  
Project No.: WBS # 34802.1.1  
Sample Matrix: Solid

Client Sample ID: BG-1  
Prism Sample ID: 7100008-05  
Prism Work Order: 7100008  
Time Collected: 09/26/17 11:15  
Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	83.2	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	0.049	mg/kg dry	0.024	0.0022	1	*7471B	10/6/17 12:35	JAB	P7J0098
Arsenic	1.7	mg/kg dry	0.26	0.032	1	*6010D	10/4/17 18:44	JAB	P7J0025
Barium	92	mg/kg dry	0.53	0.077	1	*6010D	10/4/17 18:44	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.26	0.0071	1	*6010D	10/4/17 18:44	JAB	P7J0025
Chromium	81	mg/kg dry	0.26	0.044	1	*6010D	10/4/17 18:44	JAB	P7J0025
Lead	22	mg/kg dry	0.26	0.049	1	*6010D	10/4/17 18:44	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.53	0.13	1	*6010D	10/4/17 18:44	JAB	P7J0025
Silver	BRL	mg/kg dry	0.26	0.0066	1	*6010D	10/4/17 18:44	JAB	P7J0025

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Project: NCDOT Highpoint Pump  
Station U-2412A  
Project No.: WBS # 34802.1.1  
Sample Matrix: Solid

Client Sample ID: GP-5  
Prism Sample ID: 7100008-06  
Prism Work Order: 7100008  
Time Collected: 09/26/17 11:33  
Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	84.4	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.025	0.0024	1	*7471B	10/6/17 12:40	JAB	P7J0098
Arsenic	0.46	mg/kg dry	0.27	0.033	1	*6010D	10/4/17 18:53	JAB	P7J0025
Barium	160	mg/kg dry	5.4	0.79	10	*6010D	10/4/17 18:53	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.27	0.0072	1	*6010D	10/4/17 18:53	JAB	P7J0025
Chromium	17	mg/kg dry	0.27	0.045	1	*6010D	10/4/17 18:53	JAB	P7J0025
Lead	3.1	mg/kg dry	0.27	0.050	1	*6010D	10/4/17 18:53	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.54	0.13	1	*6010D	10/4/17 18:53	JAB	P7J0025
Silver	BRL	mg/kg dry	0.27	0.0067	1	*6010D	10/4/17 18:53	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B	10/5/17 17:19	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 17:19	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	10/5/17 17:19	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00049	1	8260B	10/5/17 17:19	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00015	1	8260B	10/5/17 17:19	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00024	1	8260B	10/5/17 17:19	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00030	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00070	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00022	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 17:19	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00034	1	8260B	10/5/17 17:19	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	10/5/17 17:19	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00037	1	8260B	10/5/17 17:19	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00028	1	8260B	10/5/17 17:19	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	10/5/17 17:19	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	10/5/17 17:19	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	10/5/17 17:19	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 17:19	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 17:19	ANG	P7J0085
Acetone	0.13	mg/kg dry	0.055	0.0013	1	8260B	10/5/17 17:19	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0033	0.00032	1	8260B	10/5/17 17:19	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0055	0.00046	1	8260B	10/5/17 17:19	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00030	1	8260B	10/5/17 17:19	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00031	1	8260B	10/5/17 17:19	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0055	0.00063	1	8260B	10/5/17 17:19	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.011	0.00068	1	8260B	10/5/17 17:19	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-5  
 Prism Sample ID: 7100008-06  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 11:33  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 17:19	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	10/5/17 17:19	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.011	0.00046	1	8260B	10/5/17 17:19	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0055	0.00040	1	8260B	10/5/17 17:19	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	10/5/17 17:19	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 17:19	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	10/5/17 17:19	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 17:19	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B	10/5/17 17:19	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00021	1	8260B	10/5/17 17:19	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 17:19	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 17:19	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00051	1	8260B	10/5/17 17:19	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.00050	1	8260B	10/5/17 17:19	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00050	1	8260B	10/5/17 17:19	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.055	0.00047	1	8260B	10/5/17 17:19	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.011	0.00031	1	8260B	10/5/17 17:19	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	10/5/17 17:19	ANG	P7J0085
<b>Naphthalene</b>	<b>0.019</b>	<b>mg/kg dry</b>	<b>0.011</b>	<b>0.00017</b>	<b>1</b>	<b>8260B</b>	<b>10/5/17 17:19</b>	<b>ANG</b>	<b>P7J0085</b>
n-Butylbenzene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	10/5/17 17:19	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 17:19	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	10/5/17 17:19	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 17:19	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 17:19	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	10/5/17 17:19	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	10/5/17 17:19	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0055	0.00032	1	8260B	10/5/17 17:19	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	10/5/17 17:19	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	10/5/17 17:19	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	10/5/17 17:19	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00036	1	8260B	10/5/17 17:19	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.028	0.00076	1	8260B	10/5/17 17:19	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	10/5/17 17:19	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.017	0.0010	1	8260B	10/5/17 17:19	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	102 %	84-123
Toluene-d8	117 %	76-129

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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-6  
 Prism Sample ID: 7100008-07  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 11:55  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	79.7	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.025	0.0024	1	*7471B	10/6/17 13:12	JAB	P7J0099
Arsenic	13 A	mg/kg dry	0.81	0.099	3	*6010D	10/6/17 7:34	JAB	P7J0025
Barium	53	mg/kg dry	0.54	0.079	1	*6010D	10/4/17 19:01	JAB	P7J0025
Cadmium	BRL A	mg/kg dry	0.81	0.022	3	*6010D	10/6/17 7:34	JAB	P7J0025
Chromium	140 A	mg/kg dry	0.81	0.14	3	*6010D	10/6/17 7:34	JAB	P7J0025
Lead	11 A	mg/kg dry	0.81	0.15	3	*6010D	10/6/17 7:34	JAB	P7J0025
Selenium	BRL A	mg/kg dry	1.6	0.38	3	*6010D	10/6/17 7:34	JAB	P7J0025
Silver	BRL A	mg/kg dry	0.81	0.020	3	*6010D	10/6/17 7:34	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0044	0.00036	1	8260B	10/5/17 17:47	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0044	0.00030	1	8260B	10/5/17 17:47	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0044	0.00039	1	8260B	10/5/17 17:47	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0044	0.00012	1	8260B	10/5/17 17:47	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00019	1	8260B	10/5/17 17:47	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00024	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0044	0.00025	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0044	0.00056	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0044	0.00033	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0044	0.00034	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0044	0.00027	1	8260B	10/5/17 17:47	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0044	0.00033	1	8260B	10/5/17 17:47	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.00029	1	8260B	10/5/17 17:47	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 17:47	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.00017	1	8260B	10/5/17 17:47	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0044	0.00023	1	8260B	10/5/17 17:47	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
Acetone	0.14	mg/kg dry	0.044	0.0011	1	8260B	10/5/17 17:47	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0026	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0044	0.00037	1	8260B	10/5/17 17:47	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0044	0.00024	1	8260B	10/5/17 17:47	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0044	0.00025	1	8260B	10/5/17 17:47	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0044	0.00050	1	8260B	10/5/17 17:47	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0088	0.00054	1	8260B	10/5/17 17:47	ANG	P7J0085

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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-6  
 Prism Sample ID: 7100008-07  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 11:55  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 17:47	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0044	0.00023	1	8260B	10/5/17 17:47	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0088	0.00037	1	8260B	10/5/17 17:47	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0044	0.00032	1	8260B	10/5/17 17:47	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0044	0.00030	1	8260B	10/5/17 17:47	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00019	1	8260B	10/5/17 17:47	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00015	1	8260B	10/5/17 17:47	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 17:47	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0044	0.00020	1	8260B	10/5/17 17:47	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0044	0.00017	1	8260B	10/5/17 17:47	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 17:47	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0088	0.00041	1	8260B	10/5/17 17:47	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.044	0.00040	1	8260B	10/5/17 17:47	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.088	0.00040	1	8260B	10/5/17 17:47	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.044	0.00037	1	8260B	10/5/17 17:47	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0088	0.00025	1	8260B	10/5/17 17:47	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0088	0.00014	1	8260B	10/5/17 17:47	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0088	0.00014	1	8260B	10/5/17 17:47	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 17:47	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 17:47	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0044	0.00015	1	8260B	10/5/17 17:47	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0044	0.00025	1	8260B	10/5/17 17:47	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 17:47	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00023	1	8260B	10/5/17 17:47	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0044	0.00029	1	8260B	10/5/17 17:47	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0044	0.00028	1	8260B	10/5/17 17:47	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.022	0.00060	1	8260B	10/5/17 17:47	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 17:47	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.013	0.00082	1	8260B	10/5/17 17:47	ANG	P7J0085
					Surrogate		Recovery		Control Limits
					4-Bromofluorobenzene		107 %		70-130
					Dibromofluoromethane		104 %		84-123
					Toluene-d8		116 %		76-129

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-7  
 Prism Sample ID: 7100008-08  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 12:15  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	81.2	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.026	0.0025	1	*7471B	10/6/17 13:25	JAB	P7J0099
<b>Arsenic</b>	<b>0.47</b>	<b>mg/kg dry</b>	<b>0.29</b>	<b>0.035</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 19:10</b>	<b>JAB</b>	<b>P7J0025</b>
<b>Barium</b>	<b>73</b>	<b>mg/kg dry</b>	<b>0.58</b>	<b>0.085</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 19:10</b>	<b>JAB</b>	<b>P7J0025</b>
Cadmium	BRL	mg/kg dry	0.29	0.0078	1	*6010D	10/4/17 19:10	JAB	P7J0025
<b>Chromium</b>	<b>14</b>	<b>mg/kg dry</b>	<b>0.29</b>	<b>0.049</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 19:10</b>	<b>JAB</b>	<b>P7J0025</b>
<b>Lead</b>	<b>2.4</b>	<b>mg/kg dry</b>	<b>0.29</b>	<b>0.054</b>	<b>1</b>	<b>*6010D</b>	<b>10/4/17 19:10</b>	<b>JAB</b>	<b>P7J0025</b>
Selenium	BRL	mg/kg dry	0.58	0.14	1	*6010D	10/4/17 19:10	JAB	P7J0025
Silver	BRL	mg/kg dry	0.29	0.0072	1	*6010D	10/4/17 19:10	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00041	1	8260B	10/5/17 18:14	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	10/5/17 18:14	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00045	1	8260B	10/5/17 18:14	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00014	1	8260B	10/5/17 18:14	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00022	1	8260B	10/5/17 18:14	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00028	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00029	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00064	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00037	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00020	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/17 18:14	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00031	1	8260B	10/5/17 18:14	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	8260B	10/5/17 18:14	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00033	1	8260B	10/5/17 18:14	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00025	1	8260B	10/5/17 18:14	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00020	1	8260B	10/5/17 18:14	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	10/5/17 18:14	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/17 18:14	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
<b>Acetone</b>	<b>0.079</b>	<b>mg/kg dry</b>	<b>0.050</b>	<b>0.0012</b>	<b>1</b>	<b>8260B</b>	<b>10/5/17 18:14</b>	<b>ANG</b>	<b>P7J0085</b>
Benzene	BRL	mg/kg dry	0.0030	0.00029	1	8260B	10/5/17 18:14	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0050	0.00042	1	8260B	10/5/17 18:14	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00028	1	8260B	10/5/17 18:14	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00028	1	8260B	10/5/17 18:14	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0050	0.00057	1	8260B	10/5/17 18:14	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.010	0.00062	1	8260B	10/5/17 18:14	ANG	P7J0085

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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-7  
 Prism Sample ID: 7100008-08  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 12:15  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00025	1	8260B	10/5/17 18:14	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00027	1	8260B	10/5/17 18:14	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.010	0.00042	1	8260B	10/5/17 18:14	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0050	0.00036	1	8260B	10/5/17 18:14	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	10/5/17 18:14	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/17 18:14	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00017	1	8260B	10/5/17 18:14	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/17 18:14	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0050	0.00023	1	8260B	10/5/17 18:14	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00019	1	8260B	10/5/17 18:14	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/17 18:14	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/17 18:14	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00046	1	8260B	10/5/17 18:14	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.00045	1	8260B	10/5/17 18:14	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00045	1	8260B	10/5/17 18:14	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.050	0.00043	1	8260B	10/5/17 18:14	ANG	P7J0085
<b>Methylene Chloride</b>	<b>0.0038 J</b>	<b>mg/kg dry</b>	<b>0.010</b>	<b>0.00028</b>	<b>1</b>	<b>8260B</b>	<b>10/5/17 18:14</b>	<b>ANG</b>	<b>P7J0085</b>
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	10/5/17 18:14	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	10/5/17 18:14	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	10/5/17 18:14	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/17 18:14	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	10/5/17 18:14	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/17 18:14	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0050	0.00017	1	8260B	10/5/17 18:14	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0050	0.00029	1	8260B	10/5/17 18:14	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	10/5/17 18:14	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	10/5/17 18:14	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0050	0.00033	1	8260B	10/5/17 18:14	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00033	1	8260B	10/5/17 18:14	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.025	0.00069	1	8260B	10/5/17 18:14	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0050	0.00024	1	8260B	10/5/17 18:14	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.015	0.00094	1	8260B	10/5/17 18:14	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	102 %	84-123
Toluene-d8	115 %	76-129

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Project: NCDOT Highpoint Pump  
Station U-2412A  
Project No.: WBS # 34802.1.1  
Sample Matrix: Solid

Client Sample ID: BG-2  
Prism Sample ID: 7100008-09  
Prism Work Order: 7100008  
Time Collected: 09/26/17 12:25  
Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	79.5	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.027	0.0026	1	*7471B	10/6/17 13:30	JAB	P7J0099
Arsenic	0.41	mg/kg dry	0.26	0.031	1	*6010D	10/4/17 19:20	JAB	P7J0025
Barium	110	mg/kg dry	0.51	0.075	1	*6010D	10/4/17 19:20	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.26	0.0069	1	*6010D	10/4/17 19:20	JAB	P7J0025
Chromium	130 E	mg/kg dry	0.26	0.043	1	*6010D	10/4/17 19:20	JAB	P7J0025
Lead	2.6	mg/kg dry	0.26	0.048	1	*6010D	10/4/17 19:20	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.51	0.12	1	*6010D	10/4/17 19:20	JAB	P7J0025
Silver	BRL	mg/kg dry	0.26	0.0064	1	*6010D	10/4/17 19:20	JAB	P7J0025

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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-8  
 Prism Sample ID: 7100008-10  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 12:40  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	79.0	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.027	0.0025	1	*7471B	10/6/17 13:35	JAB	P7J0099
Arsenic	1.7	mg/kg dry	0.29	0.036	1	*6010D	10/4/17 19:28	JAB	P7J0025
Barium	84	mg/kg dry	0.58	0.085	1	*6010D	10/4/17 19:28	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.29	0.0078	1	*6010D	10/4/17 19:28	JAB	P7J0025
Chromium	39	mg/kg dry	0.29	0.049	1	*6010D	10/4/17 19:28	JAB	P7J0025
Lead	5.3	mg/kg dry	0.29	0.054	1	*6010D	10/4/17 19:28	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.58	0.14	1	*6010D	10/4/17 19:28	JAB	P7J0025
Silver	BRL	mg/kg dry	0.29	0.0072	1	*6010D	10/4/17 19:28	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00039	1	8260B	10/5/17 18:42	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 18:42	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	10/5/17 18:42	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00042	1	8260B	10/5/17 18:42	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	8260B	10/5/17 18:42	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	10/5/17 18:42	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00061	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00035	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00022	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00028	1	8260B	10/5/17 18:42	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	8260B	10/5/17 18:42	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	10/5/17 18:42	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	8260B	10/5/17 18:42	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	8260B	10/5/17 18:42	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	10/5/17 18:42	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 18:42	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	10/5/17 18:42	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	10/5/17 18:42	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 18:42	ANG	P7J0085
Acetone	0.14	mg/kg dry	0.048	0.0012	1	8260B	10/5/17 18:42	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	10/5/17 18:42	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	8260B	10/5/17 18:42	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00026	1	8260B	10/5/17 18:42	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	10/5/17 18:42	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0048	0.00054	1	8260B	10/5/17 18:42	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0095	0.00059	1	8260B	10/5/17 18:42	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-8  
 Prism Sample ID: 7100008-10  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 12:40  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	8260B	10/5/17 18:42	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	10/5/17 18:42	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0095	0.00040	1	8260B	10/5/17 18:42	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0048	0.00034	1	8260B	10/5/17 18:42	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	10/5/17 18:42	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	10/5/17 18:42	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	10/5/17 18:42	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	8260B	10/5/17 18:42	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	8260B	10/5/17 18:42	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00018	1	8260B	10/5/17 18:42	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00019	1	8260B	10/5/17 18:42	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00028	1	8260B	10/5/17 18:42	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0095	0.00044	1	8260B	10/5/17 18:42	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00043	1	8260B	10/5/17 18:42	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.095	0.00043	1	8260B	10/5/17 18:42	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	8260B	10/5/17 18:42	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0095	0.00027	1	8260B	10/5/17 18:42	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0095	0.00015	1	8260B	10/5/17 18:42	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0095	0.00015	1	8260B	10/5/17 18:42	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00024	1	8260B	10/5/17 18:42	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	10/5/17 18:42	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	10/5/17 18:42	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 18:42	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 18:42	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	10/5/17 18:42	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 18:42	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	10/5/17 18:42	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 18:42	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	10/5/17 18:42	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	8260B	10/5/17 18:42	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	8260B	10/5/17 18:42	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.024	0.00065	1	8260B	10/5/17 18:42	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 18:42	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.014	0.00089	1	8260B	10/5/17 18:42	ANG	P7J0085
						Surrogate	Recovery	Control Limits	
						4-Bromofluorobenzene	104 %	70-130	
						Dibromofluoromethane	103 %	84-123	
						Toluene-d8	118 %	76-129	

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-9  
 Prism Sample ID: 7100008-11  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 12:55  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	78.9	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	0.026	mg/kg dry	0.026	0.0024	1	*7471B	10/6/17 13:39	JAB	P7J0099
Arsenic	1.7	mg/kg dry	0.32	0.038	1	*6010D	10/5/17 19:52	JAB	P7J0025
Barium	88	mg/kg dry	0.63	0.092	1	*6010D	10/5/17 19:52	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.32	0.0084	1	*6010D	10/5/17 19:52	JAB	P7J0025
Chromium	64	mg/kg dry	0.32	0.053	1	*6010D	10/5/17 19:52	JAB	P7J0025
Lead	8.5	mg/kg dry	0.32	0.059	1	*6010D	10/5/17 19:52	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.63	0.15	1	*6010D	10/5/17 19:52	JAB	P7J0025
Silver	BRL	mg/kg dry	0.32	0.0078	1	*6010D	10/5/17 19:52	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0044	0.00036	1	8260B	10/5/17 19:09	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 19:09	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0044	0.00029	1	8260B	10/5/17 19:09	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0044	0.00039	1	8260B	10/5/17 19:09	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0044	0.00012	1	8260B	10/5/17 19:09	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00019	1	8260B	10/5/17 19:09	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00024	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0044	0.00025	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0044	0.00056	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0044	0.00032	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0044	0.00033	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.00020	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 19:09	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0044	0.00027	1	8260B	10/5/17 19:09	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0044	0.00033	1	8260B	10/5/17 19:09	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.00029	1	8260B	10/5/17 19:09	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 19:09	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0044	0.00017	1	8260B	10/5/17 19:09	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 19:09	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 19:09	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 19:09	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 19:09	ANG	P7J0085
Acetone	0.056	mg/kg dry	0.044	0.0011	1	8260B	10/5/17 19:09	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0026	0.00025	1	8260B	10/5/17 19:09	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0044	0.00036	1	8260B	10/5/17 19:09	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0044	0.00024	1	8260B	10/5/17 19:09	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0044	0.00024	1	8260B	10/5/17 19:09	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0044	0.00050	1	8260B	10/5/17 19:09	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0087	0.00054	1	8260B	10/5/17 19:09	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-9  
 Prism Sample ID: 7100008-11  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 12:55  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 19:09	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0044	0.00023	1	8260B	10/5/17 19:09	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0087	0.00036	1	8260B	10/5/17 19:09	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0044	0.00031	1	8260B	10/5/17 19:09	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0044	0.00029	1	8260B	10/5/17 19:09	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00019	1	8260B	10/5/17 19:09	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00015	1	8260B	10/5/17 19:09	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 19:09	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0044	0.00020	1	8260B	10/5/17 19:09	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0044	0.00017	1	8260B	10/5/17 19:09	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 19:09	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 19:09	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0087	0.00040	1	8260B	10/5/17 19:09	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.044	0.00039	1	8260B	10/5/17 19:09	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.087	0.00039	1	8260B	10/5/17 19:09	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.044	0.00037	1	8260B	10/5/17 19:09	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0087	0.00024	1	8260B	10/5/17 19:09	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0087	0.00014	1	8260B	10/5/17 19:09	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0087	0.00014	1	8260B	10/5/17 19:09	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0044	0.00022	1	8260B	10/5/17 19:09	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 19:09	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0044	0.00018	1	8260B	10/5/17 19:09	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 19:09	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 19:09	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0044	0.00015	1	8260B	10/5/17 19:09	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 19:09	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0044	0.00025	1	8260B	10/5/17 19:09	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0044	0.00026	1	8260B	10/5/17 19:09	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0044	0.00023	1	8260B	10/5/17 19:09	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0044	0.00028	1	8260B	10/5/17 19:09	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0044	0.00028	1	8260B	10/5/17 19:09	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.022	0.00060	1	8260B	10/5/17 19:09	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0044	0.00021	1	8260B	10/5/17 19:09	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.013	0.00082	1	8260B	10/5/17 19:09	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	104 %	84-123
Toluene-d8	116 %	76-129

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-10  
 Prism Sample ID: 7100008-12  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 13:14  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	73.6	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	0.37	mg/kg dry	0.028	0.0026	1	*7471B	10/9/17 10:48	JAB	P7J0127
Arsenic	6.9	mg/kg dry	0.28	0.034	1	*6010D	10/5/17 20:01	JAB	P7J0025
Barium	110	mg/kg dry	0.56	0.082	1	*6010D	10/5/17 20:01	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.28	0.0075	1	*6010D	10/5/17 20:01	JAB	P7J0025
Chromium	93	mg/kg dry	0.28	0.047	1	*6010D	10/5/17 20:01	JAB	P7J0025
Lead	77	mg/kg dry	0.28	0.052	1	*6010D	10/5/17 20:01	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.56	0.13	1	*6010D	10/5/17 20:01	JAB	P7J0025
Silver	BRL	mg/kg dry	0.28	0.0069	1	*6010D	10/5/17 20:01	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0081	0.00066	1	8260B	10/5/17 19:37	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0081	0.00039	1	8260B	10/5/17 19:37	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0081	0.00055	1	8260B	10/5/17 19:37	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0081	0.00072	1	8260B	10/5/17 19:37	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0081	0.00022	1	8260B	10/5/17 19:37	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0081	0.00036	1	8260B	10/5/17 19:37	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0081	0.00044	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0081	0.00046	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0081	0.0010	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0081	0.00060	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0081	0.00062	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0081	0.00032	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00038	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0081	0.00048	1	8260B	10/5/17 19:37	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0081	0.00050	1	8260B	10/5/17 19:37	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0081	0.00061	1	8260B	10/5/17 19:37	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00053	1	8260B	10/5/17 19:37	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0081	0.00041	1	8260B	10/5/17 19:37	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0081	0.00032	1	8260B	10/5/17 19:37	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0081	0.00038	1	8260B	10/5/17 19:37	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0081	0.00042	1	8260B	10/5/17 19:37	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0081	0.00048	1	8260B	10/5/17 19:37	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0081	0.00039	1	8260B	10/5/17 19:37	ANG	P7J0085
Acetone	0.047 J	mg/kg dry	0.081	0.0020	1	8260B	10/5/17 19:37	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0048	0.00047	1	8260B	10/5/17 19:37	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0081	0.00067	1	8260B	10/5/17 19:37	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0081	0.00044	1	8260B	10/5/17 19:37	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0081	0.00045	1	8260B	10/5/17 19:37	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0081	0.00092	1	8260B	10/5/17 19:37	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.016	0.0010	1	8260B	10/5/17 19:37	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-10  
 Prism Sample ID: 7100008-12  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 13:14  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0081	0.00040	1	8260B	10/5/17 19:37	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0081	0.00043	1	8260B	10/5/17 19:37	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.016	0.00067	1	8260B	10/5/17 19:37	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0081	0.00058	1	8260B	10/5/17 19:37	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0081	0.00054	1	8260B	10/5/17 19:37	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0081	0.00034	1	8260B	10/5/17 19:37	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0081	0.00027	1	8260B	10/5/17 19:37	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0081	0.00033	1	8260B	10/5/17 19:37	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0081	0.00037	1	8260B	10/5/17 19:37	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0081	0.00031	1	8260B	10/5/17 19:37	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0081	0.00033	1	8260B	10/5/17 19:37	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0081	0.00048	1	8260B	10/5/17 19:37	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.016	0.00074	1	8260B	10/5/17 19:37	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.081	0.00073	1	8260B	10/5/17 19:37	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.16	0.00073	1	8260B	10/5/17 19:37	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.081	0.00069	1	8260B	10/5/17 19:37	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.016	0.00045	1	8260B	10/5/17 19:37	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.016	0.00026	1	8260B	10/5/17 19:37	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.016	0.00026	1	8260B	10/5/17 19:37	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0081	0.00041	1	8260B	10/5/17 19:37	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0081	0.00048	1	8260B	10/5/17 19:37	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0081	0.00033	1	8260B	10/5/17 19:37	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0081	0.00039	1	8260B	10/5/17 19:37	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0081	0.00049	1	8260B	10/5/17 19:37	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0081	0.00027	1	8260B	10/5/17 19:37	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0081	0.00038	1	8260B	10/5/17 19:37	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0081	0.00046	1	8260B	10/5/17 19:37	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0081	0.00048	1	8260B	10/5/17 19:37	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0081	0.00042	1	8260B	10/5/17 19:37	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0081	0.00052	1	8260B	10/5/17 19:37	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0081	0.00052	1	8260B	10/5/17 19:37	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.040	0.0011	1	8260B	10/5/17 19:37	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0081	0.00039	1	8260B	10/5/17 19:37	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.024	0.0015	1	8260B	10/5/17 19:37	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	106 %	84-123
Toluene-d8	116 %	76-129

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-11  
 Prism Sample ID: 7100008-13  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 13:35  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	77.6	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.024	0.0023	1	*7471B	10/9/17 11:01	JAB	P7J0127
Arsenic	4.6	mg/kg dry	0.28	0.034	1	*6010D	10/5/17 20:09	JAB	P7J0025
Barium	68	mg/kg dry	0.56	0.082	1	*6010D	10/5/17 20:09	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.28	0.0075	1	*6010D	10/5/17 20:09	JAB	P7J0025
Chromium	18	mg/kg dry	0.28	0.047	1	*6010D	10/5/17 20:09	JAB	P7J0025
Lead	27	mg/kg dry	0.28	0.052	1	*6010D	10/5/17 20:09	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.56	0.13	1	*6010D	10/5/17 20:09	JAB	P7J0025
Silver	BRL	mg/kg dry	0.28	0.0070	1	*6010D	10/5/17 20:09	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0065	0.00053	1	8260B	10/5/17 20:04	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0065	0.00031	1	8260B	10/5/17 20:04	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0065	0.00044	1	8260B	10/5/17 20:04	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0065	0.00057	1	8260B	10/5/17 20:04	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0065	0.00018	1	8260B	10/5/17 20:04	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00029	1	8260B	10/5/17 20:04	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00035	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0065	0.00037	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0065	0.00083	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0065	0.00048	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0065	0.00049	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0065	0.00026	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00030	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0065	0.00039	1	8260B	10/5/17 20:04	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0065	0.00040	1	8260B	10/5/17 20:04	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0065	0.00049	1	8260B	10/5/17 20:04	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00043	1	8260B	10/5/17 20:04	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0065	0.00032	1	8260B	10/5/17 20:04	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00025	1	8260B	10/5/17 20:04	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0065	0.00031	1	8260B	10/5/17 20:04	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0065	0.00033	1	8260B	10/5/17 20:04	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	10/5/17 20:04	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	10/5/17 20:04	ANG	P7J0085
Acetone	0.10	mg/kg dry	0.065	0.0016	1	8260B	10/5/17 20:04	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0039	0.00038	1	8260B	10/5/17 20:04	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0065	0.00054	1	8260B	10/5/17 20:04	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0065	0.00036	1	8260B	10/5/17 20:04	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0065	0.00036	1	8260B	10/5/17 20:04	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0065	0.00073	1	8260B	10/5/17 20:04	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.013	0.00080	1	8260B	10/5/17 20:04	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-11  
 Prism Sample ID: 7100008-13  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 13:35  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0065	0.00032	1	8260B	10/5/17 20:04	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0065	0.00034	1	8260B	10/5/17 20:04	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.013	0.00054	1	8260B	10/5/17 20:04	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0065	0.00047	1	8260B	10/5/17 20:04	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0065	0.00043	1	8260B	10/5/17 20:04	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00028	1	8260B	10/5/17 20:04	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00022	1	8260B	10/5/17 20:04	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0065	0.00027	1	8260B	10/5/17 20:04	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0065	0.00029	1	8260B	10/5/17 20:04	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0065	0.00025	1	8260B	10/5/17 20:04	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0065	0.00026	1	8260B	10/5/17 20:04	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0065	0.00038	1	8260B	10/5/17 20:04	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.013	0.00060	1	8260B	10/5/17 20:04	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.065	0.00058	1	8260B	10/5/17 20:04	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.13	0.00058	1	8260B	10/5/17 20:04	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.065	0.00055	1	8260B	10/5/17 20:04	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.013	0.00036	1	8260B	10/5/17 20:04	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.013	0.00021	1	8260B	10/5/17 20:04	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.013	0.00020	1	8260B	10/5/17 20:04	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0065	0.00033	1	8260B	10/5/17 20:04	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0065	0.00038	1	8260B	10/5/17 20:04	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0065	0.00027	1	8260B	10/5/17 20:04	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	10/5/17 20:04	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	10/5/17 20:04	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0065	0.00022	1	8260B	10/5/17 20:04	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	10/5/17 20:04	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0065	0.00037	1	8260B	10/5/17 20:04	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	10/5/17 20:04	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00034	1	8260B	10/5/17 20:04	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0065	0.00042	1	8260B	10/5/17 20:04	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0065	0.00042	1	8260B	10/5/17 20:04	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.032	0.00089	1	8260B	10/5/17 20:04	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0065	0.00031	1	8260B	10/5/17 20:04	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.019	0.0012	1	8260B	10/5/17 20:04	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	105 %	70-130
Dibromofluoromethane	105 %	84-123
Toluene-d8	116 %	76-129

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-12  
 Prism Sample ID: 7100008-14  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 14:05  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	79.7	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	0.055	mg/kg dry	0.023	0.0022	1	*7471B	10/9/17 11:06	JAB	P7J0127
Arsenic	3.0	mg/kg dry	0.25	0.031	1	*6010D	10/5/17 20:19	JAB	P7J0025
Barium	43	mg/kg dry	0.51	0.074	1	*6010D	10/5/17 20:19	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.25	0.0068	1	*6010D	10/5/17 20:19	JAB	P7J0025
Chromium	43	mg/kg dry	0.25	0.042	1	*6010D	10/5/17 20:19	JAB	P7J0025
Lead	29	mg/kg dry	0.25	0.047	1	*6010D	10/5/17 20:19	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.51	0.12	1	*6010D	10/5/17 20:19	JAB	P7J0025
Silver	BRL	mg/kg dry	0.25	0.0063	1	*6010D	10/5/17 20:19	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0047	0.00039	1	8260B	10/5/17 20:32	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 20:32	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0047	0.00032	1	8260B	10/5/17 20:32	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0047	0.00042	1	8260B	10/5/17 20:32	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0047	0.00013	1	8260B	10/5/17 20:32	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00021	1	8260B	10/5/17 20:32	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00026	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0047	0.00027	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0047	0.00060	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0047	0.00035	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0047	0.00036	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 20:32	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0047	0.00029	1	8260B	10/5/17 20:32	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0047	0.00035	1	8260B	10/5/17 20:32	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00031	1	8260B	10/5/17 20:32	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 20:32	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00018	1	8260B	10/5/17 20:32	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0047	0.00022	1	8260B	10/5/17 20:32	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 20:32	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 20:32	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 20:32	ANG	P7J0085
<b>Acetone</b>	<b>0.12</b>	<b>mg/kg dry</b>	<b>0.047</b>	<b>0.0011</b>	<b>1</b>	<b>8260B</b>	<b>10/5/17 20:32</b>	<b>ANG</b>	<b>P7J0085</b>
Benzene	BRL	mg/kg dry	0.0028	0.00027	1	8260B	10/5/17 20:32	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0047	0.00039	1	8260B	10/5/17 20:32	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0047	0.00026	1	8260B	10/5/17 20:32	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0047	0.00026	1	8260B	10/5/17 20:32	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0047	0.00053	1	8260B	10/5/17 20:32	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0094	0.00058	1	8260B	10/5/17 20:32	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-12  
 Prism Sample ID: 7100008-14  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 14:05  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 20:32	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0047	0.00025	1	8260B	10/5/17 20:32	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0094	0.00039	1	8260B	10/5/17 20:32	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0047	0.00034	1	8260B	10/5/17 20:32	ANG	P7J0085
<b>Chloromethane</b>	<b>0.014</b>	<b>mg/kg dry</b>	<b>0.0047</b>	<b>0.00031</b>	<b>1</b>	<b>8260B</b>	<b>10/5/17 20:32</b>	<b>ANG</b>	<b>P7J0085</b>
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00020	1	8260B	10/5/17 20:32	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00016	1	8260B	10/5/17 20:32	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 20:32	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0047	0.00021	1	8260B	10/5/17 20:32	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0047	0.00018	1	8260B	10/5/17 20:32	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 20:32	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 20:32	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0094	0.00043	1	8260B	10/5/17 20:32	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.047	0.00042	1	8260B	10/5/17 20:32	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.094	0.00042	1	8260B	10/5/17 20:32	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.047	0.00040	1	8260B	10/5/17 20:32	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0094	0.00026	1	8260B	10/5/17 20:32	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0094	0.00015	1	8260B	10/5/17 20:32	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0094	0.00015	1	8260B	10/5/17 20:32	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0047	0.00024	1	8260B	10/5/17 20:32	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 20:32	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0047	0.00019	1	8260B	10/5/17 20:32	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 20:32	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 20:32	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0047	0.00016	1	8260B	10/5/17 20:32	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	10/5/17 20:32	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0047	0.00027	1	8260B	10/5/17 20:32	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	10/5/17 20:32	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00025	1	8260B	10/5/17 20:32	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0047	0.00030	1	8260B	10/5/17 20:32	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0047	0.00030	1	8260B	10/5/17 20:32	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.023	0.00064	1	8260B	10/5/17 20:32	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0047	0.00023	1	8260B	10/5/17 20:32	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.014	0.00088	1	8260B	10/5/17 20:32	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	105 %	70-130
Dibromofluoromethane	107 %	84-123
Toluene-d8	115 %	76-129

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-13  
 Prism Sample ID: 7100008-15  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 14:28  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	79.7	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	0.026	mg/kg dry	0.026	0.0025	1	*7471B	10/9/17 11:11	JAB	P7J0127
Arsenic	1.0	mg/kg dry	0.26	0.032	1	*6010D	10/5/17 20:28	JAB	P7J0025
Barium	57	mg/kg dry	0.53	0.077	1	*6010D	10/5/17 20:28	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.26	0.0071	1	*6010D	10/5/17 20:28	JAB	P7J0025
Chromium	39	mg/kg dry	0.26	0.044	1	*6010D	10/5/17 20:28	JAB	P7J0025
Lead	5.9	mg/kg dry	0.26	0.049	1	*6010D	10/5/17 20:28	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.53	0.13	1	*6010D	10/5/17 20:28	JAB	P7J0025
Silver	BRL	mg/kg dry	0.26	0.0066	1	*6010D	10/5/17 20:28	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00040	1	8260B	10/5/17 20:59	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00033	1	8260B	10/5/17 20:59	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00043	1	8260B	10/5/17 20:59	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	8260B	10/5/17 20:59	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	10/5/17 20:59	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00062	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 20:59	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	8260B	10/5/17 20:59	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	8260B	10/5/17 20:59	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	8260B	10/5/17 20:59	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	8260B	10/5/17 20:59	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	10/5/17 20:59	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	10/5/17 20:59	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 20:59	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
Acetone	0.033 J	mg/kg dry	0.048	0.0012	1	8260B	10/5/17 20:59	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	10/5/17 20:59	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	8260B	10/5/17 20:59	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	10/5/17 20:59	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	10/5/17 20:59	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0048	0.00055	1	8260B	10/5/17 20:59	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0097	0.00060	1	8260B	10/5/17 20:59	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-13  
 Prism Sample ID: 7100008-15  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 14:28  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	8260B	10/5/17 20:59	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	10/5/17 20:59	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0097	0.00040	1	8260B	10/5/17 20:59	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0048	0.00035	1	8260B	10/5/17 20:59	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	10/5/17 20:59	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	10/5/17 20:59	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	10/5/17 20:59	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	8260B	10/5/17 20:59	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	8260B	10/5/17 20:59	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	10/5/17 20:59	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00020	1	8260B	10/5/17 20:59	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 20:59	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0097	0.00045	1	8260B	10/5/17 20:59	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00044	1	8260B	10/5/17 20:59	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.097	0.00044	1	8260B	10/5/17 20:59	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	8260B	10/5/17 20:59	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0097	0.00027	1	8260B	10/5/17 20:59	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0097	0.00015	1	8260B	10/5/17 20:59	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0097	0.00015	1	8260B	10/5/17 20:59	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	10/5/17 20:59	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 20:59	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	10/5/17 20:59	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 20:59	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	10/5/17 20:59	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	10/5/17 20:59	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	10/5/17 20:59	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	10/5/17 20:59	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	8260B	10/5/17 20:59	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	8260B	10/5/17 20:59	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.024	0.00066	1	8260B	10/5/17 20:59	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	8260B	10/5/17 20:59	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.014	0.00091	1	8260B	10/5/17 20:59	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	105 %	84-123
Toluene-d8	116 %	76-129

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Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-14  
 Prism Sample ID: 7100008-16  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 15:30  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	75.0	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	0.055	mg/kg dry	0.025	0.0023	1	*7471B	10/9/17 11:15	JAB	P7J0127
Arsenic	2.3	mg/kg dry	0.27	0.033	1	*6010D	10/5/17 20:37	JAB	P7J0025
Barium	95	mg/kg dry	0.54	0.078	1	*6010D	10/5/17 20:37	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.27	0.0072	1	*6010D	10/5/17 20:37	JAB	P7J0025
Chromium	48	mg/kg dry	0.27	0.045	1	*6010D	10/5/17 20:37	JAB	P7J0025
Lead	27	mg/kg dry	0.27	0.050	1	*6010D	10/5/17 20:37	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.54	0.13	1	*6010D	10/5/17 20:37	JAB	P7J0025
Silver	BRL	mg/kg dry	0.27	0.0066	1	*6010D	10/5/17 20:37	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00038	1	8260B	10/5/17 21:27	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00031	1	8260B	10/5/17 21:27	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0046	0.00041	1	8260B	10/5/17 21:27	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0046	0.00013	1	8260B	10/5/17 21:27	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00020	1	8260B	10/5/17 21:27	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00025	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.00026	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0046	0.00059	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.00034	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.00035	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 21:27	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00029	1	8260B	10/5/17 21:27	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.00035	1	8260B	10/5/17 21:27	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00031	1	8260B	10/5/17 21:27	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0046	0.00023	1	8260B	10/5/17 21:27	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00018	1	8260B	10/5/17 21:27	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 21:27	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 21:27	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
Acetone	0.086	mg/kg dry	0.046	0.0011	1	8260B	10/5/17 21:27	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0028	0.00027	1	8260B	10/5/17 21:27	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0046	0.00039	1	8260B	10/5/17 21:27	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0046	0.00025	1	8260B	10/5/17 21:27	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0046	0.00026	1	8260B	10/5/17 21:27	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0046	0.00053	1	8260B	10/5/17 21:27	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0093	0.00057	1	8260B	10/5/17 21:27	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-14  
 Prism Sample ID: 7100008-16  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 15:30  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0046	0.00023	1	8260B	10/5/17 21:27	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0046	0.00025	1	8260B	10/5/17 21:27	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0093	0.00039	1	8260B	10/5/17 21:27	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0046	0.00033	1	8260B	10/5/17 21:27	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0046	0.00031	1	8260B	10/5/17 21:27	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00020	1	8260B	10/5/17 21:27	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00016	1	8260B	10/5/17 21:27	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 21:27	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0046	0.00021	1	8260B	10/5/17 21:27	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0046	0.00018	1	8260B	10/5/17 21:27	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 21:27	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0046	0.00027	1	8260B	10/5/17 21:27	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0093	0.00043	1	8260B	10/5/17 21:27	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.046	0.00042	1	8260B	10/5/17 21:27	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.093	0.00042	1	8260B	10/5/17 21:27	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.046	0.00039	1	8260B	10/5/17 21:27	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0093	0.00026	1	8260B	10/5/17 21:27	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0093	0.00015	1	8260B	10/5/17 21:27	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0093	0.00015	1	8260B	10/5/17 21:27	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 21:27	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 21:27	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0046	0.00019	1	8260B	10/5/17 21:27	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 21:27	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0046	0.00016	1	8260B	10/5/17 21:27	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0046	0.00027	1	8260B	10/5/17 21:27	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	10/5/17 21:27	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	10/5/17 21:27	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0046	0.00030	1	8260B	10/5/17 21:27	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0046	0.00030	1	8260B	10/5/17 21:27	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.023	0.00063	1	8260B	10/5/17 21:27	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0046	0.00022	1	8260B	10/5/17 21:27	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.014	0.00087	1	8260B	10/5/17 21:27	ANG	P7J0085

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	107 %	70-130
Dibromofluoromethane	106 %	84-123
Toluene-d8	117 %	76-129

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ECS Carolinas, LLP (Greensboro)  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-15  
 Prism Sample ID: 7100008-17  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 16:15  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>General Chemistry Parameters</b>									
% Solids	81.5	% by Weight	0.100	0.100	1	*SM2540 G	10/4/17 15:00	JLB	P7J0078
<b>Total Metals</b>									
Mercury	BRL	mg/kg dry	0.023	0.0022	1	*7471B	10/9/17 11:20	JAB	P7J0127
Arsenic	3.2	mg/kg dry	0.27	0.033	1	*6010D	10/5/17 20:46	JAB	P7J0025
Barium	62	mg/kg dry	0.54	0.079	1	*6010D	10/5/17 20:46	JAB	P7J0025
Cadmium	BRL	mg/kg dry	0.27	0.0072	1	*6010D	10/5/17 20:46	JAB	P7J0025
Chromium	210	mg/kg dry	0.54	0.090	2	*6010D	10/6/17 15:14	JAB	P7J0025
Lead	12	mg/kg dry	0.27	0.050	1	*6010D	10/5/17 20:46	JAB	P7J0025
Selenium	BRL	mg/kg dry	0.54	0.13	1	*6010D	10/5/17 20:46	JAB	P7J0025
Silver	BRL	mg/kg dry	0.27	0.0067	1	*6010D	10/5/17 20:46	JAB	P7J0025
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0040	0.00033	1	8260B	10/5/17 21:54	ANG	P7J0085
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/17 21:54	ANG	P7J0085
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0040	0.00036	1	8260B	10/5/17 21:54	ANG	P7J0085
1,1-Dichloroethane	BRL	mg/kg dry	0.0040	0.00011	1	8260B	10/5/17 21:54	ANG	P7J0085
1,1-Dichloroethylene	BRL	mg/kg dry	0.0040	0.00018	1	8260B	10/5/17 21:54	ANG	P7J0085
1,1-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00022	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0040	0.00023	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0040	0.00051	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0040	0.00030	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0040	0.00031	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2-Dibromoethane	BRL	mg/kg dry	0.0040	0.00016	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2-Dichloroethane	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/17 21:54	ANG	P7J0085
1,2-Dichloropropane	BRL	mg/kg dry	0.0040	0.00025	1	8260B	10/5/17 21:54	ANG	P7J0085
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0040	0.00030	1	8260B	10/5/17 21:54	ANG	P7J0085
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/17 21:54	ANG	P7J0085
1,3-Dichloropropane	BRL	mg/kg dry	0.0040	0.00020	1	8260B	10/5/17 21:54	ANG	P7J0085
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0040	0.00016	1	8260B	10/5/17 21:54	ANG	P7J0085
2,2-Dichloropropane	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
2-Chlorotoluene	BRL	mg/kg dry	0.0040	0.00021	1	8260B	10/5/17 21:54	ANG	P7J0085
4-Chlorotoluene	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/17 21:54	ANG	P7J0085
4-Isopropyltoluene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
Acetone	0.039 J	mg/kg dry	0.040	0.00098	1	8260B	10/5/17 21:54	ANG	P7J0085
Benzene	BRL	mg/kg dry	0.0024	0.00023	1	8260B	10/5/17 21:54	ANG	P7J0085
Bromobenzene	BRL	mg/kg dry	0.0040	0.00034	1	8260B	10/5/17 21:54	ANG	P7J0085
Bromochloromethane	BRL	mg/kg dry	0.0040	0.00022	1	8260B	10/5/17 21:54	ANG	P7J0085
Bromodichloromethane	BRL	mg/kg dry	0.0040	0.00022	1	8260B	10/5/17 21:54	ANG	P7J0085
Bromoform	BRL	mg/kg dry	0.0040	0.00046	1	8260B	10/5/17 21:54	ANG	P7J0085
Bromomethane	BRL	mg/kg dry	0.0080	0.00050	1	8260B	10/5/17 21:54	ANG	P7J0085

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ECS Carolinas, LLP (Greensboro)  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump  
 Station U-2412A  
 Project No.: WBS # 34802.1.1  
 Sample Matrix: Solid

Client Sample ID: GP-15  
 Prism Sample ID: 7100008-17  
 Prism Work Order: 7100008  
 Time Collected: 09/26/17 16:15  
 Time Submitted: 09/29/17 12:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0040	0.00020	1	8260B	10/5/17 21:54	ANG	P7J0085
Chlorobenzene	BRL	mg/kg dry	0.0040	0.00021	1	8260B	10/5/17 21:54	ANG	P7J0085
Chloroethane	BRL	mg/kg dry	0.0080	0.00034	1	8260B	10/5/17 21:54	ANG	P7J0085
Chloroform	BRL	mg/kg dry	0.0040	0.00029	1	8260B	10/5/17 21:54	ANG	P7J0085
Chloromethane	BRL	mg/kg dry	0.0040	0.00027	1	8260B	10/5/17 21:54	ANG	P7J0085
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/17 21:54	ANG	P7J0085
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00014	1	8260B	10/5/17 21:54	ANG	P7J0085
Dibromochloromethane	BRL	mg/kg dry	0.0040	0.00017	1	8260B	10/5/17 21:54	ANG	P7J0085
Dichlorodifluoromethane	BRL	mg/kg dry	0.0040	0.00018	1	8260B	10/5/17 21:54	ANG	P7J0085
Ethylbenzene	BRL	mg/kg dry	0.0040	0.00015	1	8260B	10/5/17 21:54	ANG	P7J0085
Isopropyl Ether	BRL	mg/kg dry	0.0040	0.00016	1	8260B	10/5/17 21:54	ANG	P7J0085
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/17 21:54	ANG	P7J0085
m,p-Xylenes	BRL	mg/kg dry	0.0080	0.00037	1	8260B	10/5/17 21:54	ANG	P7J0085
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.040	0.00036	1	8260B	10/5/17 21:54	ANG	P7J0085
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.080	0.00036	1	8260B	10/5/17 21:54	ANG	P7J0085
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.040	0.00034	1	8260B	10/5/17 21:54	ANG	P7J0085
Methylene Chloride	BRL	mg/kg dry	0.0080	0.00023	1	8260B	10/5/17 21:54	ANG	P7J0085
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0080	0.00013	1	8260B	10/5/17 21:54	ANG	P7J0085
Naphthalene	BRL	mg/kg dry	0.0080	0.00013	1	8260B	10/5/17 21:54	ANG	P7J0085
n-Butylbenzene	BRL	mg/kg dry	0.0040	0.00021	1	8260B	10/5/17 21:54	ANG	P7J0085
n-Propylbenzene	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/17 21:54	ANG	P7J0085
o-Xylene	BRL	mg/kg dry	0.0040	0.00016	1	8260B	10/5/17 21:54	ANG	P7J0085
sec-Butylbenzene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
Styrene	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/17 21:54	ANG	P7J0085
tert-Butylbenzene	BRL	mg/kg dry	0.0040	0.00014	1	8260B	10/5/17 21:54	ANG	P7J0085
Tetrachloroethylene	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
Toluene	BRL	mg/kg dry	0.0040	0.00023	1	8260B	10/5/17 21:54	ANG	P7J0085
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0040	0.00024	1	8260B	10/5/17 21:54	ANG	P7J0085
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0040	0.00021	1	8260B	10/5/17 21:54	ANG	P7J0085
Trichloroethylene	BRL	mg/kg dry	0.0040	0.00026	1	8260B	10/5/17 21:54	ANG	P7J0085
Trichlorofluoromethane	BRL	mg/kg dry	0.0040	0.00026	1	8260B	10/5/17 21:54	ANG	P7J0085
Vinyl acetate	BRL	mg/kg dry	0.020	0.00055	1	8260B	10/5/17 21:54	ANG	P7J0085
Vinyl chloride	BRL	mg/kg dry	0.0040	0.00019	1	8260B	10/5/17 21:54	ANG	P7J0085
Xylenes, total	BRL	mg/kg dry	0.012	0.00075	1	8260B	10/5/17 21:54	ANG	P7J0085
				Surrogate		Recovery		Control Limits	
				4-Bromofluorobenzene		102 %		70-130	
				Dibromofluoromethane		104 %		84-123	
				Toluene-d8		115 %		76-129	

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ECS Carolinas, LLP (Greensboro)  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>Blank (P7J0085-BLK1)</b>										
Prepared & Analyzed: 10/05/17										
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>Blank (P7J0085-BLK1)</b>										
Prepared & Analyzed: 10/05/17										
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	52.4		ug/L	50.00		105	70-130			
Surrogate: Dibromofluoromethane	50.9		ug/L	50.00		102	84-123			
Surrogate: Toluene-d8	58.0		ug/L	50.00		116	76-129			
<b>LCS (P7J0085-BS1)</b>										
Prepared & Analyzed: 10/05/17										
1,1,1,2-Tetrachloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	72-115			
1,1,1-Trichloroethane	0.0386	0.0050	mg/kg wet	0.05000		77	67-131			
1,1,2,2-Tetrachloroethane	0.0539	0.0050	mg/kg wet	0.05000		108	56-126			
1,1,2-Trichloroethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-133			
1,1-Dichloroethane	0.0397	0.0050	mg/kg wet	0.05000		79	74-127			
1,1-Dichloroethylene	0.0423	0.0050	mg/kg wet	0.05000		85	67-149			
1,1-Dichloropropylene	0.0376	0.0050	mg/kg wet	0.05000		75	71-130			
1,2,3-Trichlorobenzene	0.0511	0.0050	mg/kg wet	0.05000		102	68-130			
1,2,3-Trichloropropane	0.0548	0.0050	mg/kg wet	0.05000		110	60-137			
1,2,4-Trichlorobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	66-125			
1,2,4-Trimethylbenzene	0.0573	0.0050	mg/kg wet	0.05000		115	69-129			
1,2-Dibromoethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-132			
1,2-Dichlorobenzene	0.0557	0.0050	mg/kg wet	0.05000		111	72-123			
1,2-Dichloroethane	0.0405	0.0050	mg/kg wet	0.05000		81	68-128			
1,2-Dichloropropane	0.0407	0.0050	mg/kg wet	0.05000		81	73-130			
1,3,5-Trimethylbenzene	0.0566	0.0050	mg/kg wet	0.05000		113	69-128			
1,3-Dichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	71-120			
1,3-Dichloropropane	0.0452	0.0050	mg/kg wet	0.05000		90	75-124			
1,4-Dichlorobenzene	0.0531	0.0050	mg/kg wet	0.05000		106	71-123			
2,2-Dichloropropane	0.0398	0.0050	mg/kg wet	0.05000		80	50-142			
2-Chlorotoluene	0.0577	0.0050	mg/kg wet	0.05000		115	67-124			
4-Chlorotoluene	0.0571	0.0050	mg/kg wet	0.05000		114	71-126			
4-Isopropyltoluene	0.0574	0.0050	mg/kg wet	0.05000		115	68-129			
Acetone	0.0900	0.050	mg/kg wet	0.1000		90	29-198			

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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>LCS (P7J0085-BS1)</b>										
Prepared & Analyzed: 10/05/17										
Benzene	0.0400	0.0030	mg/kg wet	0.05000		80	74-127			
Bromobenzene	0.0579	0.0050	mg/kg wet	0.05000		116	73-125			
Bromochloromethane	0.0383	0.0050	mg/kg wet	0.05000		77	72-134			
Bromodichloromethane	0.0392	0.0050	mg/kg wet	0.05000		78	75-122			
Bromoform	0.0399	0.0050	mg/kg wet	0.05000		80	66-135			
Bromomethane	0.0385	0.010	mg/kg wet	0.05000		77	20-180			
Carbon Tetrachloride	0.0384	0.0050	mg/kg wet	0.05000		77	64-143			
Chlorobenzene	0.0465	0.0050	mg/kg wet	0.05000		93	74-118			
Chloroethane	0.0500	0.010	mg/kg wet	0.05000		100	33-149			
Chloroform	0.0408	0.0050	mg/kg wet	0.05000		82	73-127			
Chloromethane	0.0447	0.0050	mg/kg wet	0.05000		89	45-143			
cis-1,2-Dichloroethylene	0.0408	0.0050	mg/kg wet	0.05000		82	76-134			
cis-1,3-Dichloropropylene	0.0409	0.0050	mg/kg wet	0.05000		82	71-125			
Dibromochloromethane	0.0429	0.0050	mg/kg wet	0.05000		86	73-122			
Dichlorodifluoromethane	0.0504	0.0050	mg/kg wet	0.05000		101	26-146			
Ethylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	74-128			
Isopropyl Ether	0.0402	0.0050	mg/kg wet	0.05000		80	59-159			
Isopropylbenzene (Cumene)	0.0555	0.0050	mg/kg wet	0.05000		111	68-126			
m,p-Xylenes	0.0952	0.010	mg/kg wet	0.1000		95	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0536	0.050	mg/kg wet	0.05000		107	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0423	0.10	mg/kg wet	0.05000		85	63-149			J
Methyl Isobutyl Ketone	0.0438	0.050	mg/kg wet	0.05000		88	57-162			J
Methylene Chloride	0.0387	0.010	mg/kg wet	0.05000		77	74-129			
Methyl-tert-Butyl Ether	0.0416	0.010	mg/kg wet	0.05000		83	70-130			
Naphthalene	0.0526	0.010	mg/kg wet	0.05000		105	57-157			
n-Butylbenzene	0.0581	0.0050	mg/kg wet	0.05000		116	65-135			
n-Propylbenzene	0.0561	0.0050	mg/kg wet	0.05000		112	67-130			
o-Xylene	0.0473	0.0050	mg/kg wet	0.05000		95	74-126			
sec-Butylbenzene	0.0554	0.0050	mg/kg wet	0.05000		111	66-131			
Styrene	0.0501	0.0050	mg/kg wet	0.05000		100	77-121			
tert-Butylbenzene	0.0538	0.0050	mg/kg wet	0.05000		108	67-132			
Tetrachloroethylene	0.0360	0.0050	mg/kg wet	0.05000		72	68-130			
Toluene	0.0427	0.0050	mg/kg wet	0.05000		85	71-129			
trans-1,2-Dichloroethylene	0.0406	0.0050	mg/kg wet	0.05000		81	73-132			
trans-1,3-Dichloropropylene	0.0385	0.0050	mg/kg wet	0.05000		77	68-123			
Trichloroethylene	0.0375	0.0050	mg/kg wet	0.05000		75	75-133			
Trichlorofluoromethane	0.0558	0.0050	mg/kg wet	0.05000		112	44-146			
Vinyl acetate	0.0495	0.025	mg/kg wet	0.05000		99	85-161			
Vinyl chloride	0.0481	0.0050	mg/kg wet	0.05000		96	48-147			
Xylenes, total	0.142	0.015	mg/kg wet	0.1500		95	74-126			
Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50.00		103	70-130			
Surrogate: Dibromofluoromethane	49.9		ug/L	50.00		100	84-123			
Surrogate: Toluene-d8	59.0		ug/L	50.00		118	76-129			

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
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 Greensboro, NC 27407

Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>LCS Dup (P7J0085-BSD1)</b>										
Prepared & Analyzed: 10/05/17										
1,1,1,2-Tetrachloroethane	0.0443	0.0050	mg/kg wet	0.05000		89	72-115	1	20	
1,1,1-Trichloroethane	0.0370	0.0050	mg/kg wet	0.05000		74	67-131	4	20	
1,1,2,2-Tetrachloroethane	0.0546	0.0050	mg/kg wet	0.05000		109	56-126	1	20	
1,1,2-Trichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-133	1	20	
1,1-Dichloroethane	0.0388	0.0050	mg/kg wet	0.05000		78	74-127	2	20	
1,1-Dichloroethylene	0.0409	0.0050	mg/kg wet	0.05000		82	67-149	3	20	
1,1-Dichloropropylene	0.0363	0.0050	mg/kg wet	0.05000		73	71-130	4	20	
1,2,3-Trichlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	68-130	2	20	
1,2,3-Trichloropropane	0.0536	0.0050	mg/kg wet	0.05000		107	60-137	2	20	
1,2,4-Trichlorobenzene	0.0499	0.0050	mg/kg wet	0.05000		100	66-125	2	20	
1,2,4-Trimethylbenzene	0.0556	0.0050	mg/kg wet	0.05000		111	69-129	3	20	
1,2-Dibromoethane	0.0497	0.0050	mg/kg wet	0.05000		99	70-132	1	20	
1,2-Dichlorobenzene	0.0549	0.0050	mg/kg wet	0.05000		110	72-123	1	20	
1,2-Dichloroethane	0.0406	0.0050	mg/kg wet	0.05000		81	68-128	0.05	20	
1,2-Dichloropropane	0.0401	0.0050	mg/kg wet	0.05000		80	73-130	2	20	
1,3,5-Trimethylbenzene	0.0549	0.0050	mg/kg wet	0.05000		110	69-128	3	20	
1,3-Dichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	71-120	3	20	
1,3-Dichloropropane	0.0455	0.0050	mg/kg wet	0.05000		91	75-124	0.6	20	
1,4-Dichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	71-123	0.6	20	
2,2-Dichloropropane	0.0387	0.0050	mg/kg wet	0.05000		77	50-142	3	20	
2-Chlorotoluene	0.0564	0.0050	mg/kg wet	0.05000		113	67-124	2	20	
4-Chlorotoluene	0.0557	0.0050	mg/kg wet	0.05000		111	71-126	3	20	
4-Isopropyltoluene	0.0557	0.0050	mg/kg wet	0.05000		111	68-129	3	20	
Acetone	0.0858	0.050	mg/kg wet	0.1000		86	29-198	5	20	
Benzene	0.0393	0.0030	mg/kg wet	0.05000		79	74-127	2	20	
Bromobenzene	0.0572	0.0050	mg/kg wet	0.05000		114	73-125	1	20	
Bromochloromethane	0.0377	0.0050	mg/kg wet	0.05000		75	72-134	2	20	
Bromodichloromethane	0.0394	0.0050	mg/kg wet	0.05000		79	75-122	0.4	20	
Bromoform	0.0397	0.0050	mg/kg wet	0.05000		79	66-135	0.6	20	
Bromomethane	0.0375	0.010	mg/kg wet	0.05000		75	20-180	3	20	
Carbon Tetrachloride	0.0372	0.0050	mg/kg wet	0.05000		74	64-143	3	20	
Chlorobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	74-118	2	20	
Chloroethane	0.0482	0.010	mg/kg wet	0.05000		96	33-149	3	20	
Chloroform	0.0402	0.0050	mg/kg wet	0.05000		80	73-127	2	20	
Chloromethane	0.0427	0.0050	mg/kg wet	0.05000		85	45-143	5	20	
cis-1,2-Dichloroethylene	0.0403	0.0050	mg/kg wet	0.05000		81	76-134	1	20	
cis-1,3-Dichloropropylene	0.0405	0.0050	mg/kg wet	0.05000		81	71-125	1	20	
Dibromochloromethane	0.0440	0.0050	mg/kg wet	0.05000		88	73-122	2	20	
Dichlorodifluoromethane	0.0482	0.0050	mg/kg wet	0.05000		96	26-146	4	20	
Ethylbenzene	0.0458	0.0050	mg/kg wet	0.05000		92	74-128	2	20	
Isopropyl Ether	0.0400	0.0050	mg/kg wet	0.05000		80	59-159	0.3	20	
Isopropylbenzene (Cumene)	0.0540	0.0050	mg/kg wet	0.05000		108	68-126	3	20	
m,p-Xylenes	0.0928	0.010	mg/kg wet	0.1000		93	75-124	3	20	
Methyl Butyl Ketone (2-Hexanone)	0.0520	0.050	mg/kg wet	0.05000		104	61-157	3	20	
Methyl Ethyl Ketone (2-Butanone)	0.0404	0.10	mg/kg wet	0.05000		81	63-149	5	20	J
Methyl Isobutyl Ketone	0.0439	0.050	mg/kg wet	0.05000		88	57-162	0.1	20	J

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Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>LCS Dup (P7J0085-BSD1)</b>										
					Prepared & Analyzed: 10/05/17					
Methylene Chloride	0.0382	0.010	mg/kg wet	0.05000		76	74-129	1	20	
Methyl-tert-Butyl Ether	0.0428	0.010	mg/kg wet	0.05000		86	70-130	3	20	
Naphthalene	0.0526	0.010	mg/kg wet	0.05000		105	57-157	0	20	
n-Butylbenzene	0.0551	0.0050	mg/kg wet	0.05000		110	65-135	5	20	
n-Propylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	67-130	3	20	
o-Xylene	0.0462	0.0050	mg/kg wet	0.05000		92	74-126	2	20	
sec-Butylbenzene	0.0534	0.0050	mg/kg wet	0.05000		107	66-131	4	20	
Styrene	0.0489	0.0050	mg/kg wet	0.05000		98	77-121	2	20	
tert-Butylbenzene	0.0522	0.0050	mg/kg wet	0.05000		104	67-132	3	20	
Tetrachloroethylene	0.0348	0.0050	mg/kg wet	0.05000		70	68-130	3	20	
Toluene	0.0419	0.0050	mg/kg wet	0.05000		84	71-129	2	20	
trans-1,2-Dichloroethylene	0.0393	0.0050	mg/kg wet	0.05000		79	73-132	3	20	
trans-1,3-Dichloropropylene	0.0386	0.0050	mg/kg wet	0.05000		77	68-123	0.4	20	
Trichloroethylene	0.0365	0.0050	mg/kg wet	0.05000		73	75-133	3	20	L2
Trichlorofluoromethane	0.0531	0.0050	mg/kg wet	0.05000		106	44-146	5	20	
Vinyl acetate	0.0510	0.025	mg/kg wet	0.05000		102	85-161	3	20	
Vinyl chloride	0.0462	0.0050	mg/kg wet	0.05000		92	48-147	4	20	
Xylenes, total	0.139	0.015	mg/kg wet	0.1500		93	74-126	2	20	
Surrogate: 4-Bromofluorobenzene	52.1		ug/L	50.00		104	70-130			
Surrogate: Dibromofluoromethane	49.7		ug/L	50.00		99	84-123			
Surrogate: Toluene-d8	58.3		ug/L	50.00		117	76-129			
<b>Matrix Spike (P7J0085-MS1)</b>										
					Source: 7100008-01 Prepared & Analyzed: 10/05/17					
1,1,1,2-Tetrachloroethane	0.0546	0.0065	mg/kg dry	0.06462	BRL	85	60-120			
1,1,1-Trichloroethane	0.0473	0.0065	mg/kg dry	0.06462	BRL	73	52-139			
1,1,2,2-Tetrachloroethane	0.0593	0.0065	mg/kg dry	0.06462	BRL	92	39-135			
1,1,2-Trichloroethane	0.0538	0.0065	mg/kg dry	0.06462	BRL	83	44-140			
1,1-Dichloroethane	0.0498	0.0065	mg/kg dry	0.06462	BRL	77	59-137			
1,1-Dichloroethylene	0.0525	0.0065	mg/kg dry	0.06462	BRL	81	54-162			
1,1-Dichloropropylene	0.0455	0.0065	mg/kg dry	0.06462	BRL	70	55-137			
1,2,3-Trichlorobenzene	0.0555	0.0065	mg/kg dry	0.06462	BRL	86	34-120			
1,2,3-Trichloropropane	0.0582	0.0065	mg/kg dry	0.06462	BRL	90	45-139			
1,2,4-Trichlorobenzene	0.0543	0.0065	mg/kg dry	0.06462	BRL	84	35-116			
1,2,4-Trimethylbenzene	0.0666	0.0065	mg/kg dry	0.06462	BRL	103	38-142			
1,2-Dibromoethane	0.0569	0.0065	mg/kg dry	0.06462	BRL	88	49-132			
1,2-Dichlorobenzene	0.0633	0.0065	mg/kg dry	0.06462	BRL	98	42-130			
1,2-Dichloroethane	0.0483	0.0065	mg/kg dry	0.06462	BRL	75	51-131			
1,2-Dichloropropane	0.0494	0.0065	mg/kg dry	0.06462	BRL	76	55-138			
1,3,5-Trimethylbenzene	0.0667	0.0065	mg/kg dry	0.06462	BRL	103	44-140			
1,3-Dichlorobenzene	0.0616	0.0065	mg/kg dry	0.06462	BRL	95	41-129			
1,3-Dichloropropane	0.0534	0.0065	mg/kg dry	0.06462	BRL	83	53-129			
1,4-Dichlorobenzene	0.0608	0.0065	mg/kg dry	0.06462	BRL	94	44-134			
2,2-Dichloropropane	0.0467	0.0065	mg/kg dry	0.06462	BRL	72	30-147			
2-Chlorotoluene	0.0677	0.0065	mg/kg dry	0.06462	BRL	105	46-132			
4-Chlorotoluene	0.0664	0.0065	mg/kg dry	0.06462	BRL	103	44-135			
4-Isopropyltoluene	0.0652	0.0065	mg/kg dry	0.06462	BRL	101	32-144			
Acetone	0.0880	0.065	mg/kg dry	0.1292	0.0682	15	34-143			M

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ECS Carolinas, LLP (Greensboro)  
 Attn: Randy Cavallier  
 4811 Koger Blvd.  
 Greensboro, NC 27407

Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>Matrix Spike (P7J0085-MS1)</b>	<b>Source: 7100008-01</b>			<b>Prepared &amp; Analyzed: 10/05/17</b>						
Benzene	0.0500	0.0039	mg/kg dry	0.06462	BRL	77	60-135			
Bromobenzene	0.0680	0.0065	mg/kg dry	0.06462	BRL	105	45-135			
Bromochloromethane	0.0467	0.0065	mg/kg dry	0.06462	BRL	72	55-136			
Bromodichloromethane	0.0491	0.0065	mg/kg dry	0.06462	BRL	76	55-127			
Bromoform	0.0486	0.0065	mg/kg dry	0.06462	BRL	75	40-136			
Bromomethane	0.0144	0.013	mg/kg dry	0.06462	BRL	22	30-137			M
Carbon Tetrachloride	0.0478	0.0065	mg/kg dry	0.06462	BRL	74	48-153			
Chlorobenzene	0.0561	0.0065	mg/kg dry	0.06462	BRL	87	57-125			
Chloroethane	0.0714	0.013	mg/kg dry	0.06462	BRL	110	16-177			
Chloroform	0.0505	0.0065	mg/kg dry	0.06462	BRL	78	56-137			
Chloromethane	0.0271	0.0065	mg/kg dry	0.06462	BRL	42	40-145			
cis-1,2-Dichloroethylene	0.0504	0.0065	mg/kg dry	0.06462	BRL	78	58-140			
cis-1,3-Dichloropropylene	0.0483	0.0065	mg/kg dry	0.06462	BRL	75	42-135			
Dibromochloromethane	0.0536	0.0065	mg/kg dry	0.06462	BRL	83	49-127			
Dichlorodifluoromethane	0.0599	0.0065	mg/kg dry	0.06462	BRL	93	25-151			
Ethylbenzene	0.0565	0.0065	mg/kg dry	0.06462	BRL	87	44-144			
Isopropyl Ether	0.0491	0.0065	mg/kg dry	0.06462	BRL	76	51-155			
Isopropylbenzene (Cumene)	0.0659	0.0065	mg/kg dry	0.06462	BRL	102	41-140			
m,p-Xylenes	0.115	0.013	mg/kg dry	0.1292	BRL	89	36-148			
Methyl Butyl Ketone (2-Hexanone)	0.0518	0.065	mg/kg dry	0.06462	BRL	80	30-147			J
Methyl Ethyl Ketone (2-Butanone)	0.0404	0.13	mg/kg dry	0.06462	BRL	63	24-160			J
Methyl Isobutyl Ketone	0.0461	0.065	mg/kg dry	0.06462	BRL	71	25-163			J
Methylene Chloride	0.0492	0.013	mg/kg dry	0.06462	BRL	76	53-144			
Methyl-tert-Butyl Ether	0.0489	0.013	mg/kg dry	0.06462	BRL	76	49-135			
Naphthalene	0.0561	0.013	mg/kg dry	0.06462	BRL	87	32-127			
n-Butylbenzene	0.0643	0.0065	mg/kg dry	0.06462	BRL	99	23-148			
n-Propylbenzene	0.0649	0.0065	mg/kg dry	0.06462	BRL	100	35-144			
o-Xylene	0.0565	0.0065	mg/kg dry	0.06462	BRL	87	43-143			
sec-Butylbenzene	0.0644	0.0065	mg/kg dry	0.06462	BRL	100	34-144			
Styrene	0.0596	0.0065	mg/kg dry	0.06462	BRL	92	42-132			
tert-Butylbenzene	0.0633	0.0065	mg/kg dry	0.06462	BRL	98	36-150			
Tetrachloroethylene	0.0421	0.0065	mg/kg dry	0.06462	BRL	65	47-142			
Toluene	0.0532	0.0065	mg/kg dry	0.06462	BRL	82	57-135			
trans-1,2-Dichloroethylene	0.0508	0.0065	mg/kg dry	0.06462	BRL	79	58-141			
trans-1,3-Dichloropropylene	0.0450	0.0065	mg/kg dry	0.06462	BRL	70	41-124			
Trichloroethylene	0.0460	0.0065	mg/kg dry	0.06462	BRL	71	38-164			
Trichlorofluoromethane	0.0655	0.0065	mg/kg dry	0.06462	BRL	101	30-157			
Vinyl acetate	0.0342	0.032	mg/kg dry	0.06462	BRL	53	61-154			M
Vinyl chloride	0.0526	0.0065	mg/kg dry	0.06462	BRL	81	40-156			
Xylenes, total	0.171	0.019	mg/kg dry	0.1939	BRL	88	36-148			
Surrogate: 4-Bromofluorobenzene	50.8		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	49.9		ug/L	50.00		100	84-123			
Surrogate: Toluene-d8	57.7		ug/L	50.00		115	76-129			

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Project: NCDOT Highpoint Pump Station  
U-2412A  
Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>Matrix Spike Dup (P7J0085-MSD1)</b>										
		<b>Source: 7100008-01</b>			<b>Prepared &amp; Analyzed: 10/05/17</b>					
1,1,1,2-Tetrachloroethane	0.0507	0.0064	mg/kg dry	0.06383	BRL	79	60-120	7	15	
1,1,1-Trichloroethane	0.0432	0.0064	mg/kg dry	0.06383	BRL	68	52-139	9	21	
1,1,2,2-Tetrachloroethane	0.0564	0.0064	mg/kg dry	0.06383	BRL	88	39-135	5	22	
1,1,2-Trichloroethane	0.0505	0.0064	mg/kg dry	0.06383	BRL	79	44-140	6	21	
1,1-Dichloroethane	0.0463	0.0064	mg/kg dry	0.06383	BRL	73	59-137	7	21	
1,1-Dichloroethylene	0.0482	0.0064	mg/kg dry	0.06383	BRL	76	54-162	8	22	
1,1-Dichloropropylene	0.0418	0.0064	mg/kg dry	0.06383	BRL	65	55-137	9	19	
1,2,3-Trichlorobenzene	0.0517	0.0064	mg/kg dry	0.06383	BRL	81	34-120	7	41	
1,2,3-Trichloropropane	0.0561	0.0064	mg/kg dry	0.06383	BRL	88	45-139	4	25	
1,2,4-Trichlorobenzene	0.0502	0.0064	mg/kg dry	0.06383	BRL	79	35-116	8	62	
1,2,4-Trimethylbenzene	0.0610	0.0064	mg/kg dry	0.06383	BRL	96	38-142	9	24	
1,2-Dibromoethane	0.0529	0.0064	mg/kg dry	0.06383	BRL	83	49-132	7	15	
1,2-Dichlorobenzene	0.0595	0.0064	mg/kg dry	0.06383	BRL	93	42-130	6	21	
1,2-Dichloroethane	0.0454	0.0064	mg/kg dry	0.06383	BRL	71	51-131	6	13	
1,2-Dichloropropane	0.0464	0.0064	mg/kg dry	0.06383	BRL	73	55-138	6	16	
1,3,5-Trimethylbenzene	0.0605	0.0064	mg/kg dry	0.06383	BRL	95	44-140	10	29	
1,3-Dichlorobenzene	0.0573	0.0064	mg/kg dry	0.06383	BRL	90	41-129	7	24	
1,3-Dichloropropane	0.0501	0.0064	mg/kg dry	0.06383	BRL	78	53-129	6	15	
1,4-Dichlorobenzene	0.0559	0.0064	mg/kg dry	0.06383	BRL	88	44-134	8	21	
2,2-Dichloropropane	0.0430	0.0064	mg/kg dry	0.06383	BRL	67	30-147	8	20	
2-Chlorotoluene	0.0624	0.0064	mg/kg dry	0.06383	BRL	98	46-132	8	29	
4-Chlorotoluene	0.0609	0.0064	mg/kg dry	0.06383	BRL	95	44-135	9	23	
4-Isopropyltoluene	0.0601	0.0064	mg/kg dry	0.06383	BRL	94	32-144	8	22	
Acetone	0.0860	0.064	mg/kg dry	0.1277	0.0682	14	34-143	2	49	M
Benzene	0.0464	0.0038	mg/kg dry	0.06383	BRL	73	60-135	7	20	
Bromobenzene	0.0629	0.0064	mg/kg dry	0.06383	BRL	99	45-135	8	25	
Bromochloromethane	0.0432	0.0064	mg/kg dry	0.06383	BRL	68	55-136	8	18	
Bromodichloromethane	0.0458	0.0064	mg/kg dry	0.06383	BRL	72	55-127	7	17	
Bromoform	0.0468	0.0064	mg/kg dry	0.06383	BRL	73	40-136	4	35	
Bromomethane	0.0202	0.013	mg/kg dry	0.06383	BRL	32	30-137	34	30	D
Carbon Tetrachloride	0.0443	0.0064	mg/kg dry	0.06383	BRL	69	48-153	8	23	
Chlorobenzene	0.0514	0.0064	mg/kg dry	0.06383	BRL	81	57-125	9	14	
Chloroethane	0.0661	0.013	mg/kg dry	0.06383	BRL	104	16-177	8	47	
Chloroform	0.0469	0.0064	mg/kg dry	0.06383	BRL	74	56-137	7	18	
Chloromethane	0.0299	0.0064	mg/kg dry	0.06383	BRL	47	40-145	10	26	
cis-1,2-Dichloroethylene	0.0469	0.0064	mg/kg dry	0.06383	BRL	73	58-140	7	28	
cis-1,3-Dichloropropylene	0.0455	0.0064	mg/kg dry	0.06383	BRL	71	42-135	6	32	
Dibromochloromethane	0.0508	0.0064	mg/kg dry	0.06383	BRL	80	49-127	5	24	
Dichlorodifluoromethane	0.0551	0.0064	mg/kg dry	0.06383	BRL	86	25-151	8	37	
Ethylbenzene	0.0521	0.0064	mg/kg dry	0.06383	BRL	82	44-144	8	19	
Isopropyl Ether	0.0456	0.0064	mg/kg dry	0.06383	BRL	71	51-155	7	13	
Isopropylbenzene (Cumene)	0.0603	0.0064	mg/kg dry	0.06383	BRL	94	41-140	9	27	
m,p-Xylenes	0.106	0.013	mg/kg dry	0.1277	BRL	83	36-148	8	20	
Methyl Butyl Ketone (2-Hexanone)	0.0496	0.064	mg/kg dry	0.06383	BRL	78	30-147	4	42	J
Methyl Ethyl Ketone (2-Butanone)	0.0384	0.13	mg/kg dry	0.06383	BRL	60	24-160	5	42	J
Methyl Isobutyl Ketone	0.0434	0.064	mg/kg dry	0.06383	BRL	68	25-163	6	44	J

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Project: NCDOT Highpoint Pump Station  
 U-2412A  
 Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0085 - 5035</b>										
<b>Matrix Spike Dup (P7J0085-MSD1)</b>		<b>Source: 7100008-01</b>			<b>Prepared &amp; Analyzed: 10/05/17</b>					
Methylene Chloride	0.0458	0.013	mg/kg dry	0.06383	BRL	72	53-144	7	14	
Methyl-tert-Butyl Ether	0.0481	0.013	mg/kg dry	0.06383	BRL	75	49-135	2	22	
Naphthalene	0.0535	0.013	mg/kg dry	0.06383	BRL	84	32-127	5	44	
n-Butylbenzene	0.0587	0.0064	mg/kg dry	0.06383	BRL	92	23-148	9	39	
n-Propylbenzene	0.0598	0.0064	mg/kg dry	0.06383	BRL	94	35-144	8	27	
o-Xylene	0.0522	0.0064	mg/kg dry	0.06383	BRL	82	43-143	8	17	
sec-Butylbenzene	0.0595	0.0064	mg/kg dry	0.06383	BRL	93	34-144	8	28	
Styrene	0.0551	0.0064	mg/kg dry	0.06383	BRL	86	42-132	8	28	
tert-Butylbenzene	0.0583	0.0064	mg/kg dry	0.06383	BRL	91	36-150	8	29	
Tetrachloroethylene	0.0393	0.0064	mg/kg dry	0.06383	BRL	62	47-142	7	26	
Toluene	0.0488	0.0064	mg/kg dry	0.06383	BRL	76	57-135	9	22	
trans-1,2-Dichloroethylene	0.0464	0.0064	mg/kg dry	0.06383	BRL	73	58-141	9	18	
trans-1,3-Dichloropropylene	0.0421	0.0064	mg/kg dry	0.06383	BRL	66	41-124	7	20	
Trichloroethylene	0.0422	0.0064	mg/kg dry	0.06383	BRL	66	38-164	9	18	
Trichlorofluoromethane	0.0607	0.0064	mg/kg dry	0.06383	BRL	95	30-157	8	27	
Vinyl acetate	0.0284	0.032	mg/kg dry	0.06383	BRL	44	61-154	19	35	M, J
Vinyl chloride	0.0510	0.0064	mg/kg dry	0.06383	BRL	80	40-156	3	35	
Xylenes, total	0.158	0.019	mg/kg dry	0.1915	BRL	82	36-148	8	20	
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50.00		101	70-130			
Surrogate: Dibromofluoromethane	50.4		ug/L	50.00		101	84-123			
Surrogate: Toluene-d8	58.0		ug/L	50.00		116	76-129			

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Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
Time Submitted: 9/29/2017 12:45:00PM

**Total Metals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7J0025 - 3050B**

**Blank (P7J0025-BLK1)**

Prepared: 10/03/17 Analyzed: 10/04/17

Arsenic	BRL	0.25	mg/kg wet							
Barium	BRL	0.50	mg/kg wet							
Cadmium	BRL	0.25	mg/kg wet							
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
Selenium	BRL	0.50	mg/kg wet							
Silver	BRL	0.25	mg/kg wet							

**LCS (P7J0025-BS1)**

Prepared: 10/03/17 Analyzed: 10/04/17

Arsenic	26.1	0.25	mg/kg wet	25.00		104	80-120			
Barium	27.0	0.50	mg/kg wet	25.00		108	80-120			
Cadmium	25.6	0.25	mg/kg wet	25.00		102	80-120			
Chromium	26.5	0.25	mg/kg wet	25.00		106	80-120			
Lead	25.7	0.25	mg/kg wet	25.00		103	80-120			
Selenium	25.0	0.50	mg/kg wet	25.00		100	80-120			
Silver	10.7	0.25	mg/kg wet	10.00		107	80-120			

**Batch P7J0098 - 7471B**

**Blank (P7J0098-BLK1)**

Prepared & Analyzed: 10/06/17

Mercury	BRL	0.020	mg/kg wet							
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**LCS (P7J0098-BS1)**

Prepared & Analyzed: 10/06/17

Mercury	0.446	0.020	mg/kg wet	0.4167		107	80-120			
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**Batch P7J0099 - 7471B**

**Blank (P7J0099-BLK1)**

Prepared & Analyzed: 10/06/17

Mercury	BRL	0.020	mg/kg wet							
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Prism Work Order: 7100008  
 Time Submitted: 9/29/2017 12:45:00PM

**Total Metals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0099 - 7471B</b>										
<b>LCS (P7J0099-BS1)</b>				Prepared & Analyzed: 10/06/17						
Mercury	0.492	0.020	mg/kg wet	0.4167		118	80-120			
<b>Matrix Spike (P7J0099-MS1)</b>				Source: 7100008-07		Prepared & Analyzed: 10/06/17				
Mercury	0.551	0.025	mg/kg dry	0.5141	0.00606	106	80-120			
<b>Matrix Spike Dup (P7J0099-MSD1)</b>				Source: 7100008-07		Prepared & Analyzed: 10/06/17				
Mercury	0.547	0.025	mg/kg dry	0.5141	0.00606	105	80-120	0.6	20	
<b>Batch P7J0127 - 7471B</b>										
<b>Blank (P7J0127-BLK1)</b>				Prepared & Analyzed: 10/09/17						
Mercury	BRL	0.020	mg/kg wet							
<b>LCS (P7J0127-BS1)</b>				Prepared & Analyzed: 10/09/17						
Mercury	0.434	0.020	mg/kg wet	0.4167		104	80-120			
<b>Matrix Spike (P7J0127-MS1)</b>				Source: 7100008-12		Prepared & Analyzed: 10/09/17				
Mercury	0.934	0.027	mg/kg dry	0.5664	0.375	99	80-120			
<b>Matrix Spike Dup (P7J0127-MSD1)</b>				Source: 7100008-12		Prepared & Analyzed: 10/09/17				
Mercury	0.967	0.029	mg/kg dry	0.5962	0.375	99	80-120	3	20	

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Project No: WBS # 34802.1.1

Prism Work Order: 7100008  
Time Submitted: 9/29/2017 12:45:00PM

**General Chemistry Parameters - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7J0078 - Solids, Dry Weight</b>										
<b>Duplicate (P7J0078-DUP1)</b>		<b>Source: 7100008-06</b>			<b>Prepared &amp; Analyzed: 10/04/17</b>					
% Solids	83.5	0.100	% by Weight		84.4			1	20	



## Sample Extraction Data

### Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
7100008-01	P7J0078	30 g	30 g	10/04/17 15:00
7100008-02	P7J0078	30 g	30 g	10/04/17 15:00
7100008-03	P7J0078	30 g	30 g	10/04/17 15:00
7100008-04	P7J0078	30 g	30 g	10/04/17 15:00
7100008-05	P7J0078	30 g	30 g	10/04/17 15:00
7100008-06	P7J0078	30 g	30 g	10/04/17 15:00
7100008-07	P7J0078	30 g	30 g	10/04/17 15:00
7100008-08	P7J0078	30 g	30 g	10/04/17 15:00
7100008-09	P7J0078	30 g	30 g	10/04/17 15:00
7100008-10	P7J0078	30 g	30 g	10/04/17 15:00
7100008-11	P7J0078	30 g	30 g	10/04/17 15:00
7100008-12	P7J0078	30 g	30 g	10/04/17 15:00
7100008-13	P7J0078	30 g	30 g	10/04/17 15:00
7100008-14	P7J0078	30 g	30 g	10/04/17 15:00
7100008-15	P7J0078	30 g	30 g	10/04/17 15:00
7100008-16	P7J0078	30 g	30 g	10/04/17 15:00
7100008-17	P7J0078	30 g	30 g	10/04/17 15:00

### Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
7100008-01	P7J0025	2.44 g	50 mL	10/03/17 8:10
7100008-02	P7J0025	2.31 g	50 mL	10/03/17 8:10
7100008-02	P7J0025	2.31 g	50 mL	10/03/17 8:10
7100008-03	P7J0025	2.35 g	50 mL	10/03/17 8:10
7100008-04	P7J0025	2.06 g	50 mL	10/03/17 8:10
7100008-05	P7J0025	2.27 g	50 mL	10/03/17 8:10
7100008-06	P7J0025	2.2 g	50 mL	10/03/17 8:10
7100008-07	P7J0025	2.32 g	50 mL	10/03/17 8:10
7100008-07	P7J0025	2.32 g	50 mL	10/03/17 8:10
7100008-08	P7J0025	2.12 g	50 mL	10/03/17 8:10
7100008-09	P7J0025	2.45 g	50 mL	10/03/17 8:10
7100008-10	P7J0025	2.17 g	50 mL	10/03/17 8:10
7100008-11	P7J0025	2.01 g	50 mL	10/03/17 8:10
7100008-12	P7J0025	2.43 g	50 mL	10/03/17 8:10
7100008-13	P7J0025	2.29 g	50 mL	10/03/17 8:10
7100008-14	P7J0025	2.48 g	50 mL	10/03/17 8:10
7100008-15	P7J0025	2.37 g	50 mL	10/03/17 8:10
7100008-16	P7J0025	2.49 g	50 mL	10/03/17 8:10
7100008-17	P7J0025	2.28 g	50 mL	10/03/17 8:10
7100008-17	P7J0025	2.28 g	50 mL	10/03/17 8:10

### Prep Method: 7471B

Lab Number	Batch	Initial	Final	Date/Time
7100008-01	P7J0098	0.64 g	50 mL	10/06/17 8:52
7100008-02	P7J0098	0.59 g	50 mL	10/06/17 8:52
7100008-03	P7J0098	0.65 g	50 mL	10/06/17 8:52
7100008-04	P7J0098	0.61 g	50 mL	10/06/17 8:52
7100008-05	P7J0098	0.61 g	50 mL	10/06/17 8:52
7100008-06	P7J0098	0.57 g	50 mL	10/06/17 8:52
7100008-07	P7J0099	0.6 g	50 mL	10/06/17 8:52
7100008-08	P7J0099	0.57 g	50 mL	10/06/17 8:52
7100008-09	P7J0099	0.55 g	50 mL	10/06/17 8:52
7100008-10	P7J0099	0.57 g	50 mL	10/06/17 8:52
7100008-11	P7J0099	0.59 g	50 mL	10/06/17 8:52
7100008-12	P7J0127	0.59 g	50 mL	10/09/17 8:10

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### Sample Extraction Data

**Prep Method: 7471B**

Lab Number	Batch	Initial	Final	Date/Time
7100008-13	P7J0127	0.64 g	50 mL	10/09/17 8:10
7100008-14	P7J0127	0.65 g	50 mL	10/09/17 8:10
7100008-15	P7J0127	0.57 g	50 mL	10/09/17 8:10
7100008-16	P7J0127	0.65 g	50 mL	10/09/17 8:10
7100008-17	P7J0127	0.65 g	50 mL	10/09/17 8:10

**Prep Method: 5035**

Lab Number	Batch	Initial	Final	Date/Time
7100008-01	P7J0085	6.78 g	5 mL	10/05/17 9:35
7100008-02	P7J0085	7.12 g	5 mL	10/05/17 9:35
7100008-03	P7J0085	7.35 g	5 mL	10/05/17 9:35
7100008-04	P7J0085	6.15 g	5 mL	10/05/17 9:35
7100008-06	P7J0085	5.37 g	5 mL	10/05/17 9:35
7100008-07	P7J0085	7.13 g	5 mL	10/05/17 9:35
7100008-08	P7J0085	6.12 g	5 mL	10/05/17 9:35
7100008-10	P7J0085	6.64 g	5 mL	10/05/17 9:35
7100008-11	P7J0085	7.27 g	5 mL	10/05/17 9:35
7100008-12	P7J0085	4.21 g	5 mL	10/05/17 9:35
7100008-13	P7J0085	4.98 g	5 mL	10/05/17 9:35
7100008-14	P7J0085	6.7 g	5 mL	10/05/17 9:35
7100008-15	P7J0085	6.49 g	5 mL	10/05/17 9:35
7100008-16	P7J0085	7.2 g	5 mL	10/05/17 9:35
7100008-17	P7J0085	7.63 g	5 mL	10/05/17 9:35



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217  
Phone 704/529-6364 • Fax: 704/525-0409

Client Company Name: FCS  
Report To/Contact Name: Randy Cox  
Reporting Address: 1811 Roper Blvd  
Crosslake NC 27407  
Phone: 336 852 7157 Fax (Yes) (No):  
Email Address: randy.cox@ecolab.com  
EDD Type: PDF  Excel  Other  
Site Location Name: Dish Point  
Site Location Physical Address: Pump Station

# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: \_\_\_\_\_

Project Name: NIDOT  
Short Hold Analysis: (Yes)  (No)  UST Project: (Yes)  (No)   
\*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements  
Invoice To: Sen  
Address: \_\_\_\_\_

Purchase Order No./Billing Reference  
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMP: Therm ID: <u>187-7</u> Observed: <u>3.0°C</u> / Corr: <u>2.5°C</u>			

Page 51 of 52

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			PRESERVATIVES	ANALYSIS REQUESTED				REMARKS	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE								
GP-1	9/26/17	955	soil	CG, VOA	5	40ml 4oz	Soda neck Bottle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					01
GP-2		1015						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					02
GP-3		1030						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					03
GP-4		1108						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					04
BG-1		1115			1	4oz		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					05
GP-5		1133			5	40ml 4oz		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					06
GP-6		1155						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					07
GP-7		1215						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					08
BG-2		1225			1	4oz		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					09
GP-8		1240			5	40ml		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					10

Sampler's Signature \_\_\_\_\_ Sampled By (Print Name) \_\_\_\_\_ Affiliation \_\_\_\_\_

**PRESS DOWN FIRMLY - 3 COPIES**

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 <u>9-29-17</u>	Military/Hours <u>1055</u>
Relinquished By: (Signature) _____	Received By: (Signature) _____	Date	
Relinquished By: (Signature) _____	Received For Prism Laboratories By: _____	Date <u>9-29-17</u>	1245
Method of Shipment: <b>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.</b>		COC Group No. <u>7100008</u>	
<input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand-delivered <input type="checkbox"/> Prism Field Service <input type="checkbox"/> Other			

Additional Comments:

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

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

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

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

**SEE REVERSE FOR TERMS & CONDITIONS**

ORIGINAL



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217  
Phone 704/529-6364 • Fax: 704/525-0409

Client Company Name: ECS  
Report To/Contact Name: Ruby Coville  
Reporting Address: \_\_\_\_\_

Phone: 336 852 7152 Fax (Yes) (No): \_\_\_\_\_  
Email Address: \_\_\_\_\_  
EDD Type: PDF  Excel  Other   
Site Location Name: High Point  
Site Location Physical Address: Pump Station

# CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: \_\_\_\_\_

Project Name: WCDOT  
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: Jan  
Address: \_\_\_\_\_

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMP: Therm ID: <u>307-1</u> Observed: <u>3.0</u> °C / Corr: <u>2.5</u> °C			

Page 52 of 52

Purchase Order No./Billing Reference \_\_\_\_\_  
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)

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			PRESERVATIVES	ANALYSIS REQUESTED	REMARKS	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE					
GP-9	9/26/17	1255	SOIL	4oz VOA	5		W-823-merA	6262			11
GP-10		1314									12
GP-11		1335									13
GP-12		1405									14
GP-13		1424									15
GP-14		1530									16
GP-15		1615									17

Sampler's Signature \_\_\_\_\_ Sampled By (Print Name) \_\_\_\_\_ Affiliation \_\_\_\_\_

PRESS DOWN FIRMLY - 3 COPIES

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) <u>[Signature]</u>	Date <u>9-29-17</u>	Military/Hours <u>1055</u>
Relinquished By: (Signature) _____	Received By: (Signature) _____	Date _____	
Relinquished By: (Signature) <u>[Signature]</u>	Received For Prism Laboratories By: <u>[Signature]</u>	Date <u>9-29-17</u>	<u>1245</u>

Method of Shipment:  Fed Ex  UPS  Hand-delivered  Prism Field Service  Other \_\_\_\_\_

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.

COC Group No. 7100008

Additional Comments:

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

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

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL