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July 5, 2016

Ms. Janet K. Macdonald, P.G.
Inactive Hazardous Sites Branch - REC Program
NCDEQ - Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RE: Second Quarter 2016 Progress Report
(Former) Affordable Auto
500 West Franklin Boulevard
Gastonia, North Carolina
NCDEQ No. **NONCD0002276**
EXCEL Project No. **201098**

Dear Ms. Macdonald:

On behalf of Smith Enterprises (SME), Excel Civil & Environmental Associates, PLLC (Excel) is pleased to submit a copy of the Second Quarter 2016 Progress Report for the above referenced Site.

If you have any questions after review of this report, please feel free to contact me at (704) 853-0800 or by email at mstanforth@excelengr.com.

Sincerely yours,
EXCEL CIVIL & ENVIRONMENTAL ASSOCIATES, PLLC

M.T. Stanforth, P.E., DEE
Principal Engineer

p.c. *Tim Fridley – Smith Enterprises, Gastonia-NC*

SECOND QUARTER 2016 REPORT

(FORMER) AFFORDABLE AUTO
500 WEST FRANKLIN BOULEVARD
GASTONIA, GASTON COUNTY, NORTH CAROLINA

NCDEQ INCIDENT NO. **NONCD0002276**
EXCEL PROJECT NO. **201098**

LATITUDE = 35° 15'44.9358" / LONGITUDE = (-) 81°11'26.1056"

Date submitted

July 5, 2016

Prepared for

Mr. Tim Fridley
Smith Enterprises
245 West Garrison Boulevard, Suite G
Gastonia, North Carolina 28052

Prepared by

Excel Civil & Environmental Associates, PLLC
625 Huntsman Court
Gastonia, North Carolina 28054
NC License No. P-0129

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Excel Civil & Environmental Associates
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NORTH CAROLINA PROFESSIONAL SEAL 16029 ENGINEER MICHAEL TRENT STANFORTH 7/5/16

Nathan S. Simmons
Environmental Scientist

Michael T. Stanforth, P.E., DEE
Principal Engineer

TABLE OF CONTENTS

SECTION NO. PAGE NO.

TABLE OF CONTENTS…… ……1

1.0 INTRODUCTION…… 2
1.1 SITE DESCRIPTION…… 2
1.2 CURRENT AND FORMER OPERATIONS……2
1.3 NATURE AND EXTENT OF CONTAMINATION…… 2

2.0 FIELD ACTIVITIES…… 4
2.1 SURVEY…… 5

3.0 PERFORMANCE AND MONITORING ACTIVITIES…… 5

4.0 CONCLUSIONS AND RECOMMENDATIONS…… 5

5.0 PROJECT CERTIFICATIONS…… 6

6.0 PROJECT SCHEDULE…… 6

7.0 LIMITATIONS…… 6

LIST OF TABLES

TABLE 1 MONITORING WELL CONSTRUCTION DATA AND LIQUID LEVEL DATA
TABLE 2 GROUNDWATER FIELD MEASUREMENTS
TABLE 3 GROUNDWATER SUMMARY DATA – APRIL 2016
TABLE 4 HISTORICAL GROUNDWATER SUMMARY DATA

LIST OF FIGURES

FIGURE 1 SITE VICINITY MAP
FIGURE 2 SITE PLAN
FIGURE 3 WATER TABLE CONTOUR MAP
FIGURE 4 GROUNDWATER CONSTITUENTS MAP
FIGURE 5 PCE IN GROUNDWATER MAP

LIST OF APPENDICES

APPENDIX A PLAN CERTIFICATIONS
APPENDIX B GROUNDWATER SAMPLING FORMS
APPENDIX C WELL CONSTRUCTION RECORDS
APPENDIX D LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

1.0 INTRODUCTION

On behalf of Smith Enterprises (SME), Excel Civil and Environmental Associates, PLLC (Excel) has prepared this *Quarterly Project Status Report* and is herein submitted to the North Carolina Department of Environmental Quality (NCDEQ) – Registered Environmental Consultant (REC) Program to document remedial activities conducted at the former Affordable Auto facility located at 500 West Franklin Boulevard in Gastonia, Gaston County, North Carolina (**Figure 1**). This report describes the installation of one monitoring well as discussed in the 2015 fourth quarter project status report, as well as the quarterly performance monitoring event.

1.1 SITE DESCRIPTION

The facility is located on the northwest corner of the intersection of West Franklin Boulevard and South Whitesides Drive inside the incorporated limits of Gastonia, North Carolina. The facility is located on one (1) parcel of land totaling approximately 0.31-acres in size and being utilized as an active automobile repair facility. East Franklin Boulevard tracks in an east-west direction along the southern perimeter of the subject property with commercial properties located beyond. Bounding the property to the north and west are commercial and industrial properties and to the east is South Whitesides Drive tracking in a north-south direction along the eastern perimeter. Located east beyond South Whitesides Drive are commercial/industrial properties. At the time of this report, structures located onsite consisted of a one-story building with associated concrete parking areas (refer to **Figure 1** and **Figure 2**).

1.2 CURRENT AND FORMER OPERATIONS

Based upon a review of historical information for the site, the former Affordable Auto began operations at this facility in approximately 1986. Prior to this date, the property appeared as vacant and utilized for used auto sales. The property owners are Timothy and Naomi French (current) and Peggy and Clarence Smith prior to 2010. The site is currently utilized as an active automobile repair facility.

1.3 NATURE AND EXTENT OF CONTAMINATION

In response to an underground storage tank (UST) removal project at this site, SME contracted Excel in November 2010 to complete UST closure assessment activities. Two 550-gallon tanks containing transmission and/or hydraulic fluid were removed as part of one excavation during the closure activities. Four soil samples were collected from beneath the USTs on November 3, 2010 and were laboratory analyzed for Total Petroleum Hydrocarbons (TPH), Diesel and Gasoline Range Organics (TPH-DRO & GRO) by EPA Methods 3550 and 5030, respectively and total metals (Chromium and Lead) by EPA Method 6010. A review of the initial analytical results indicated that levels of TPH-DRO exceeded the NCDENR action level for all four soil samples collected. Chromium

was found to be above the applicable Soil-to-Water Maximum Soil Contaminant Concentrations (MSCCs) for three of the four initial soil samples.

Excel completed over-excavation activities on December 14, 2010 in an effort to remove remaining impacted soils from within the former UST basin. During over-excavation activities a total of approximately 2.50-tons of soil were excavated from the UST basin and disposed of by Environmental Soils, Incorporated of Lattimore, North Carolina. Five soil samples were collected from the sidewalls and base of the excavation and laboratory analyzed for volatile organics by EPA Method 8260, semi-volatile organics by EPA Method 8270, MADEP Volatile Petroleum Hydrocarbons (VPH) and MADEP Extractable Petroleum Hydrocarbons (EPH). The laboratory analytical report revealed that three of the five sidewall samples contained levels of tetrachloroethene (PCE) at levels above the Soil-to-Water MSCCs. In addition, three of the five samples contained chromium either at or above the applicable Soil-to-Water MSCC standard. Excel submitted the Initial Abatement Action Report on February 1, 2011 to the NCDEQ, Mooresville Regional Office, UST Section for review and approval.

A notice of "No Further Action" was issued by the NCDEQ on February 22, 2011 which only applied to investigation activities associated with the UST release. The site was referred to the Inactive Hazardous Waste Section regarding the PCE identified in soils during closure activities.

On April 5, 2013, Excel conducted a limited site assessment at the former UST excavation on the northeast corner of the property. One monitoring well was installed and groundwater samples collected from the well indicated elevated levels of tetrachloroethene and chromium exceeding NCAC 2L standards. Soil samples collected during the site assessment were found to contain levels of tetrachloroethene (PCE) and trichloroethene (TCE) exceeding their respective Protection of Groundwater Standards.

On February 5, 2015 as part of the Remedial Investigation, soil samples were collected at a location near monitoring well MW-1 in five foot increments to a termination depth of approximately 20-fbgl (feet below grade level). Tetrachloroethene was detected at levels which were above the Protection of Groundwater Standard (PGS) in the samples collected at 5, 15 and 20-fbgl. Groundwater samples collected from monitoring well MW-1 indicated elevated levels of tetrachloroethene exceeding NCAC 2L standards.

On May 4 and May 6, 2015, as part of the Remedial Investigation, Excel installed three (3) two-inch diameter Type II monitoring wells and contracted Ransier Environmental Drilling Inc. for the installation of one (1) two-inch Type III monitoring well on May 12, 2015. Following the successful installation of the monitoring wells, a groundwater sampling event was conducted in May 2015. Based on the results from the May 2015 groundwater and soil sampling event, tetrachloroethene (PCE) was detected at levels exceeding NCAC 2L standards in monitoring wells MW-1, MW-2, and MW-3.

Bromodichloromethane was detected at levels exceeding the NCAC 2L standards in monitoring well MW-4 and Chlorodibromomethane was detected at levels exceeding the NCAC 2L levels in monitoring well VW-1. The analytical results from the soil samples collected in the vicinity of the former UST basin (B-1 thru B-4) indicated constituent levels below the Protection of Groundwater Standards with the exception of soil borings MW-1 and B-2. Tetrachloroethene (PCE) was detected at levels exceeding the PGS standards in soil boring MW-1 at 5-7, 15-17 and 20-22 fbgl and boring B-2 at 5-7-fbgl.

On October 29, 2015, as part of the Remedial Investgation, Excel contracted Ransier Environmental to install one (1) two-inch diameter Type II monitoring well on the property to further delineate to extent of groundwater impact at the site. Following the successful installation of the monitoring well, a groundwater sampling event was conducted on November 11, 2015. Based on the results from the November 2015 groundwater sampling event, tetrachloroethene (PCE) was detected at levels exceeding NCAC 2L standards in monitoring wells MW-1, MW-2, and MW-3. Chromium was detected at levels exceeding the NCAC 2L levels in monitoring well MW-5.

2.0 FIELD ACTIVITIES

On April 18, 2016, as part of the Phase I Remedial Investigation activities, Excel installed one (1) two-inch Type II monitoring well on the property to further delineate the extent of the groundwater impact at the site. The well construction record is provided in **Appendix C**.

Following the successful installation of the monitoring well, MW-5 and MW-6 (newly installed well) were developed using a combination of pumping and surging to remove fine-grained sediment that may have entered the well during installation and to ensure that the wells are in good hydraulic communication with the surrounding media. Approximately 24-hours following development groundwater samples were collected from monitoring wells MW-5 and MW-6. Monitoring well MW-5 was analyzed for total chromium by EPA Method 200.8, and MW-6 was analyzed for VOCs and total chromium by EPA Methods 8260 and 200.8, respectively. Prior to sampling, water levels were measured with an electronic water-level probe, which was decontaminated with a dilute Alconox water solution prior to inserting the probe into each well. This information was used to determine groundwater levels and calculate the purge volume for wells scheduled for sampling. Water level measurements and calculated water level elevations are presented on **Table 1**. A water table contour map based on the November 2015 water level measurements is provided as **Figure 3**.

The monitoring wells sampled during this event were purged prior to sample collection to ensure that a representative sample was obtained. Prior to collecting each groundwater sample, the following field parameters were measured: dissolved oxygen, oxidation reduction potential, pH, temperature, specific conductivity and turbidity. Purging continued until three well volumes was removed or the well was purged dry. Groundwater samples were submitted

to Biota Diagnostics, Charlotte, North Carolina, for analysis. QA/QC procedures, including a duplicate, trip and field blank sample were collected during the sampling event.

2.1 Survey

A site survey was completed to define existing site conditions and improvements, and to locate drilling and sampling points associated with remedial activities. This work was completed by Gerald M. Sosebee with Carolina Design Group, PLLC , a Professional Land Surveyor, and began with the preparation of a full legal boundary survey of the property. Site features and improvements were also surveyed, including buildings, paved areas, utilities, storm and sanitary sewers, and surface water drainage features.

3.0 Performance and Monitoring Programs

Based on the results from the April 2016 groundwater sampling event, all constituents were detected at concentrations below the NCAC 2L standards in monitoring wells MW-5 and MW-6.

Field parameters, including temperature, dissolved oxygen (DO), pH, conductivity, oxidation-reduction potential (ORP), and turbidity were recorded during the April 2016 sampling event and are presented in **Table 2**.

Analytical results for this sampling event are summarized in **Table 3.** Historical groundwater analytical results are provided in **Table 4**. The Site Plan, COC concentration map, water table contour map, and PCE in Groundwater maps are provided in **Figures 2** thru **5.**

4.0 Conclusions and Recommedations

Based on the results of this investigation, it appears that the extent of impacted groundwater is centered around the former UST basin and appears primarily located on the property. In the cross-gradient directions to the east of the site, the extent of impact is undefined. The adjacent landowners to the east have denied Excel's request to install additional wells and have subsequently placed restrictions on Excel's ability to delineate the lateral extent of groundwater impact at the site. However, the extent of impacted groundwater has been defined in the down-gradient direction and does not appear to be migrating off-site towards West Franklin Boulevard. Additionally, a review of historical groundwater data (refer to **Table 4**) suggests relatively static subsurface conditions in which the concentration and distribution of constituents has not changed significanty over time. It appears that the migration of impacted groundwater may be limited by hydrogeologic conditions at the site. **Figures 3** thru **5** provide a summary of groundwater conditions at the site.

A review of historical soil quality data indicates a localized area of tetrachloroethene and trichloroethene impacted soils in the former UST basin extending to the west.

Based on the review of information in this report and previous reports completed by Excel for the subject site, we recommend the following;

- Based on the area of impacted soils, Excel recommends additional soils sampling to the west of the UST basin to define the extent of impacted soils. The area of impacted soils may be treated in situ by ISCO techniques.

5.0 Project Certifications

As required in **15A NCAC 13C .0306(b)**, this report has been properly certified. Specifically, the Remediating Party Certification Statement (.0306(b)(2)) and Registered Site Manager Certification Statement (.0306(b)(1)) are included in **Appendix A** as required by Section .0306(b)(5) of the *Registered Environmental Consultant Program Implementation Guidance*.

6.0 Project Schedule

This section provides a tentative milestones schedule for expanded monitoring well and sampling locations, performance monitoring and evaluation, and progress reporting.

- **CY2016:**
  - *Complete Remedial Investigation;*
  - *Remedial Action Plan & Project Progress Reports submitted*

7.0 LIMITATIONS

This report is based on a limited number of groundwater sample and chemical analyses. The conclusions presented in this report are based only on the observation made during this investigation. The report presents a description of the subsurface conditions observed at each boring location during this investigation. Subsurface conditions may vary significantly with time, particularly with respect to groundwater elevations and quality. Conclusions and recommendations set forth herein are applicable only to the observations, facts and conditions described at the time of this report.

In performing its professional services, Excel uses that degree of care and skill exercised under similar circumstances by members of the environmental profession practicing at the same or similar locality under similar conditions. The standard of care shall be judged exclusively as of the time these services are rendered and not according to later standards. Excel makes no express or implied warranty beyond its conformance to this standard. Excel shall not be responsible for conditions or consequences arising from the relevant facts that were concealed, withheld or not fully disclosed for this report. Excel believes that all information contained in this report is factual, but no guarantee is made or implied.

LIST OF TABLES

Table 1 - Monitor Well Construction Data and Liquid Level Data

Table 2 – Groundwater Field Measurements

Table 3 – Groundwater Summary Data – April 2016

Table 4 – Historical Groundwater Summary Data

Table 1 - Monitoring Well Constuction Data and Liquid Level Data
Affordable Auto
500 West Franklin Blvd.
Gastonia, North Carolina
Excel Project No. 201098

WELL NUMBER	DATE INSTALLED	TOTAL DEPTH (ft)	CASING DIAMETER (in)	SCREEN INTERVAL (ft)	TOC (ft)	DTW (ft)	WTE (ft)
MW-1	04/05/13	35	2	20-35	100.00	27.76	72.24
MW-2	05/04/15	30	2	15-30	100.34	28.20	72.14
MW-3	05/06/15	33	2	18-33	96.74	25.16	71.58
MW-4	05/06/15	33	2	18-33	94.19	25.00	69.19
MW-5	10/29/15	39	2	24-39	104.54	32.62	71.92
MW-6	04/18/16	34	2	19-34	--	25.00	--
VW-1	05/12/15	50	2	45-50	99.94	27.75	72.19

NOTES:

DTW - Depth to Water

TOC - Top of Casing

WTE - Water Table Elevation

Data collected from MW-1, MW-2, MW-3, MW-4, MW-5, and VW-1 on 11/11/15, and data collected from MW-6 on 4/21/16

TABLE 2
GROUNDWATER FIELD MEASUREMENTS
Affordable Auto
500 West Franklin Blvd
Gastonia, North Carolina
Excel Project No. 201098

Well ID	Temperature (°C)	pH (SU)	ORP (mV)	Specific Conductivity (µS/cm)	Turbidity (NTU)	DO (ppm)
MW-5	18.74	5.07	170	0.2	172	4.01
MW-6	19.32	6.00	178	--	152	2.65

NOTES:

^{o}C - degrees Celsius
SU - Standard Units
mV - milliVolts
Data collected April 21, 2016

µS/cm - microSiemens per centimeter
NTU - Nephelometric Turbidity Units
ppm - parts per million

Table 3 - Groundwater Summary Data - April 2016
(Former) Affordable Auto
500 West Franklin Boulevard
Gastonia, NC
Excel Project No. 201098

Well ID	Date Sampled	CONSTITUENTS OF CONCERN												
		Chromium	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloroform	PCE	TCE	Methylene Chloride	cis-1,2 DCE	MTBE	Bromo-dichloromethane	Chloro-dibromomethane
NCAC 2L Standards		**10**	**1**	**600**	**600**	**500**	**70**	**0.7**	**3**	**5**	**70**	**20**	**0.6**	**0.4**
MW-5	04/21/16	1.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6		1.20	< 0.05	< 0.13	< 0.09	< 0.17	< 0.06	< 0.21	< 0.28	NA	NA	NA	< 0.19	< 0.22

NOTES:

Data provided in micrograms per liter or µg/L or ppb
NCAC = North Carolina Administrative Code
BOLD and highlighted data exceeded NCAC 2L Standards

NA = Not Analyzed or Not Reported
J = Tentatively detected below reporting limit
B = Detected in blank; result is suspect
PCE- Tertachloroethene

TCE- Trichloroethene
MTBE- Methyl tert-butyl ether
cis-1,2 DCE- Dichloroethene

Table 4 - Historical Groundwater Summary Data
(Former) Affordable Auto
500 West Franklin Boulevard
Gastonia, NC
Excel Project No. 201098

Well ID	Date Sampled	CONSTITUENTS OF CONCERN												
		Chromium	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloroform	PCE	TCE	Methylene Chloride	cis-1,2 DCE	MTBE	Bromo-dichloromethane	Chloro-dibromomethane
NCAC 2L Standards		**10**	**1**	**600**	**600**	**500**	**70**	**0.7**	**3**	**5**	**70**	**20**	**0.6**	**0.4**
MW-1	19-Apr-13	**350**	< 0.33	< 0.78	< 0.38	< 1.1	36	**0.95**	< 0.4	< 1	< 0.26	< 0.37	< 0.38	< 0.33
	10-Feb-15	7.9	< 0.09	< 0.10	< 0.16	< 0.32	1.5	**6.90**	< 0.15	< 1.1	< 0.093	< 0.1	< 0.08	< 0.13
	27-May-15	< 1.4	< 0.33	< 0.78	< 0.38	< 1.1	1.79 J	**6.83**	< 0.4	1.6 J	< 0.26	< 0.37	< 0.38	< 0.33
	11-Nov-15	9.69 J	< 0.33	< 0.78	< 0.38	< 1.1	3.14 J	**9.68**	< 0.4	< 1	< 0.26	< 0.37	< 0.38	< 0.33
MW-2	27-May-15	3.27 J	< 0.33	< 0.78	< 0.38	< 1.1	2.95 J	**2.68**	< 0.4	1.23	< 0.26	< 0.37	< 0.38	< 0.33
	11-Nov-15	3.37 J	< 0.33	< 0.78	< 0.38	< 1.1	3.45 J	**3.08**	< 0.4	< 1	< 0.26	< 0.37	< 0.38	< 0.33
MW-3	27-May-15	< 1.4	< 0.33	< 0.78	< 0.38	< 1.1	< 0.32	**7.23**	< 0.4	1.33 J	2.61	2.53	< 0.38	< 0.33
	11-Nov-15	3.37 J	< 0.33	< 0.78	< 0.38	< 1.1	< 0.32	**6.93**	< 0.4	< 1	2.76	3.58	< 0.38	< 0.33
MW-4	29-May-15	1.88 J	< 0.33	< 0.78	< 0.38	< 1.1	12.8	< 0.37	< 0.4	1.32 J	< 0.26	< 0.37	**1.01**	< 0.33
	11-Nov-15	< 1.4	< 0.33	< 0.78	< 0.38	< 1.1	11.6	< 0.37	< 0.4	< 1	< 0.26	< 0.37	0.549 J	< 0.33
MW-5	11-Nov-15	**23.3**	< 0.33	< 0.78	< 0.38	< 1.1	0.517 J	0.557 J	< 0.4	< 1	< 0.26	< 0.37	< 0.38	< 0.33
	21-Apr-16	1.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	21-Apr-16	1.2	< 0.05	< 0.13	< 0.09	< 0.17	< 0.06	< 0.21	< 0.28	NA	NA	NA	< 0.19	< 0.22
VW-1	27-May-15	3.15 J	< 0.33	< 0.78	< 0.38	< 1.1	0.966 J	< 0.37	< 0.4	1.22 J	< 0.26	< 0.37	0.434 J	**0.6 J**
	11-Nov-15	1.53 J	< 0.33	< 0.78	< 0.38	< 1.1	0.474 J	< 0.37	< 0.4	< 1	< 0.26	< 0.37	< 0.38	< 0.33

NOTES:

Data provided in micrograms per liter or µg/L or ppb
NCAC = North Carolina Administrative Code
BOLD and highlighted data exceeded NCAC 2L Standards

NA = Not Analyzed or Not Reported
J = Tentatively detected below reporting limit
B = Detected in blank; result is suspect
PCE- Tertachloroethene

TCE- Trichloroethene
MTBE- Methyl tert-butyl ether
cis-1,2 DCE- Dichloroethene

LIST OF FIGURES

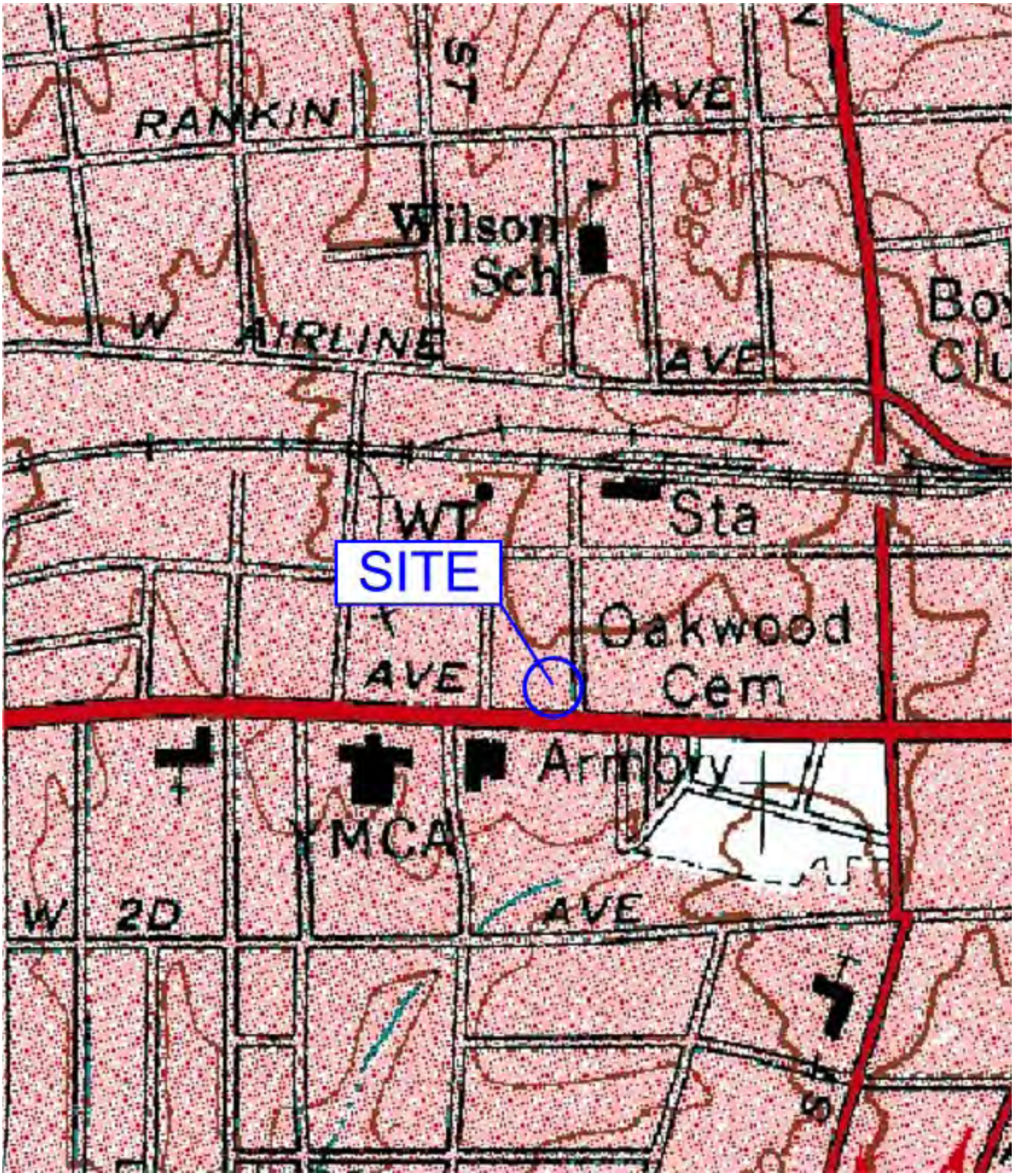
Figure 1 – Site Vicinity Map

Figure 2 – Site Plan

Figure 3 – Water Table Contour Map

Figure 4 – Groundwater Constituents Map

Figure 5 – PCE in Groundwater Map



EXCEL CIVIL & ENVIRONMENTAL ASSOCIATES, PLLC
625 HUNTSMAN COURT
GASTONIA, NC 28054
(704) 853-08000

Figure 1 – Site Vicinity Map

Excel Project Number 201098

Source: U.S.G.S. 7.5 Minute Topographic Map
(www.terraserver-usa.com)

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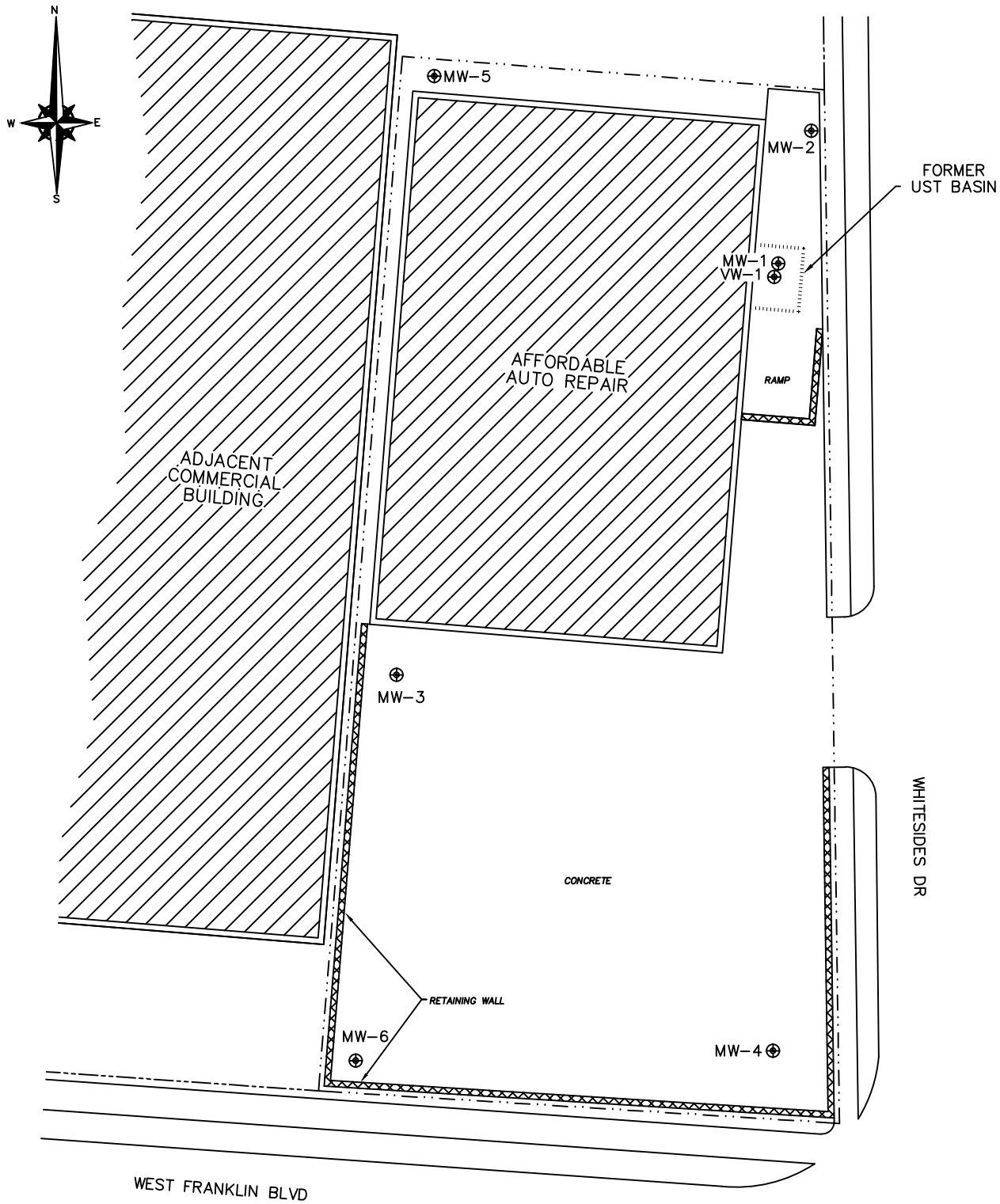

LEGEND

- Property Line (Approx)
- Right of Way (Approx)
- Former UST Basin (Approx)
- Monitor Well Location

NOTES

Map adapted from aerial photograph from Gaston County GIS.

UST – Underground Storage Tank

Excel

Civil & Environmental Associates, PLLC

625 HUNTSMAN COURT, GASTONIA, NC 28054 *PHONE : (704) 853-0800*

PREPARED FOR :	*SMITH ENTERPRISES* *(FORMER) AFFORDABLE AUTO* *500 W. FRANKLIN BOULEVARD, GASTONIA, NC*
MAP TITLE :	*FIGURE 2 - SITE PLAN* *PROJECT PROGRESS REPORT*

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
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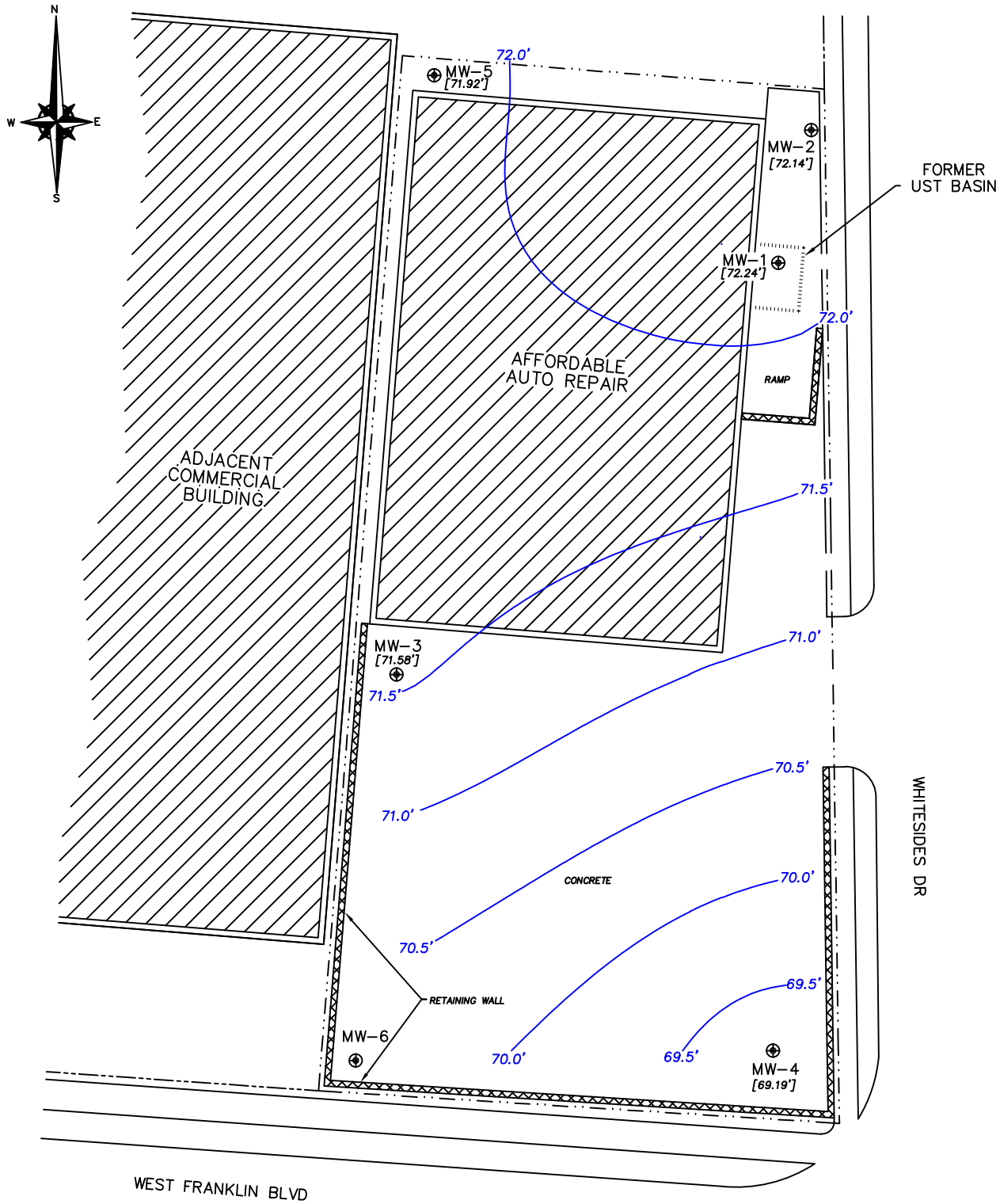

LEGEND

- Property Line (Approx)
- Right of Way (Approx)
- Former UST Basin (Approx)
- Monitor Well Location

NOTES

Map adapted from aerial photograph from Gaston County GIS.

UST – Underground Storage Tank

Water level data collected 11/11/15

Excel
Civil & Environmental Associates, PLLC

625 HUNTSMAN COURT, GASTONIA, NC 28054 PHONE : (704) 853-0800

PREPARED FOR :	SMITH ENTERPRISES (FORMER) AFFORDABLE AUTO 500 W. FRANKLIN BOULEVARD, GASTONIA, NC
MAP TITLE :	FIGURE 3 - WATER TABLE CONTOUR MAP PROJECT PROGRESS REPORT

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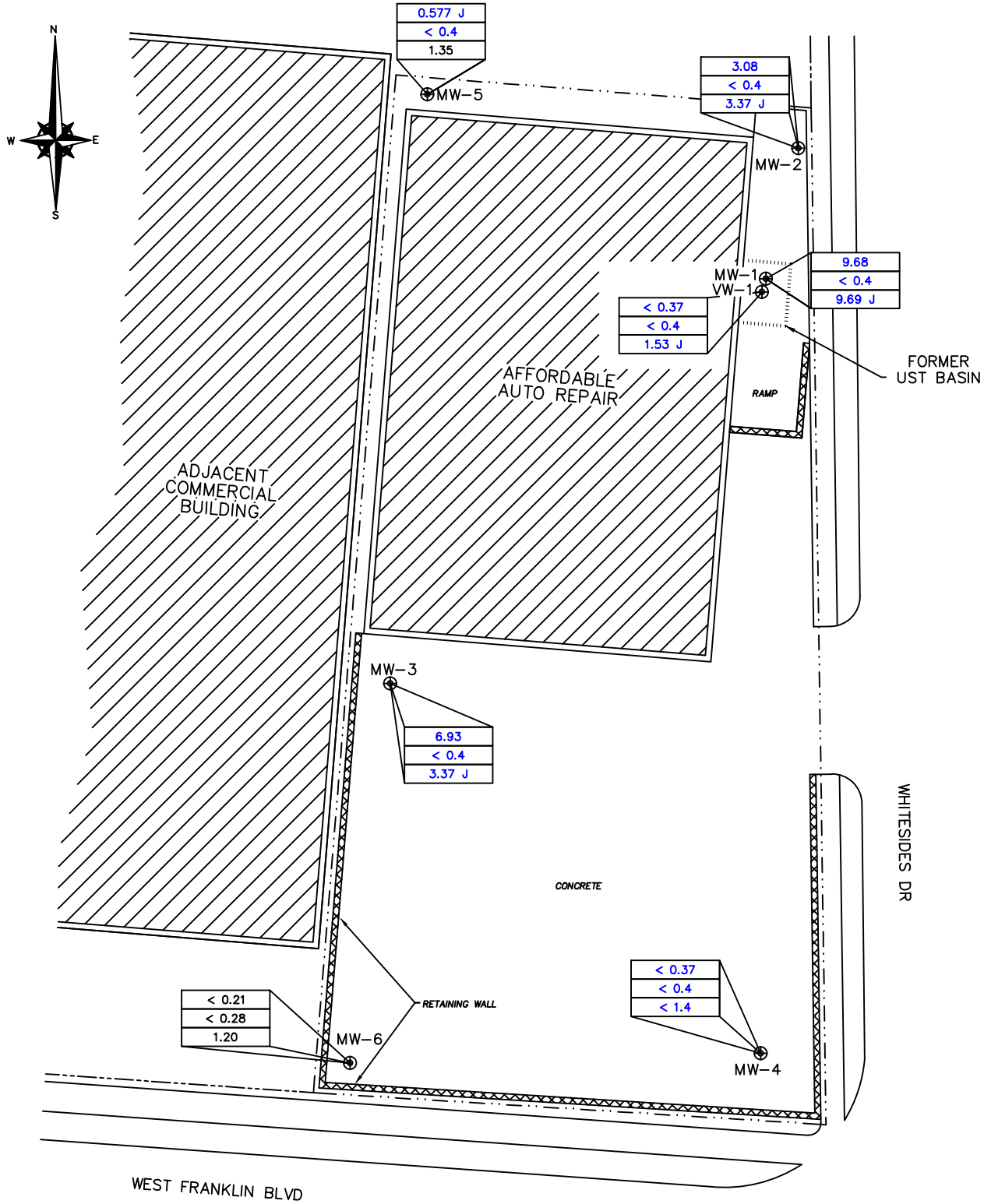

LEGEND

- Property Line (Approx)
- Right of Way (Approx)
- Former UST Basin (Approx)
- Monitor Well Location

PCE
TCE
Chromium

Constituents Shown

NOTES

Map adapted from aerial photograph from Gaston County GIS.

UST – Underground Storage Tank

Data from samples collected in April 2016

Data in blue collected in November 2015

Data provided in ug/L

PCE – Tetrachloroethene

TCE – Trichloroethene

Excel

Civil & Environmental Associates, PLLC

625 HUNTSMAN COURT, GASTONIA, NC 28054 PHONE : (704) 853-0800

PREPARED FOR :	*SMITH ENTERPRISES* *(FORMER) AFFORDABLE AUTO* *500 W. FRANKLIN BOULEVARD, GASTONIA, NC*
MAP TITLE :	*FIGURE 4 - GROUNDWATER CONSTITUENTS MAP* *PROJECT PROGRESS REPORT*

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
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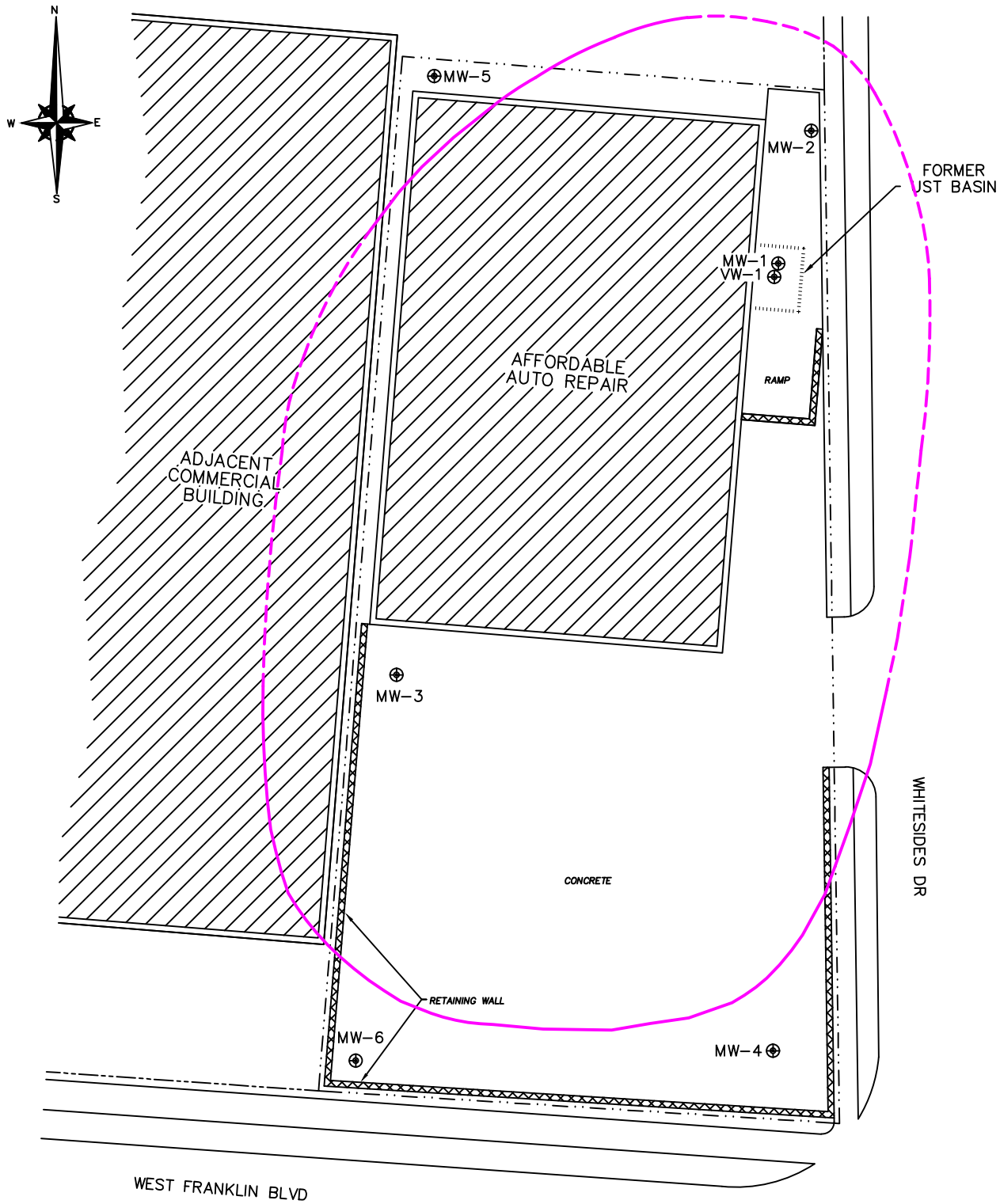

LEGEND

- Property Line (Approx)
- Right of Way (Approx)
- Former UST Basin (Approx)
- Monitor Well Location
- Approximate extent of PCE in groundwater above NCAC 2L standard (0.7 ug/L)
- Inferred extent of PCE in groundwater above NCAC 2L standard (0.7 ug/L)

NOTES

Map adapted from aerial photograph from Gaston County GIS.

UST – Underground Storage Tank

PCE – Tetrachloroethene

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625 HUNTSMAN COURT, GASTONIA, NC 28054 PHONE : (704) 853-0800

PREPARED FOR :	*SMITH ENTERPRISES* *(FORMER) AFFORDABLE AUTO* *500 W. FRANKLIN BOULEVARD, GASTONIA, NC*
MAP TITLE :	*FIGURE 5 - PCE IN GROUNDWATER MAP* *PROJECT PROGRESS REPORT*

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201098	NSS	1" = 25'	5/5/2016

LIST OF APPENDICES

Appendix A – Plan Certifications

Appendix B – Groundwater Sampling Forms

Appendix C – Well Construction Records

Appendix D – Laboratory Reports and Chain of Custody Forms

Appendix A

Plan Certifications

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
HHSB SITE NAME Affordable Auto Repair – Gastonia, Gaston Co. NONCD0002276
DATE & NAME OF DOCUMENT 5/6/2016 Quarterly Progress Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Smith Enterprises of Gaston Co. LLC
Name of Remediating Party

Signature of Remediating Party

5/24/16
Date

NOTARIZATION

N.C. (Enter State)

Gaston **COUNTY**

I, Donna R. Bradley, a Notary Public of said County and State, do hereby certify that Timothy L. Fr.dley did personally appear and sign before me this day, produced proper identification in the form of NCDL, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 24 day of May, 2016.

Donna R. Bradley
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires:

DONNA R. BRADLEY
NOTARY PUBLIC
Gaston County
North Carolina
My Commission Expires Jan. 27, 2020

DONNA R. BRADLEY NOTARY PUBLIC GASTON COUNTY, NC

Document Certification Form No. DC - 1
(Revised 8/11)

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Affordable Auto Repair – Gastonia, Gaston Co. NONCD0002276
DATE & NAME OF DOCUMENT 5/6/2016 Quarterly Progress Report
TYPE OF SUBMITTAL (circle all that apply): Report Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Mike Stanforth
Name of Registered Site Manager

Signature of Registered Site Manager

6/27/16
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Mike Stanforth
Name of Registered Site Manager

Signature of Registered Site Manager

6/27/16
Date

NOTARIZATION

North Carolina (Enter State)

Gaston **COUNTY**

I, Donna E. Farris, a Notary Public of said County and State, do hereby certify that Mike Stanforth did personally appear and sign before me this day, produced proper identification in the form of NCDL, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 27th day of June, 2016

Donna E. Farris
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 5/4/2018

Document Certification Form No. DC - II
(Revised 8/11)

Appendix B

Groundwater Sampling Forms

EATON ROXBORO - Ground Water Sampling Form

Consultant Company: Excel Civil & Environmental, Associates
Project: Phase I RI
Facility: Affordable Auto

Location: Gastonia, NC
Date: 4/21/2016
Sampler(s): N. Simmons

Sample Information

Sample ID: MW-5

Screen/Depth: 19' - 34'

Collection Date: 4/21/2016

Collection Time(24:00): 915

QA/QC Sample Collected: YES NO

Type: _____

QA/QC ID: FB-1, TB-1

Sampling Data

Sample collection based on: Purge Volume

Parameter Stabilization

other: _____

Sampling Method: Bailer, 3 well volumes

Field Parameters

Time	Purge Volume (gallons)	Stabilization			Other Parameters		
		pH (pH units)	Conductivity (µmhos/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Temp (Cent)
0910	4.4	5.07	0.200	172	4.01	170	18.7

Purge Volume Calculations

Total Well Depth: 34 ft
Water Level: 25 ft
Water Column = 9 ft
Gallons per ft: x 0.163 gal
Well Volume = 1.47 gal

Well Volumes
To be Removed: 3 x 1.47 = 4.40 gallons to be purged prior to sampling 16.66 LITERS

Well Casing Volumes (gallons per foot)		
1.0" = 0.041	2.0" = 0.163	3.0"=0.367
1.5" = 0.092	2.5" = 0.255	4" = 0.653

Stabilization Requirements:	
pH:	± 0.1 unit
Conductivity:	± 5%
Turbidity:	± 10%

Remarks: _____

Sample Description

Sample Color: _____

Sheen: _____

Odor: _____

NAPL present: _____

Comments: _____

EATON ROXBORO - Ground Water Sampling Form

Consultant Company: Excel Civil & Environmental, Associates
Project: Phase I RI
Facility: Affordable Auto

Location: Gastonia, NC
Date: 4/21/2016
Sampler(s): N. Simmons

Sample Information

Sample ID: MW-6

Screen/Depth: 24' - 39'

Collection Date: 4/21/2016

Collection Time(24:00): 945

QA/QC Sample Collected: YES / NO

Type: _____

QA/QC ID: DUP-1

Sampling Data

Sample collection based on: Purge Volume

Parameter Stabilization

other: _____

Sampling Method: Bailer, 3 well volumes

Field Parameters

Time	Purge Volume (gallons)	Stabilization pH (pH units)	Stabilization Conductivity (µmhos/cm)	Stabilization Turbidity (NTU)	Other Parameters DO (mg/L)	Other Parameters ORP (mV)	Other Parameters Temp (Cent)
0940	3.18	6.00	--	152	2.65	178	19.3

Purge Volume Calculations

Total Well Depth: 39 ft
Water Level: 32.5 ft
Water Column = 6.5 ft
Gallons per ft: x 0.163 gal
Well Volume = 1.06 gal

Well Volumes
To be Removed: 3 x 1.06 = 3.18 gallons to be purged prior to sampling 12.03 LITERS

Well Casing Volumes (gallons per foot)		
1.0" = 0.041	2.0" = 0.163	3.0"=0.367
1.5" = 0.092	2.5" = 0.255	4" = 0.653

Stabilization Requirements:	
pH:	± 0.1 unit
Conductivity:	± 5%
Turbidity:	± 10%

Remarks: _____

Sample Description

Sample Color: _____

Sheen: _____

Odor: _____

NAPL present: _____

Comments: _____

Appendix C

Well Construction Records

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Michael T. Stanforth, P.E.

Well Contractor Name

2525

NC Well Contractor Certification Number

Excel Civil & Environmental Associates, PLLC

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4/18/16 **Well ID#** MW-6

5a. Well Location:

Affordable Auto

Facility/Owner Name

Facility ID# (if applicable)

500 W. Franklin Blvd, Gastonia, NC 28052

Physical Address, City, and Zip

Gaston

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.262475 N 81.190578 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells ONLY with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 34 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: ~25 **(ft.)**

If water level is above casing, use "-"

11. Borehole diameter: 4 **(in.)**

12. Well construction method: Auger

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
25 ft.	34 ft.	MW-6
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	19 ft.	2 in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
19 ft.	34 ft.	2 in.			
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	15 ft.	grout	
15 ft.	17 ft.	bentonite	
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
17 ft.	34 ft.	medium quartz	
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	3 ft.	Red sandy clay fill, dry
3 ft.	25 ft.	Light brown sandy silt, moist
25 ft.	34 ft.	Light brown sandy silty, wet
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

Water encountered at approximately 25 feet below ground surface

22. Certification:

Signature of Certified Well Contractor — Date: 5/5/16

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:

Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Appendix D

Laboratory Reports and Chain of Custody Forms

Biota Diagnostics, LLC
2401 Whitehall Park Dr.
Suite 700
Charlotte NC, 28273
(704)992-0708

April 29, 2016

Mike Stanforth
Excel Civil & Environmental Associates
625 Huntsman Court
Gastonia, NC 28150

RE: Project ID: BD-0090
Customer ID:

Dear Mike Stanforth

Enclosed are the analytical results for the sample/samples received on April 21st, 2016. The following results relate only to the samples included in this report. Should you have any questions or concerns please do not hesitate to contact us.

Sincerely,

Keith Hambright

Keith Hambright
Laboratory Director
Khambright@BiotaDiag.com
Biota Diagnostics

Definitions/Glossary

Qualifiers

Qualifier	Qualifier Description
B1	LCS percent recovery is outside of laboratory limits.

Glossary

Abbreviation	These abbreviations may or may not be represented in this report
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates Dilution, RE-analysis, RE-extraction, or additional Initial metals/anion analysis of sample
DLC	Decision Level Concentration
MDA	Minimum Detectable Activity
EDL	Estimated Detection Limit
MDC	Minimum Detectable Concentration
MDL	Method Detection Limit
ML	Minimum Level
NC	Not Calculated
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio
RL	Reporting Limit or Requested Limit
RPD	Relative Percent Difference
TEF	Toxicity Equivalent Factor
TEQ	Toxicity Equivalent Quotient

Client Sample Results

Client Sample ID: MW-5

Biota Sample ID: SX160084

Date Collected: 4/21/2016

Matrix: Water

Date Received: 4/21/2016

Method: EPA 200.8

Analyte	Results	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Factor
Chromium	1.35		1.00	0.1520	µg/L		4/27/2016	4/27/2016	1

Client Sample ID: MW-6

Biota Sample ID: SX160085

Date Collected: 4/21/2016

Matrix: Water

Date Received: 4/21/2016

Method: EPA 200.8

Analyte	Results	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Factor
Chromium	1.20		1.00	0.1520	µg/L		4/27/2016	4/27/2016	1

Client Sample Results

Client Sample ID: MW-6

Biota Sample ID: SX160085

Date Collected: 4/21/2016

Date Received: 4/21/2016

Matrix: Water

Method: EPA 8260

Analyte	Results	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Factor
1,1,1-Trichloroethane	ND		1.00	0.1297	µg/L		4/27/2016	4/27/2016	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.1373	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	ND		1.00	0.1045	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloroethane	ND		1.00	0.1465	µg/L		4/27/2016	4/27/2016	1
1,1,-Dichloroethane	ND		1.00	0.0435	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloroethene	ND		1.00	0.1083	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloropropene	ND		1.00	0.1233	µg/L		4/27/2016	4/27/2016	1
1,2-Dichlorobenzene	ND		1.00	0.1164	µg/L		4/27/2016	4/27/2016	1
1,2-Dichloropropane	ND		1.00	0.0636	µg/L		4/27/2016	4/27/2016	1
1,3,5-Trimethylbenzene	ND		1.00	0.0792	µg/L		4/27/2016	4/27/2016	1
1,3-Dichlorobenzene	ND		1.00	0.4429	µg/L		4/27/2016	4/27/2016	1
4-Chlorotoluene	ND		1.00	0.2154	µg/L		4/27/2016	4/27/2016	1
4-Isopropyltoluene	ND		1.00	0.1116	µg/L		4/27/2016	4/27/2016	1
Benzene	ND		1.00	0.0493	µg/L		4/27/2016	4/27/2016	1
Bromochloromethane	ND		1.00	0.0342	µg/L		4/27/2016	4/27/2016	1
Bromodichloromethane	ND		1.00	0.1927	µg/L		4/27/2016	4/27/2016	1
Bromoform	ND		1.00	0.2638	µg/L		4/27/2016	4/27/2016	1
Bromomethane	ND		1.00	0.4693	µg/L		4/27/2016	4/27/2016	1
Carbon disulfide	ND		1.00	0.1966	µg/L		4/27/2016	4/27/2016	1
Chlorobenzene	ND		1.00	0.0597	µg/L		4/27/2016	4/27/2016	1
Chlorodibromomethane	ND		1.00	0.2212	µg/L		4/27/2016	4/27/2016	1
Chloroethane	ND		1.00	0.2082	µg/L		4/27/2016	4/27/2016	1
Chloroform	ND		1.00	0.0628	µg/L		4/27/2016	4/27/2016	1
cis-1,3-Dichloropropene	ND		1.00	0.0368	µg/L		4/27/2016	4/27/2016	1
Dibromomethane	ND		1.00	0.0987	µg/L		4/27/2016	4/27/2016	1
Dichlorodifluoromethane	ND		1.00	0.1079	µg/L		4/27/2016	4/27/2016	1
Ethylbenzene	ND		1.00	0.0854	µg/L		4/27/2016	4/27/2016	1
Ethylene Dibromide	ND		1.00	0.0925	µg/L		4/27/2016	4/27/2016	1
Iodomethane	ND		10.00	0.1286	µg/L		4/27/2016	4/27/2016	1
Isopropylbenzene	ND		1.00	0.1144	µg/L		4/27/2016	4/27/2016	1
o-Xylene	ND		1.00	0.0886	µg/L		4/27/2016	4/27/2016	1
p,m-Xylene	ND		1.00	0.0769	µg/L		4/27/2016	4/27/2016	1
sec-Butylbenzene	ND		1.00	0.3196	µg/L		4/27/2016	4/27/2016	1
tert-Butylbenzene	ND		1.00	0.2687	µg/L		4/27/2016	4/27/2016	1
Tetrachloroethene	ND		1.00	0.2097	µg/L		4/27/2016	4/27/2016	1
Toluene	ND		1.00	0.1277	µg/L		4/27/2016	4/27/2016	1
trans-1,2 Dichloroethene	ND		1.00	0.1374	µg/L		4/27/2016	4/27/2016	1
trans-1,3-Dichloropropene	ND		1.00	0.0344	µg/L		4/27/2016	4/27/2016	1
Trichloroethene	ND		1.00	0.2785	µg/L		4/27/2016	4/27/2016	1
Trichlorofluoromethane	ND		1.00	0.2881	µg/L		4/27/2016	4/27/2016	1

Surrogates	*% Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*103.8*	*86-115*	

Client Sample Results

Client Sample ID: FB-1

Biota Sample ID: SX160086

Date Collected: 4/21/2016

Date Received: 4/21/2016

Matrix: Water

Method: EPA 8260

Analyte	Results	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Factor
1,1,1-Trichloroethane	ND		1.00	0.1297	µg/L		4/27/2016	4/27/2016	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.1373	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	ND		1.00	0.1045	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloroethane	ND		1.00	0.1465	µg/L		4/27/2016	4/27/2016	1
1,1,-Dichloroethane	ND		1.00	0.0435	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloroethene	ND		1.00	0.1083	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloropropene	ND		1.00	0.1233	µg/L		4/27/2016	4/27/2016	1
1,2-Dichlorobenzene	ND		1.00	0.1164	µg/L		4/27/2016	4/27/2016	1
1,2-Dichloropropane	ND		1.00	0.0636	µg/L		4/27/2016	4/27/2016	1
1,3,5-Trimethylbenzene	ND		1.00	0.0792	µg/L		4/27/2016	4/27/2016	1
1,3-Dichlorobenzene	ND		1.00	0.4429	µg/L		4/27/2016	4/27/2016	1
4-Chlorotoluene	ND		1.00	0.2154	µg/L		4/27/2016	4/27/2016	1
4-Isopropyltoluene	ND		1.00	0.1116	µg/L		4/27/2016	4/27/2016	1
Benzene	ND		1.00	0.0493	µg/L		4/27/2016	4/27/2016	1
Bromochloromethane	ND		1.00	0.0342	µg/L		4/27/2016	4/27/2016	1
Bromodichloromethane	ND		1.00	0.1927	µg/L		4/27/2016	4/27/2016	1
Bromoform	ND		1.00	0.2638	µg/L		4/27/2016	4/27/2016	1
Bromomethane	ND		1.00	0.4693	µg/L		4/27/2016	4/27/2016	1
Carbon disulfide	ND		1.00	0.1966	µg/L		4/27/2016	4/27/2016	1
Chlorobenzene	ND		1.00	0.0597	µg/L		4/27/2016	4/27/2016	1
Chlorodibromomethane	ND		1.00	0.2212	µg/L		4/27/2016	4/27/2016	1
Chloroethane	ND		1.00	0.2082	µg/L		4/27/2016	4/27/2016	1
Chloroform	ND		1.00	0.0628	µg/L		4/27/2016	4/27/2016	1
cis-1,3-Dichloropropene	ND		1.00	0.0368	µg/L		4/27/2016	4/27/2016	1
Dibromomethane	ND		1.00	0.0987	µg/L		4/27/2016	4/27/2016	1
Dichlorodifluoromethane	ND		1.00	0.1079	µg/L		4/27/2016	4/27/2016	1
Ethylbenzene	ND		1.00	0.0854	µg/L		4/27/2016	4/27/2016	1
Ethylene Dibromide	ND		1.00	0.0925	µg/L		4/27/2016	4/27/2016	1
Iodomethane	ND		10.00	0.1286	µg/L		4/27/2016	4/27/2016	1
Isopropylbenzene	ND		1.00	0.1144	µg/L		4/27/2016	4/27/2016	1
o-Xylene	ND		1.00	0.0886	µg/L		4/27/2016	4/27/2016	1
p,m-Xylene	ND		1.00	0.0769	µg/L		4/27/2016	4/27/2016	1
sec-Butylbenzene	ND		1.00	0.3196	µg/L		4/27/2016	4/27/2016	1
tert-Butylbenzene	ND		1.00	0.2687	µg/L		4/27/2016	4/27/2016	1
Tetrachloroethene	ND		1.00	0.2097	µg/L		4/27/2016	4/27/2016	1
Toluene	ND		1.00	0.1277	µg/L		4/27/2016	4/27/2016	1
trans-1,2 Dichloroethene	ND		1.00	0.1374	µg/L		4/27/2016	4/27/2016	1
trans-1,3-Dichloropropene	ND		1.00	0.0344	µg/L		4/27/2016	4/27/2016	1
Trichloroethene	ND		1.00	0.2785	µg/L		4/27/2016	4/27/2016	1
Trichlorofluoromethane	ND		1.00	0.2881	µg/L		4/27/2016	4/27/2016	1

Surrogates	*% Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*103.4*	*86-115*	

Client Sample Results

Client Sample ID: DUP-1

Biota Sample ID: SX160087

Date Collected: 4/21/2016

Matrix: Water

Date Received: 4/21/2016

Method: EPA 8260

Analyte	Results	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Factor
1,1,1-Trichloroethane	ND		1.00	0.1297	µg/L		4/27/2016	4/27/2016	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.1373	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	ND		1.00	0.1045	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloroethane	ND		1.00	0.1465	µg/L		4/27/2016	4/27/2016	1
1,1,-Dichloroethane	ND		1.00	0.0435	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloroethene	ND		1.00	0.1083	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloropropene	ND		1.00	0.1233	µg/L		4/27/2016	4/27/2016	1
1,2-Dichlorobenzene	ND		1.00	0.1164	µg/L		4/27/2016	4/27/2016	1
1,2-Dichloropropane	ND		1.00	0.0636	µg/L		4/27/2016	4/27/2016	1
1,3,5-Trimethylbenzene	ND		1.00	0.0792	µg/L		4/27/2016	4/27/2016	1
1,3-Dichlorobenzene	ND		1.00	0.4429	µg/L		4/27/2016	4/27/2016	1
4-Chlorotoluene	ND		1.00	0.2154	µg/L		4/27/2016	4/27/2016	1
4-Isopropyltoluene	ND		1.00	0.1116	µg/L		4/27/2016	4/27/2016	1
Benzene	ND		1.00	0.0493	µg/L		4/27/2016	4/27/2016	1
Bromochloromethane	ND		1.00	0.0342	µg/L		4/27/2016	4/27/2016	1
Bromodichloromethane	ND		1.00	0.1927	µg/L		4/27/2016	4/27/2016	1
Bromoform	ND		1.00	0.2638	µg/L		4/27/2016	4/27/2016	1
Bromomethane	ND		1.00	0.4693	µg/L		4/27/2016	4/27/2016	1
Carbon disulfide	ND		1.00	0.1966	µg/L		4/27/2016	4/27/2016	1
Chlorobenzene	ND		1.00	0.0597	µg/L		4/27/2016	4/27/2016	1
Chlorodibromomethane	ND		1.00	0.2212	µg/L		4/27/2016	4/27/2016	1
Chloroethane	ND		1.00	0.2082	µg/L		4/27/2016	4/27/2016	1
Chloroform	ND		1.00	0.0628	µg/L		4/27/2016	4/27/2016	1
cis-1,3-Dichloropropene	ND		1.00	0.0368	µg/L		4/27/2016	4/27/2016	1
Dibromomethane	ND		1.00	0.0987	µg/L		4/27/2016	4/27/2016	1
Dichlorodifluoromethane	ND		1.00	0.1079	µg/L		4/27/2016	4/27/2016	1
Ethylbenzene	ND		1.00	0.0854	µg/L		4/27/2016	4/27/2016	1
Ethylene Dibromide	ND		1.00	0.0925	µg/L		4/27/2016	4/27/2016	1
Iodomethane	ND		10.00	0.1286	µg/L		4/27/2016	4/27/2016	1
Isopropylbenzene	ND		1.00	0.1144	µg/L		4/27/2016	4/27/2016	1
o-Xylene	ND		1.00	0.0886	µg/L		4/27/2016	4/27/2016	1
p,m-Xylene	ND		1.00	0.0769	µg/L		4/27/2016	4/27/2016	1
sec-Butylbenzene	ND		1.00	0.3196	µg/L		4/27/2016	4/27/2016	1
tert-Butylbenzene	ND		1.00	0.2687	µg/L		4/27/2016	4/27/2016	1
Tetrachloroethene	ND		1.00	0.2097	µg/L		4/27/2016	4/27/2016	1
Toluene	ND		1.00	0.1277	µg/L		4/27/2016	4/27/2016	1
trans-1,2 Dichloroethene	ND		1.00	0.1374	µg/L		4/27/2016	4/27/2016	1
trans-1,3-Dichloropropene	ND		1.00	0.0344	µg/L		4/27/2016	4/27/2016	1
Trichloroethene	ND		1.00	0.2785	µg/L		4/27/2016	4/27/2016	1
Trichlorofluoromethane	ND		1.00	0.2881	µg/L		4/27/2016	4/27/2016	1

Surrogates	*% Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*105.7*	*86-115*	

Client Sample Results

Client Sample ID: TB-1

Biota Sample ID: SX160088

Date Collected: 4/21/2016

Date Received: 4/21/2016

Matrix: Water

Method: EPA 8260

Analyte	Results	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Factor
1,1,1-Trichloroethane	ND		1.00	0.1297	µg/L		4/27/2016	4/27/2016	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.1373	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	ND		1.00	0.1045	µg/L		4/27/2016	4/27/2016	1
1,1,2-Trichloroethane	ND		1.00	0.1465	µg/L		4/27/2016	4/27/2016	1
1,1,-Dichloroethane	ND		1.00	0.0435	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloroethene	ND		1.00	0.1083	µg/L		4/27/2016	4/27/2016	1
1,1-Dichloropropene	ND		1.00	0.1233	µg/L		4/27/2016	4/27/2016	1
1,2-Dichlorobenzene	ND		1.00	0.1164	µg/L		4/27/2016	4/27/2016	1
1,2-Dichloropropane	ND		1.00	0.0636	µg/L		4/27/2016	4/27/2016	1
1,3,5-Trimethylbenzene	ND		1.00	0.0792	µg/L		4/27/2016	4/27/2016	1
1,3-Dichlorobenzene	ND		1.00	0.4429	µg/L		4/27/2016	4/27/2016	1
4-Chlorotoluene	ND		1.00	0.2154	µg/L		4/27/2016	4/27/2016	1
4-Isopropyltoluene	ND		1.00	0.1116	µg/L		4/27/2016	4/27/2016	1
Benzene	ND		1.00	0.0493	µg/L		4/27/2016	4/27/2016	1
Bromochloromethane	ND		1.00	0.0342	µg/L		4/27/2016	4/27/2016	1
Bromodichloromethane	ND		1.00	0.1927	µg/L		4/27/2016	4/27/2016	1
Bromoform	ND		1.00	0.2638	µg/L		4/27/2016	4/27/2016	1
Bromomethane	ND		1.00	0.4693	µg/L		4/27/2016	4/27/2016	1
Carbon disulfide	ND		1.00	0.1966	µg/L		4/27/2016	4/27/2016	1
Chlorobenzene	ND		1.00	0.0597	µg/L		4/27/2016	4/27/2016	1
Chlorodibromomethane	ND		1.00	0.2212	µg/L		4/27/2016	4/27/2016	1
Chloroethane	ND		1.00	0.2082	µg/L		4/27/2016	4/27/2016	1
Chloroform	ND		1.00	0.0628	µg/L		4/27/2016	4/27/2016	1
cis-1,3-Dichloropropene	ND		1.00	0.0368	µg/L		4/27/2016	4/27/2016	1
Dibromomethane	ND		1.00	0.0987	µg/L		4/27/2016	4/27/2016	1
Dichlorodifluoromethane	ND		1.00	0.1079	µg/L		4/27/2016	4/27/2016	1
Ethylbenzene	ND		1.00	0.0854	µg/L		4/27/2016	4/27/2016	1
Ethylene Dibromide	ND		1.00	0.0925	µg/L		4/27/2016	4/27/2016	1
Iodomethane	ND		10.00	0.1286	µg/L		4/27/2016	4/27/2016	1
Isopropylbenzene	ND		1.00	0.1144	µg/L		4/27/2016	4/27/2016	1
o-Xylene	ND		1.00	0.0886	µg/L		4/27/2016	4/27/2016	1
p,m-Xylene	ND		1.00	0.0769	µg/L		4/27/2016	4/27/2016	1
sec-Butylbenzene	ND		1.00	0.3196	µg/L		4/27/2016	4/27/2016	1
tert-Butylbenzene	ND		1.00	0.2687	µg/L		4/27/2016	4/27/2016	1
Tetrachloroethene	ND		1.00	0.2097	µg/L		4/27/2016	4/27/2016	1
Toluene	ND		1.00	0.1277	µg/L		4/27/2016	4/27/2016	1
trans-1,2 Dichloroethene	ND		1.00	0.1374	µg/L		4/27/2016	4/27/2016	1
trans-1,3-Dichloropropene	ND		1.00	0.0344	µg/L		4/27/2016	4/27/2016	1
Trichloroethene	ND		1.00	0.2785	µg/L		4/27/2016	4/27/2016	1
Trichlorofluoromethane	ND		1.00	0.2881	µg/L		4/27/2016	4/27/2016	1

Surrogates	*% Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*108.8*	*86-115*	

QC Data

Client Sample ID: Method Blank

Biota Sample ID: Method Blank
Matrix: Water
QC Batch: QC11716-A

Method: EPA 200.8

Analyte	Results	Unit	D	Qualifier	Analyzed	Dil. Factor
Chromium	ND	µg/L			4/27/2016	1

Client Sample ID: Laboratory Control Sample

Biota Sample ID: LCS
Matrix: Water
QC Batch: QC11716-A

Method: EPA 200.8

Analyte	Results	Target Concentration	% Recovery	% Recovery Limits	Unit	D	Qualifier	Analyzed	Dil. Factor
Chromium	103.8	100	103.8	80-120%	µg/L			4/27/2016	1

Client Sample ID: Sample Spike

Biota Sample ID: Spike
Matrix: Water
QC Batch: QC11716-A

Method: EPA 200.8

Analyte	Results	Spike Concentration	Spike Result	% Recovery	% Recovery Limits	Unit	D	Qualifier	Analyzed
Chromium	1.35	50	39.7	76.7	75 - 130	µg/L			4/27/2016

Client Sample ID: Sample Duplicate

Biota Sample ID: Duplicate
Matrix: Water
QC Batch: QC11716-A

Method: EPA 200.8

Analyte	Results	Duplicate Result	RPD	RPD Limits	Unit	D	Qualifier	Analyzed
Chromium	1.2	1.26	5	20	µg/L			4/27/2016

QC Data

Client Sample ID: Method Blank

Biota Sample ID: Method Blank
Matrix: Water
QC Batch: QC11716-B

Method: EPA 8260

Analyte	Results	Qualifier	Unit	D	Analyzed	Dil. Factor
1,1,1-Trichloroethane	ND		µg/L		4/27/2016	1
1,1,2,2-Tetrachloroethane	ND		µg/L		4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	ND		µg/L		4/27/2016	1
1,1,2-Trichloroethane	ND		µg/L		4/27/2016	1
1,1,-Dichloroethane	ND		µg/L		4/27/2016	1
1,1-Dichloroethene	ND		µg/L		4/27/2016	1
1,1-Dichloropropene	ND		µg/L		4/27/2016	1
1,2-Dichlorobenzene	ND		µg/L		4/27/2016	1
1,2-Dichloropropane	ND		µg/L		4/27/2016	1
1,3,5-Trimethylbenzene	ND		µg/L		4/27/2016	1
1,3-Dichlorobenzene	ND		µg/L		4/27/2016	1
4-Chlorotoluene	ND		µg/L		4/27/2016	1
4-Isopropyltoluene	ND		µg/L		4/27/2016	1
Benzene	ND		µg/L		4/27/2016	1
Bromochloromethane	ND		µg/L		4/27/2016	1
Bromodichloromethane	ND		µg/L		4/27/2016	1
Bromoform	ND		µg/L		4/27/2016	1
Bromomethane	ND		µg/L		4/27/2016	1
Carbon disulfide	ND		µg/L		4/27/2016	1
Chlorobenzene	ND		µg/L		4/27/2016	1
Chlorodibromomethane	ND		µg/L		4/27/2016	1
Chloroethane	ND		µg/L		4/27/2016	1
Chloroform	ND		µg/L		4/27/2016	1
cis-1,3-Dichloropropene	ND		µg/L		4/27/2016	1
Dibromomethane	ND		µg/L		4/27/2016	1
Dichlorodifluoromethane	ND		µg/L		4/27/2016	1
Ethylbenzene	ND		µg/L		4/27/2016	1
Ethylene Dibromide	ND		µg/L		4/27/2016	1
Iodomethane	ND		µg/L		4/27/2016	1
Isopropylbenzene	ND		µg/L		4/27/2016	1
o-Xylene	ND		µg/L		4/27/2016	1
p,m-Xylene	ND		µg/L		4/27/2016	1
sec-Butylbenzene	ND		µg/L		4/27/2016	1
tert-Butylbenzene	ND		µg/L		4/27/2016	1
Tetrachloroethene	ND		µg/L		4/27/2016	1
Toluene	ND		µg/L		4/27/2016	1
trans-1,2 Dichloroethene	ND		µg/L		4/27/2016	1
trans-1,3-Dichloropropene	ND		µg/L		4/27/2016	1
Trichloroethene	ND		µg/L		4/27/2016	1
Trichlorofluoromethane	ND		µg/L		4/27/2016	1

Surrogates	*% Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*108.8*	*86-115*	

QC Data

Client Sample ID: Laboratory Control Sample

Biota Sample ID: LCS
Matrix: Water
QC Batch: QC11716-B

Method: EPA 8260

Analyte	Results	Target Concentration	% Recovery	% Recovery Limits	Unit	D	Qualifier	Analyzed	Dil. Factor
1,1,1-Trichloroethane	56.73	50	113.46	70-130	µg/L			4/27/2016	1
1,1,2,2-Tetrachloroethane	44.09	50	88.18	70-130	µg/L			4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	45.95	50	91.90	70-130	µg/L			4/27/2016	1
1,1,2-Trichloroethane	52.01	50	104.02	70-130	µg/L			4/27/2016	1
1,1,-Dichloroethane	58.29	50	116.58	70-130	µg/L			4/27/2016	1
1,1-Dichloroethene	57.85	50	115.70	70-130	µg/L			4/27/2016	1
1,1-Dichloropropene	43.8	50	87.60	70-130	µg/L			4/27/2016	1
1,2-Dichlorobenzene	54.95	50	109.90	70-130	µg/L			4/27/2016	1
1,2-Dichloropropane	36.21	50	72.42	70-130	µg/L			4/27/2016	1
1,3,5-Trimethylbenzene	55.90	50	111.80	70-130	µg/L			4/27/2016	1
1,3-Dichlorobenzene	50.81	50	101.62	70-130	µg/L			4/27/2016	1
4-Chlorotoluene	59.25	50	118.50	70-130	µg/L			4/27/2016	1
4-Isopropyltoluene	52.24	50	104.48	70-130	µg/L			4/27/2016	1
Benzene	48.44	50	96.88	70-130	µg/L			4/27/2016	1
Bromochloromethane	61.50	50	123.00	70-130	µg/L			4/27/2016	1
Bromodichloromethane	53.49	50	106.97	70-130	µg/L			4/27/2016	1
Bromoform	65.67	50	131.34	70-130	µg/L		B1	4/27/2016	1
Bromomethane	40.36	50	80.72	70-130	µg/L			4/27/2016	1
Carbon disulfide	39.65	50	79.30	70-130	µg/L			4/27/2016	1
Chlorobenzene	54.39	50	108.78	70-130	µg/L			4/27/2016	1
Chlorodibromomethane	65.67	50	131.34	70-130	µg/L		B1	4/27/2016	1
Chloroethane	40.36	50	80.72	70-130	µg/L			4/27/2016	1
Chloroform	39.65	50	79.30	70-130	µg/L			4/27/2016	1
cis-1,3-Dichloropropene	45.21	50	90.42	70-130	µg/L			4/27/2016	1
Dibromomethane	53.87	50	107.75	70-130	µg/L			4/27/2016	1
Dichlorodifluoromethane	37.33	50	74.67	70-130	µg/L			4/27/2016	1
Ethylbenzene	53.16	50	106.32	70-130	µg/L			4/27/2016	1
Ethylene Dibromide	57.98	50	115.96	70-130	µg/L			4/27/2016	1
Iodomethane	22.92	50	45.85	70-130	µg/L		B1	4/27/2016	1
Isopropylbenzene	54.54	50	109.07	70-130	µg/L			4/27/2016	1
o-Xylene	52.29	50	104.58	70-130	µg/L			4/27/2016	1
p,m-Xylene	105.41	100	105.41	70-130	µg/L			4/27/2016	1
sec-Butylbenzene	53.54	50	107.08	70-130	µg/L			4/27/2016	1
tert-Butylbenzene	52.53	50	105.06	70-130	µg/L			4/27/2016	1
Tetrachloroethene	46.59	50	93.17	70-130	µg/L			4/27/2016	1
Toluene	52.19	50	104.38	70-130	µg/L			4/27/2016	1
trans-1,2 Dichloroethene	57.37	50	114.74	70-130	µg/L			4/27/2016	1
trans-1,3-Dichloropropene	43.61	50	87.22	70-130	µg/L			4/27/2016	1
Trichloroethene	48.19	50	96.38	70-130	µg/L			4/27/2016	1
Trichlorofluoromethane	47.72	50	95.45	70-130	µg/L			4/27/2016	1

Surrogates	*% Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*99.2*	*86-115*	

QC Data

Client Sample ID: Sample Duplicate

Biota Sample ID: Dup
Matrix: Water
QC Batch: QC11716-B

Method: EPA 8260

Analyte	Results	Duplicate Result	RPD	RPD Limits	Unit	D	Qualifier	Analyzed	Dil. Factor
1,1,1-Trichloroethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,1,2,2-Tetrachloroethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,1,2-Trichloro-1,2,2-trifluor	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,1,2-Trichloroethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,1,-Dichloroethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,1-Dichloroethene	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,1-Dichloropropene	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,2-Dichlorobenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,2-Dichloropropane	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,3,5-Trimethylbenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
1,3-Dichlorobenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
4-Chlorotoluene	ND	ND	1	20.0000	µg/L			4/27/2016	1
4-Isopropyltoluene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Benzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Bromobenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Bromochloromethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Bromodichloromethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Bromoform	ND	ND	1	20.0000	µg/L			4/27/2016	1
Carbon disulfide	ND	ND	1	20.0000	µg/L			4/27/2016	1
Chlorobenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Chlorodibromomethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Chloroethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Chloroform	ND	ND	1	20.0000	µg/L			4/27/2016	1
cis-1,3-Dichloropropene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Dibromomethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Dichlorodifluoromethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Ethylbenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Ethylene Dibromide	ND	ND	1	20.0000	µg/L			4/27/2016	1
Iodomethane	ND	ND	1	20.0000	µg/L			4/27/2016	1
Isopropylbenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
o-Xylene	ND	ND	1	20.0000	µg/L			4/27/2016	1
p,m-Xylene	ND	ND	1	20.0000	µg/L			4/27/2016	1
sec-Butylbenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
tert-Butylbenzene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Tetrachloroethene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Toluene	ND	ND	1	20.0000	µg/L			4/27/2016	1
trans-1,2 Dichloroethene	ND	ND	1	20.0000	µg/L			4/27/2016	1
trans-1,3-Dichloropropene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Trichloroethene	ND	ND	1	20.0000	µg/L			4/27/2016	1
Trichlorofluoromethane	ND	ND	1	20.0000	µg/L			4/27/2016	1

Surrogates	*% Recovery*	*Dup % Recovery*	*Limits*	*Qualifier*
Bromofluorobenzene	*99.2*	*108.4*	*86-115*	

Certification Summary

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina	State Program		683	

*The following analyses are included in this report, however, certification is not held by the testing laboratory.

Method	Analysis

Biota Diagnostics

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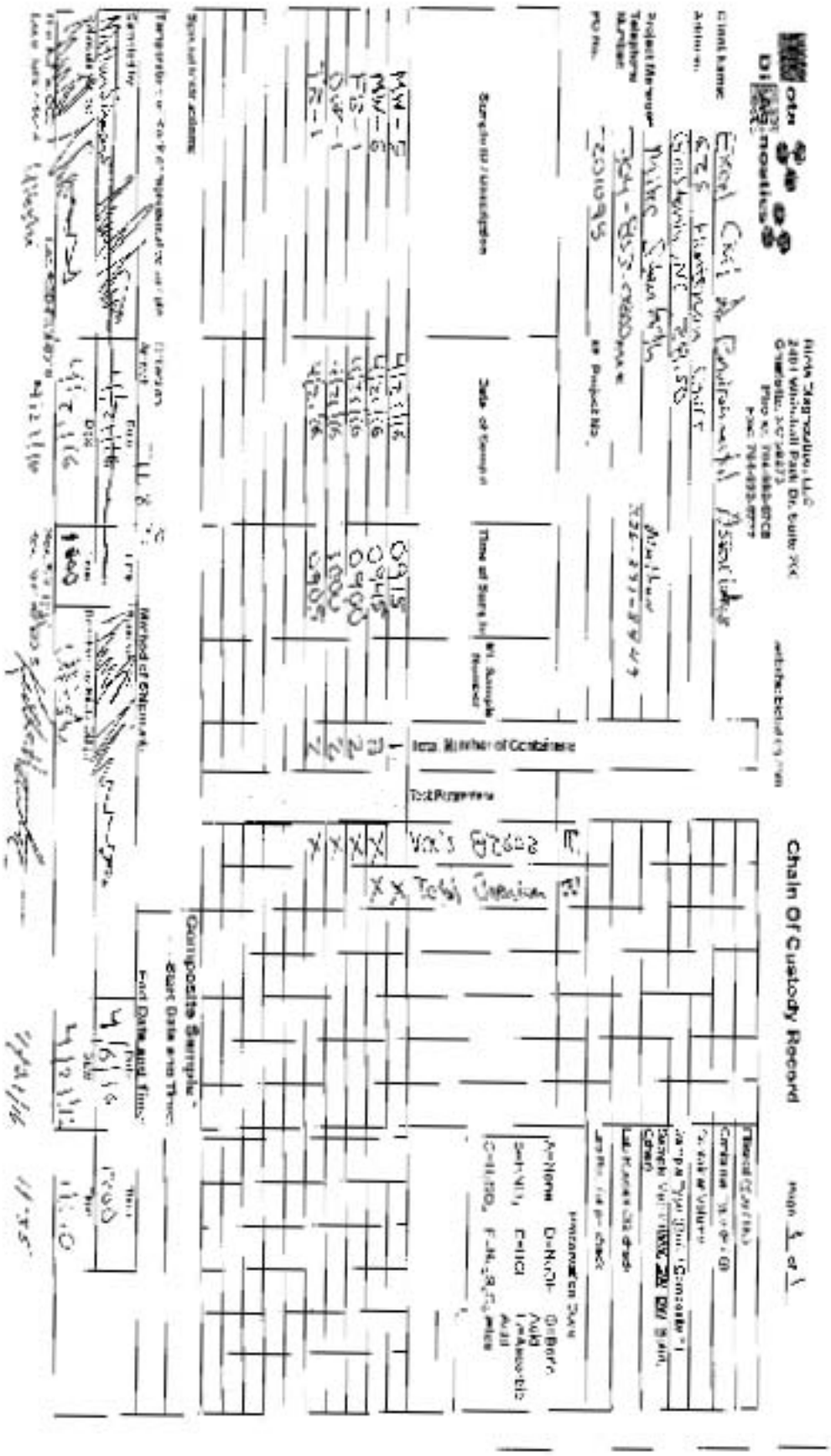
Fax: 704-992-0777

Website: biotadiag.com



Chain Of Custody Record

Page 1 of 1

Client Name: Excel Civil & Environmental Associates
Address: 625 Huntington Court
Greensboro, NC 28150
Project Manager: Mike Stanfield
Telephone Number: 704-853-0800 Mike
Nathan 336-291-8949
PO No.: 201095
Project No.:

Filtered (Yes / No)
Container Type (P / G)
Container Volume
Sample Type (Grab / Composite)
Sample Vol. (1000, 500, 250, 500, Other)
Lab Number (Z2 check)
Lab No. (Lab p-check)

Preservation Dues
A=None D=NaOH G=Boric Acid
B=HNO3 E=HCl H=Ascorbic Acid
C=H2SO4 F=Na2S2O3 Ice

Sample ID / Description	Date of Sample	Time of Sample	Wt. Sample Number	Total Number of Containers	Test Parameters	Vol's 8260B	Total Carbon
MW-5	4/21/16	0915		1		X	X
MW-6	4/21/16	0945		2		X	X
FB-1	4/21/16	0900		2		X	
DUP-1	4/21/16	1000		2		X	
TR-1	4/21/16	0905		2		X	

Special Instructions:

Composite Sample:
Start Date and Time:
End Date and Time:

Temperature of Cooler at Sample Collection Arrival: 11.8 °C
Method of Shipment:

Sampled by	Date	Time	Received by	Date	Time
[signature]	4/21/16		[signature]	4/6/16	1200
Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/21/16	1000	[signature]	4/21/16	1110
Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/21/16		[signature]	4/21/16	11:35

Cooler Receipt Form

Client: Excel Civil & Environmental Assoc

Cooler Received/Opened On: 4/21/16

1) Tracking Number: NA (last 4 digits)

Courier: Grote

2) Temp. of Rep. Sx or Temp. of Blank when opened: 11.5°C — Degrees Celsius

3) If Item #2 temp. is < 0° C, was rep. sx or temp. blank frozen?	Yes	No	NA
4) Were custody seals in place?	Yes	No	NA
If yes, how many and where?			
5) Were the seals intact, signed, and dated correctly?	Yes	No	NA
6) Were custody papers inside cooler?	Yes	No	NA
I certify that I opened the cooler and answered questions 1-6 (initial)	NG		
7) Were custody seals on outer cooler? Yes No and intact	Yes	No	NA
Were these signed and dated correctly?	Yes	No	NA

8) Packing Mat'l used? Bubblewrap Plastic Bag Peanuts Vermiculite Foam Insert Paper Other None

9) Cooling process? Ice Ice Pack Dry Ice Other None

10) Did all containers arrive in good condition, unbroken?	Yes	No	NA
11) Were all container labels complete (#, date, signed, pres.)?	Yes	No	NA
12) Did all container labels and tags agree with COC?	Yes	No	NA
13) a. Were VOA vials received?	Yes	No	NA
b. Was there any observable headspace in any VOA vial?	Yes	No	NA
14) Was there a trip blank in this cooler?	Yes	No	NA
I certify that I unloaded the cooler and answered questions 7-14 (initial)	NG		
15) a. On preside bottles, did pH test strips suggest preservation reached the correct pH level?	Yes	No	NA
b. Did the bottle labels indicate the correct perceives were used?	Yes	No	NA
16) Was residual chlorine present?	Yes	No	NA
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)	NG		
17) Were custody papers properly filled out (ink, signed, etc)?	Yes	No	NA
18) Did you sign the custody papers in the appropriate place?	Yes	No	NA
19) Were correct containers used for analysis requested?	Yes	No	NA
20) Was sufficient amount of sample sent in each container?	Yes	No	NA
I certify that I entered this project into the logbook (initial)?	NG		
I certify that I labeled each container with appropriate sample ID (initial)	NG		
21) a. Were there Non-Conformances issues at login?	Yes	No	NA
b. Was the client and/or regulatory body notified?	Yes	No	NA

Document Name: Cooler Receipt Form — Revision Number: 1

Document Number: BD-FRM-0002 — Revision Date: 9/14/2015

Issue Date: 1/15/2015