



Sample Receiving Non-Conformance Form (NCF)

Date: 11/18/21
 Client: SCDHEC
 Evaluated by: MS

AWO#: 92573219
 PH: LMW
 CLIENT: 92-SCDHEC
 Due Date: 11/24/21
 er
 ice

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate.

<input checked="" type="checkbox"/> Collection date/time missing or incorrect	Analysis or analytes: missing or clarification needed	<input checked="" type="checkbox"/> Samples listed on COC do not match samples received (missing, additional, etc.)
<input type="checkbox"/> Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other issues not listed above:
 MW 02, MW 03, and UNK-2 listed as DNS on chain, 6 DATA vials received for each sample. UNK 1 not received. No dates/times on any containers

3. Sample integrity issues: check applicable issues below and add details where appropriate:

<input type="checkbox"/> Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
<input type="checkbox"/> Samples: Not field filtered	<input checked="" type="checkbox"/> Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
<input type="checkbox"/> Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
<input type="checkbox"/> Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	<input checked="" type="checkbox"/> Vials received with improper headspace
<input type="checkbox"/> Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details: Headspace in 1 MW-03, 1 PM IR, 3 DUW-4 vials
 1 MW-43 vial arrived cracked

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:

November 24, 2021

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CLOUDS CHEVRON GAC

Pace Project No.: 92573319

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92573319001	GAC	Water	11/15/21 14:35	11/17/21 11:05

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SAMPLE ANALYTE COUNT

Project: CLOUDS CHEVRON GAC

Pace Project No.: 92573319

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92573319001	GAC	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

Sample: GAC									
Lab ID: 92573319001 Collected: 11/15/21 14:35 Received: 11/17/21 11:05 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	11/23/21 11:55	11/23/21 21:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	11/23/21 11:55	11/23/21 21:51	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		11/19/21 21:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		11/19/21 21:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/19/21 21:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		11/19/21 21:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		11/19/21 21:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		11/19/21 21:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		11/19/21 21:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		11/19/21 21:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		11/19/21 21:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		11/19/21 21:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		11/19/21 21:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		11/19/21 21:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		11/19/21 21:45	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		11/19/21 21:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/19/21 21:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		11/19/21 21:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		11/19/21 21:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/19/21 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		11/19/21 21:45	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		11/19/21 21:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

QC Batch: 661150	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92573319001

METHOD BLANK: 3464152 Matrix: Water

Associated Lab Samples: 92573319001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	11/19/21 16:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	11/19/21 16:39	
Benzene	ug/L	ND	5.0	1.7	11/19/21 16:39	
Diisopropyl ether	ug/L	ND	5.0	3.5	11/19/21 16:39	
Ethanol	ug/L	ND	200	144	11/19/21 16:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	11/19/21 16:39	
Ethylbenzene	ug/L	ND	5.0	1.8	11/19/21 16:39	
m&p-Xylene	ug/L	ND	10.0	4.1	11/19/21 16:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	11/19/21 16:39	
Naphthalene	ug/L	ND	5.0	2.1	11/19/21 16:39	
o-Xylene	ug/L	ND	5.0	2.0	11/19/21 16:39	
tert-Amyl Alcohol	ug/L	ND	100	65.6	11/19/21 16:39	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	11/19/21 16:39	
tert-Butyl Alcohol	ug/L	ND	100	91.0	11/19/21 16:39	
tert-Butyl Formate	ug/L	ND	50.0	24.1	11/19/21 16:39	
Toluene	ug/L	ND	5.0	2.0	11/19/21 16:39	
Xylene (Total)	ug/L	ND	5.0	5.0	11/19/21 16:39	
1,2-Dichloroethane-d4 (S)	%	87	70-130		11/19/21 16:39	
4-Bromofluorobenzene (S)	%	100	70-130		11/19/21 16:39	
Toluene-d8 (S)	%	108	70-130		11/19/21 16:39	

LABORATORY CONTROL SAMPLE: 3464153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.0	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1140	114	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	52.9	106	70-130	
Ethanol	ug/L	2000	2020	101	70-130	
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	55.1	110	70-130	
Naphthalene	ug/L	50	57.5	115	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	539	108	70-130	
tert-Butyl Formate	ug/L	400	399	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

LABORATORY CONTROL SAMPLE: 3464153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	49.0	98	70-130	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			126	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464154 3464155

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92572987018 Result	Spike Conc.	Spike Conc.	MS Result								
1,2-Dichloroethane	ug/L	ND	20	20	19.0	18.6	95	93	70-137	2	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	426	386	106	97	39-157	10	30		
Benzene	ug/L	ND	20	20	18.7	18.3	94	92	70-151	2	30		
Diisopropyl ether	ug/L	ND	20	20	17.4	15.9	87	79	63-144	9	30		
Ethanol	ug/L	ND	800	800	838	784	105	98	39-176	7	30		
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.5	33.5	89	84	66-137	6	30		
Ethylbenzene	ug/L	ND	20	20	17.5	16.4	87	82	66-153	6	30		
m&p-Xylene	ug/L	ND	40	40	33.6	30.7	84	77	69-152	9	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	16.7	17.2	84	86	54-156	3	30		
Naphthalene	ug/L	ND	20	20	12.7	10.4	63	52	61-148	20	30	M1	
o-Xylene	ug/L	ND	20	20	16.3	15.1	82	76	70-148	8	30		
tert-Amyl Alcohol	ug/L	ND	400	400	372	347	93	87	54-153	7	30		
tert-Amylmethyl ether	ug/L	ND	40	40	37.2	35.4	93	88	69-139	5	30		
tert-Butyl Alcohol	ug/L	ND	200	200	247	247	123	123	43-188	0	30		
tert-Butyl Formate	ug/L	ND	160	160	33.9J	33.3J	21	21	10-170		30		
Toluene	ug/L	ND	20	20	17.9	17.4	90	87	59-148	3	30		
Xylene (Total)	ug/L	ND	60	60	49.9	45.8	83	76	63-158	9	30		
1,2-Dichloroethane-d4 (S)	%							102	100	70-130			
4-Bromofluorobenzene (S)	%							103	101	70-130			
Toluene-d8 (S)	%							103	102	70-130			

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QUALITY CONTROL DATA

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

QC Batch: 661774 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92573319001

METHOD BLANK: 3467235 Matrix: Water
Associated Lab Samples: 92573319001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	11/23/21 19:54	
1-Chloro-2-bromopropane (S)	%	98	60-140		11/23/21 19:54	

LABORATORY CONTROL SAMPLE & LCSD: 3467236

Parameter	Units	3467237		3467237		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.26	107	103	60-140	4	20
1-Chloro-2-bromopropane (S)	%				108	105	60-140		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467239 3467240

Parameter	Units	92573241017		3467240		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.30	117	118	60-140	0	20
1-Chloro-2-bromopropane (S)	%						112	109	60-140		

SAMPLE DUPLICATE: 3467238

Parameter	Units	92573241016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	108	106			

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QUALIFIERS

Project: CLOUDS CHEVRON GAC
Pace Project No.: 92573319

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLOUDS CHEVRON GAC

Pace Project No.: 92573319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92573319001	GAC	EPA 8011	661774	EPA 8011	661936
92573319001	GAC	EPA 8260D	661150		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

LAB USE: **MO#: 92573319**

Member or

Company: SCOTEC
Address: 2600 Ryan Street
City: Dallas, TX

Email To: Drumner@dhcc.com
Site Collection Info/Address: Keyser Street & ...

Container Preservative Type: **
3 3

Lab Project Manager:

Customer Project Name/Number: Chavis Chevron

State: TX County/City: Galveston Time Zone Collected: MT

Analyses

Lab Profile/Line:
Lab Sample Receipt Checklist:

Phone: 409-777-0777 Site/Facility ID #: CA#63202
Purchase Order #: CA#63202 Compliance Monitoring? [] Yes [] No
Quote #: CA#63202 DW PWS ID #:
Turnaround Date Required: DW Location Code:
Immediately Packed on Ice: Yes [] No []

Field Filtered (if applicable): [] Yes [] No
Analysis:

Custody Seals Present/Intact: Y N NA
Custody Signatures Present: Y N NA
Collector Signature Present: Y N NA
Bottles Intact: Y N NA
Correct Bottles: Y N NA
Sufficient Volume: Y N NA
Samples Received on Ice: Y N NA
VOA - Headspace Acceptable: Y N NA
USDA Regulated Solids: Y N NA
Samples in Holding Time: Y N NA
Residual Chlorine Present: Y N NA
CI Strips: Y N NA
Sample pH Acceptable: Y N NA
pH Strips: Y N NA
Sulfide Present: Y N NA
Lead Acetate Strips: Y N NA

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Biossary (B), Vapor (V), Other (OT)

LAB USE ONLY:
Lab Sample # / Comments: 92573319
GAC D01
TB1
TB2

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite Start		Composite End		Res CI	# of Cins
			Date	Time	Date	Time		
GAC	GW	G	11/15/21	14:35			6	X
TB-1	GW	G		8:00			2	X
TB-2	GW	G		8:00			2	X

Type of Ice Used:	Blue	DRY	None
<u>Water</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Lab Tracking #: **2546708**

SHORT HOLDS PRESENT (<72 hours): Y NA

Packing Material Used: bubble wrap
Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client
Courier: Pace Courier
MTL LAB USE ONLY

Lab Sample Temperature Info:
Temp Blank Received: NA
Therm ID#: 92706 NA
Cooler 1 Therm Upon Receipt: 48 OC
Cooler 1 Therm Corr. Factor: 0 OC
Cooler 1 Corrected Temp: 48 OC
Comments:

Signature: [Signature] Date/Time: 11/17/21 18:21
Signature: [Signature] Date/Time: 11/17/21 18:21

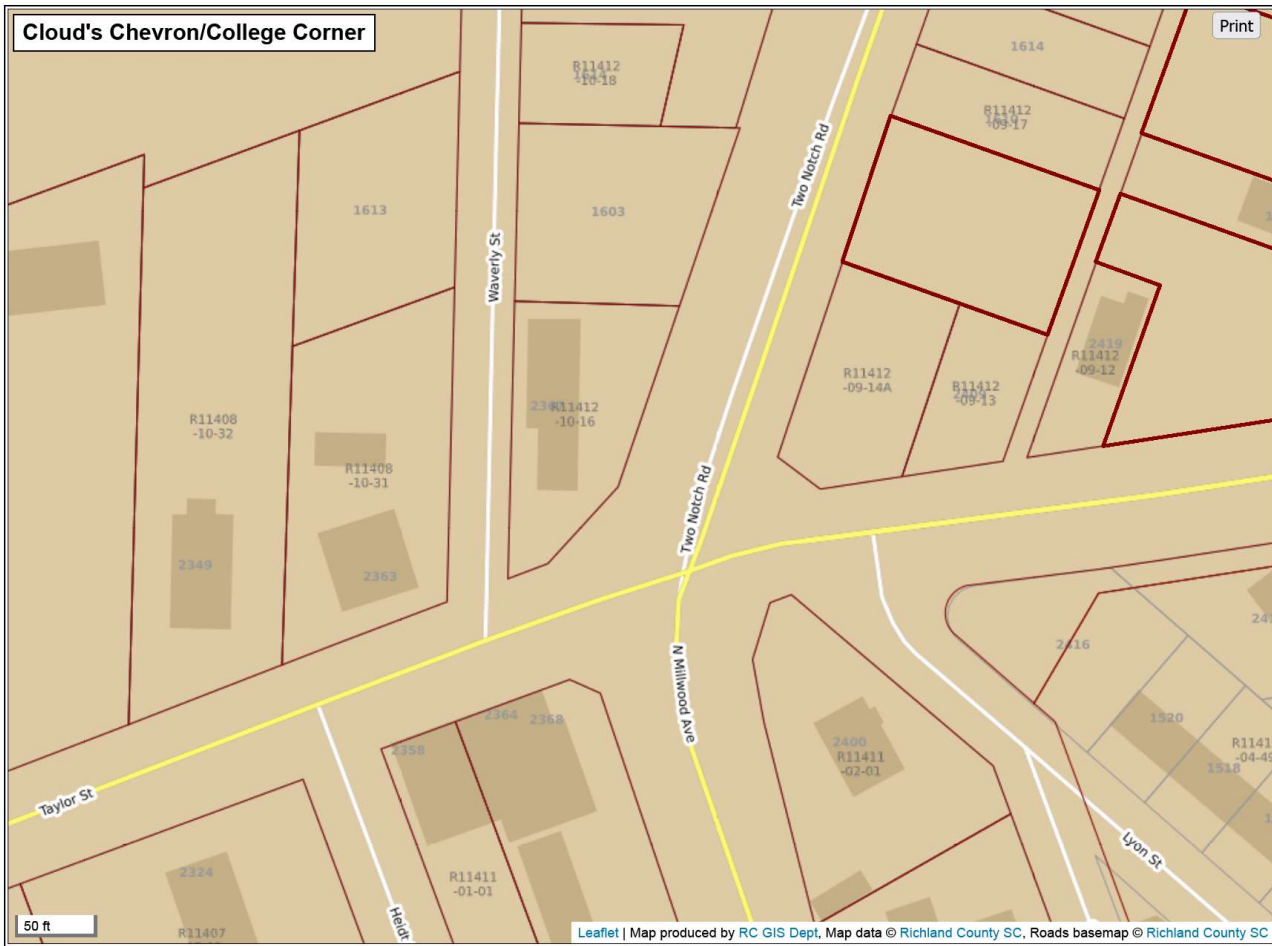
Signature: [Signature] Date/Time: 11/17/21 11:05
Signature: [Signature] Date/Time: 11/18/21 08:00

Temp Blank Received: Y N NA
HCl MeOH TSP Other:
Non Contaminant(s): YES NO Page: of:

MS 11/18/21

APPENDIX B:

TAX MAP



APPENDIX C:
DISPOSAL MANIFEST



November 29, 2021

Re: Treatment of Purge Water
Cloud's Chevron/College Corner
Columbia, South Carolina
SCDHEC Site ID Number 07777, 12352, 07584
MECI Project Number 21-7651

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

A total of 243.50 gallons were treated on November 15, 2021 at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist

**APPENDIX D:
ACCESS AGREEMENTS**



2600 Bull Street
Columbia, SC 29201-1708

PROPERTY OWNER

RIGHT OF ENTRY - UST Permit # 07777 and # 12352

If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, Sisters of Charity Providence Hospitals is the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (SCDHEC), or a contractor selected by SCDHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that SCDHEC will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request. ("I" as used herein is synonymous with "Owner".)

Name of Facility Providence Hospital Phone: (803) 256-5313

Street Address of Facility 2435 Forest Drive, Columbia, SC 29204

Town, City, District, Suburb City of Columbia - ICC Tax District

Name of nearest intersecting street, road, highway, alley Two Notch Road, Forest Drive

Is this facility within the city limits? (yes or no) Yes

Is this facility serviced by a public water or sewer utility? (yes or no) yes, if no, please provide the name of a person we can contact that can assist in the location of private water and septic tank lines
Name City of Columbia, phone number water - (803) 545-3900
sewer - (803) 545-3910

Were underground storage tanks previously removed from the ground at this facility? (yes or no) Yes
yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation See below, Phone number _____

Is the property currently leased or rented to someone? (yes or no) No, if yes, please provide their name _____ and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of property owner (Please Print): Sisters of Charity Providence Hospitals

Phone Number (home) _____ (work) (803) 256-5313

Current Mailing Address 2435 Forest Drive, Columbia, SC 29204

Signature of Property Owner: By: Stephen A. Purves
Sisters of Charity Providence Hospitals
Stephen A. Purves - President & CEO

Witness: [Signature] [Signature]

Date: April Month 15th Day 2003 Year

These USTs were previously reported to SCDHEC and there are monitoring wells on the site. Please refer to SCDHEC files on UST permits # 07777 and # 12352. See also portion of plat attached.



CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

FAXED
619 977-0051

*7th Reader
996.6715
Superintendent
259.6084*

*2-2
1-2*

I, William L. Boyd II, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Richland County Tax Parcel Number R11411-02-02, for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

RECEIVED

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

MAR 02 2005

UNDERGROUND STORAGE
TANK PROGRAM

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie

Company Representative

1-17-05

Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

[Signature]
Property Owner's Signature

W.L. Boyd II
Printed Name

Access Denied:

Property Owner's Signature

UST PROGRAM
DOCKETING# 149 Tech

APPENDIX E:
DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?			X
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figure 3)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix A)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 3)	X		
40	Has the site potentiometric map been provided? (Figure 4)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements?			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix B)			X
47	Have the soil boring/field screening logs been provided?			X
48	Have the well completion logs and SCDHEC Form 1903 been provided?			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			X
50	Have the disposal manifests been provided? (Appendix C)			X
51	Has a copy of the local zoning regulations been provided?			X
52	Has all fate and transport modeling been provided?			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix D)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix E)	X		

APPENDIX F:
PHOTOS



SW-1























CERTIFIED MAIL 9214 8969 0099 9790 1422 2961 53

CHARLES CRAWFORD
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVE NW
ROANOKE VA 24017

SEP 28 2022

Re: **Notification for Breach of Contract**

UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC

Release #1 reported January 30, 1991; CA# 47811

Release #2 reported April 17, 1998; CA# 47812

UST Permit# 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 31, 1991; CA# 47813

UST Permit# 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC

Release reported December 30, 1991; CA#47814

Contract #IFB-5400007095-1/30/2014-EMW; PO #4600322226

Richland County

Dear Mr. Crawford:

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the technical files and active corrective action contract for the above-referenced releases. Under the terms of the awarded contract, one Notice of Failure to Perform (enclosed) has been issued to Crawford Environmental Services, Inc., and a Corrective Action System Evaluation (CASE) report is past due.

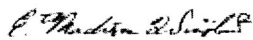
The Failure to Perform letter was sent to Crawford Environmental Services, Inc. on October 2, 2018, and you met with members of DHEC management on October 15, 2018. The last CASE report was submitted in September 2019. Since then, no further work has been performed for any of the above-referenced releases.

In accordance with section III.3.4 A 4 of the solicitation for these releases: "If the Contractor does not correct the deficiency (ies) in a satisfactory manner as specified by the Agency within the agreed to period of time, the Contractor will be in breach of contract and the contract award may be voided by the Agency." SCDHEC provides this notice that the awarded contract referenced above has been declared void for cause. Please discontinue any further activity in furtherance of performance at any of the above-referenced sites. No further payment of invoices under the contract will be made. Crawford Environmental Services, Inc., as the Contractor, will be suspended from bidding on any UST-related solicitations in South Carolina for one year. SCDHEC will rebid the above-referenced sites for further corrective action.

SCDHEC may consider any contractual remedies available to it, including seeking liquidated damages in accordance with section III. 3.4 A 6: "In the event that the contract award is voided for cause as outlined in Solicitation Item III 3.4 A 4, the Contractor will be required to pay liquidated damages equal to the costs that are incurred by the Agency over and above the Corrective Action Cost in order to complete the corrective action as specified in this contract." Crawford Environmental Services, Inc. may be notified by certified mail of the amount of liquidated damages within fifteen (15) business days following opening of the re-bid and sixty days (60) from the date of notification to make payment of the amount.

On all correspondence regarding these sites, please include a reference to "UST Permit #07584, 07777, and 12352.". Please submit any questions regarding this correspondence to me at winsloem@dhec.sc.gov.

Sincerely,



E. Madison Winslow
Procurement Manager
Division of Procurement Services
Bureau of Business Management

Enc: Notice of Failure to Perform #1 dated October 2, 2018

cc: Crawford Environmental Services, Inc. Contractor File
Adam Looper, UST Management Division
Technical Files 07584, 07777, 12352



OCT 02 2018

CERTIFIED MAIL

9214 8969 0099 9790 1412 9293 13



**MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVENUE NW
ROANOKE VA 24017-5550**

Re: Notice of Failure to Perform #1 Complaint

Invitation for Bid IFB-5400007095-1/30/2014-EMW;

Purchase Order #4600322226

UST Permit #07584 *265 tech*

College Corner, 2367 Taylor Street, Columbia, SC

Release #1 reported January 30, 1991

Release #2 reported April 17, 1998

UST Permit #07777 *199 tech*

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

Release reported December 31, 1991

UST Permit #12352 *134 tech*

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

Release reported December 30, 1991

CASE report review sent April 6, 2018

Richland County

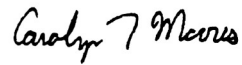
Dear Mr. Crawford:

In accordance with bid specification item III.3.4.A.4, the Underground Storage Tank (UST) Management Division is providing you with notification of your failure to perform, as you have failed to meet contract specification item III.3.5.B.8 that requires reports to be submitted on a semi-annual basis. The UST Division sent you the attached CASE report review letter which notified you that the next Corrective Action System Evaluation (CASE) report was to be submitted by **June 15, 2018** in accordance with the semi-annual CASE reporting schedule. To date, the Division has not received the required report nor has any notification been provided to the Division that problems existed in meeting the due date.

In accordance with bid specification item III.3.4.A.4, the UST Division requests that you be available for a meeting on October 15, 2018 at 2:00 PM to discuss a remedy for this deficiency, or that you submit the CASE report **within 15 days from the date of this letter**. Additionally, future CASE report due dates should not be affected. CASE reports are due on June 15 and December 15 of each year.

On all correspondence regarding this site, please reference UST Permit numbers #07584, #07777 and #12352. If you have questions concerning this correspondence, feel free to contact me by phone at (803) 898-2622, or by email at mooresct@dhec.sc.gov.

Sincerely,



Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: CASE Report Review

Cc: Matt Winslow, Bureau of Business Management
Technical File
Contractor Certification File



MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

APR 06 2018



Re: **Corrective Action System Evaluation (CASE) Report Review**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit # 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit # 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA# 47814
Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received February 28, 2018
Richland County

Dear Mr. Crawford:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the CASE report documenting the corrective action activities and the January 2018 groundwater sampling event. The CASE report has documented 36.15% Chemical of Concern (CoC) reduction.

The semi-annual CASE 8 report is due on or before **June 15, 2018**.

On all correspondence regarding this site, please reference UST Permit #07584, #07777, & #12352. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at kuhnkm@dhec.sc.gov.

Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

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(<https://informedelivery.usps.com/>)

Latest Update

Your item was delivered to an individual at the address at 12:28 pm on September 30, 2022 in ROANOKE, VA 24017.

Delivered

Delivered, Left with Individual

ROANOKE, VA 24017

September 30, 2022, 12:28 pm

[See All Tracking History](#)

Feedback

Text & Email Updates ∨

Return Receipt Electronic ∨

USPS Tracking Plus® ∨

Product Information ∨

[See Less ^](#)

Track Another Package

Enter tracking or barcode numbers



MEMORANDUM

Date: November 9, 2022

To: E. Madison Winslow, Procurement Manager
Bureau of Business Management

From: Stephanie Briney, Manager *SMB*
Corrective Action & Field Support Section
Underground Storage Tank Management Division

Subject: Contract Cancellation for Cause
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
Release #1 reported January 30, 1991; CA# 47811
Release #2 reported April 17, 1998; CA# 47812
UST Permit# 07777, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 31, 1991; CA# 47813
UST Permit# 12352, Clouds Chevron, 1600 Two Notch Rd., Columbia, SC
Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO #4600322226

The Underground Storage Tank Management Division requests that the Bureau of Business Management cancel Contract # IFB-5400007095-1/30/2014-EMW (Contract) for cause:

- Crawford Environmental Services (CES) did not complete the corrective action activities outlined in the Corrective Action Plan Addendum submitted by CES on March 14, 2019.
- One Failure to Perform (FTP) letter was issued. Following the submittal of the last Corrective Action System Evaluation (CASE) Report received on August 30, 2019, CES failed to resume work.
- A notification for Breach of Contract letter was sent September 28, 2022, and no response was received from CES.

Please cancel the Contract for cause so that DHEC may initiate efforts to re-bid the necessary work for this high-risk site. Please allow me to provide more information if more is required to cancel the Contract for cause.

enc: Notification for Breach of Contract letter dated September 28, 2022

cc: Karen Ratigan, Office of General Counsel (w/enc)
Adam Looper, UST Management Division (w/out enc)
Technical file (w/enc)



CERTIFIED MAIL 9214 8969 0099 9790 1422 2961 53

CHARLES CRAWFORD
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVE NW
ROANOKE VA 24017

Re: **Notification for Breach of Contract**
UST Permit# 07584, College Corner, 2367 Taylor St., Columbia, SC
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Release reported December 30, 1991; CA#47814
Contract #IFB-5400007095-1/30/2014-EMW; PO #4600322226
Richland County

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The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the technical files and active corrective action contract for the above-referenced releases. Under the terms of the awarded contract, one Notice of Failure to Perform (enclosed) has been issued to Crawford Environmental Services, Inc., and a Corrective Action System Evaluation (CASE) report is past due.

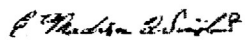
The Failure to Perform letter was sent to Crawford Environmental Services, Inc. on October 2, 2018, and you met with members of DHEC management on October 15, 2018. The last CASE report was submitted in September 2019. Since then, no further work has been performed for any of the above-referenced releases.

In accordance with section III.3.4 A 4 of the solicitation for these releases: "If the Contractor does not correct the deficiency (ies) in a satisfactory manner as specified by the Agency within the agreed to period of time, the Contractor will be in breach of contract and the contract award may be voided by the Agency." SCDHEC provides this notice that the awarded contract referenced above has been declared void for cause. Please discontinue any further activity in furtherance of performance at any of the above-referenced sites. No further payment of invoices under the contract will be made. Crawford Environmental Services, Inc., as the Contractor, will be suspended from bidding on any UST-related solicitations in South Carolina for one year. SCDHEC will rebid the above-referenced sites for further corrective action.

SCDHEC may consider any contractual remedies available to it, including seeking liquidated damages in accordance with section III. 3.4 A 6: "In the event that the contract award is voided for cause as outlined in Solicitation Item III 3.4 A 4, the Contractor will be required to pay liquidated damages equal to the costs that are incurred by the Agency over and above the Corrective Action Cost in order to complete the corrective action as specified in this contract." Crawford Environmental Services, Inc. may be notified by certified mail of the amount of liquidated damages within fifteen (15) business days following opening of the re-bid and sixty days (60) from the date of notification to make payment of the amount.

On all correspondence regarding these sites, please include a reference to "UST Permit #07584, 07777, and 12352.". Please submit any questions regarding this correspondence to me at winsloem@dhec.sc.gov.

Sincerely,



E. Madison Winslow
Procurement Manager
Division of Procurement Services
Bureau of Business Management

Enc: Notice of Failure to Perform #1 dated October 2, 2018

cc: Crawford Environmental Services, Inc. Contractor File
Adam Looper, UST Management Division
Technical Files 07584, 07777, 12352



OCT 02 2018

CERTIFIED MAIL

9214 8969 0099 9790 1412 9293 13



**MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
1701 SHENANDOAH AVENUE NW
ROANOKE VA 24017-5550**

Re: Notice of Failure to Perform #1 Complaint

Invitation for Bid IFB-5400007095-1/30/2014-EMW;

Purchase Order #4600322226

UST Permit #07584 *205 tech*

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Release reported December 31, 1991

UST Permit #12352 *134 tech*

Clouds Chevron, 1600 Two Notch Road, Columbia, SC

Release reported December 30, 1991

CASE report review sent April 6, 2018

Richland County

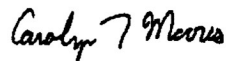
Dear Mr. Crawford:

In accordance with bid specification item III.3.4.A.4, the Underground Storage Tank (UST) Management Division is providing you with notification of your failure to perform, as you have failed to meet contract specification item III.3.5.B.8 that requires reports to be submitted on a semi-annual basis. The UST Division sent you the attached CASE report review letter which notified you that the next Corrective Action System Evaluation (CASE) report was to be submitted by **June 15, 2018** in accordance with the semi-annual CASE reporting schedule. To date, the Division has not received the required report nor has any notification been provided to the Division that problems existed in meeting the due date.

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Sincerely,



Carolyn Moores, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: CASE Report Review

Cc: Matt Winslow, Bureau of Business Management
Technical File
Contractor Certification File



MR CHARLES F CRAWFORD III
CRAWFORD ENVIRONMENTAL SERVICES
15 CHURCH AVENUE SW
ROANOKE VA 24011

APR 06 2018



Re: **Corrective Action System Evaluation (CASE) Report Review**
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Contract #IFB-5400007095-1/30/2014-EMW; PO# 4600322226
CASE report received February 28, 2018
Richland County

Dear Mr. Crawford:

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Sincerely,

Kimberly M. Kuhn, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Sylvan Food Systems, Inc., 1245 Boston Ave, West Columbia, SC 29170
Gilbert Walker, Public Housing Authority, Gonzales Gardens, P.O. Box 4307, Columbia, SC 29240
1500 Millwood Ave, LLC, 1330 Devonshire Drive, Columbia, SC 29204
John M. Suddeth, 1410 N Millwood Ave, Columbia, SC 29204
Fung Lau, 2300 Taylor St, Suite D, Columbia, SC 29204
Technical File

	<p align="center">State of South Carolina</p> <p align="center">Change Order #1</p>	PO Number 4600322226 Procurement Officer E. Madison Winslow Phone (803) 898-3487 E-Mail Address winsloem@dhec.sc.gov Address 2600 Bull Street Columbia, S. C. 29201

DESCRIPTION: Corrective action at UST Sites 07584, 07777, and 12352, Columbia, South Carolina

USING GOVERNMENTAL UNIT: South Carolina Department of Health and Environmental Control
 Division of Procurement Services

CONTRACTOR'S NAME AND ADDRESS: Crawford Environmental Services, Inc.
 15 Church Avenue, SW
 Roanoke, VA 24011

TYPE OF CHANGE:

- Change to Contract Scope of Work
- Change to Contract Pricing Pursuant to Existing Contract Clause.
 Clause Name _____ Clause No. _____
- Administrative Change to Contract (such as changes in paying office, name of Agency Contract Administrator, etc.)
- Cancellation**
- Other change

IMPORTANT NOTICE:

X Change Order: Contractor is required to sign this document and return 1 copy to the procurement officer named above by the following date: **November 21, 2022.**

Contract Modification: Contractor is required to acknowledge receipt of this document in writing by the following date: _____. Contractor does not indicate agreement with change simply by acknowledging receipt.

<p>DESCRIPTION OF CHANGE / MODIFICATION:</p> <p>Cancellation: This is an official cancellation of the above-referenced purchase order as of November 14, 2022, in accordance with section III., No. 3.4.A.4., of solicitation 5400007095. No further payment of invoices under the contract will be made.</p> <p>Except as provided herein, all terms and conditions of the Contract referenced above remain unchanged and in full force and effect.</p>	
<p>SIGNATURE OF PERSON AUTHORIZED TO EXECUTE THIS CHANGE ORDER ON BEHALF OF CONTRACTOR:</p> <p>By: <u>Daniel Fisher</u> (authorized signature)</p> <p><u>Daniel Fisher</u> (printed name of person signing above)</p> <p>Its: <u>Operations Manager</u> (title of person signing above)</p> <p>Date: <u>11/30/22</u></p>	<p>SIGNATURE OF PERSON AUTHORIZED TO EXECUTE / ISSUE THIS CHANGE ORDER / CONTRACT MODIFICATION ON BEHALF OF USING GOVERNMENTAL ENTITY:</p> <p>By: <u>[Signature]</u> (authorized signature)</p> <p><u>E. Madison Winslow</u> (printed name of person signing above)</p> <p>Its: <u>Procurement Manager</u> (title of person signing above)</p> <p>Date: <u>11/14/22</u></p>

CHANGE ORDER (AUG 2004)

[Handwritten mark]

RECEIVED
 NOV 30 2022
 UST DIVISION



CERTIFIED MAIL
9214 8969 0099 9790 1423 6328 51

FAST POINT FOOD STORES INC
2811 REIDVILLE ROAD STE 16
SPARTANBURG SC 29301

JUN 26 2023

Re: **Request for Property Access**
College Corner, 2367 Taylor Street, Columbia, SC
UST Permit #07584
Release #1 reported January 30, 1991
Release #2 reported April 17, 1998
Richland County

To Whom It May Concern :

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling are necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-7705, by fax at (803) 898-0673, or by email at wykeljm@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)



State Lead Option Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit # 07584

Facility Name: College Corner

Facility Address: 2367 Taylor Street

Facility Phone Number:

Is facility within city limits? (check yes/no) Yes No

Name of nearest intersecting street/road/highway:

Does public water/sewer utility service this facility? Yes No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: **Phone Number:**

Were USTs previously removed from the ground at this facility? Yes No

*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

Name: **Phone Number:**

Is the facility currently leased to someone? Yes No

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: **Phone Number:**

Name of Property Owner (Print):

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Signature of Property Owner or authorized representative: **Date**

Affiliation (if applicable)

Signature of Witness **Date**

Contact Info

Phone Numbers: **Home:** **Cell:**

Email Address:



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division



To: Matt Wykel (SCDHEC Project Manager)
From: Joseph Goings (Contractor Project Manager)
Contractor: ARM Environmental Services, Inc. UST Contractor Certification Number: 4

Facility Name: Cloud's Chevron (#07777 / #12352) UST Permit #: College Corner (#07584)
Facility Address: Two Notch Road & Taylor Street, Columbia, SC
Responsible Party: Jack Lee & Alexander Lee / 3733 Greenbriar Drive, Columbia SC 2920 Phone: Acme Petroleum & Fuel Company
RP Address: Wallace Scott / 76 Whiteford Way, Lexington SC 29072 543 Cox Rd, Suite C, Gastonia, NC 28054
Property Owner (if different): Cloud's Chevron: Medical University Hospital Authority, 22 Westedge St, Charleston, SC 29403
Property Owner Address: College Corner: Fast Point Food Stores Inc., 2811 Reidville Rd, Suite 16, Spartanburg, SC 29301
Current Use of Property: Cloud's Chevron: Hospital parking lot // College Corner: Gas station & convenience store



Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, Other, GAC

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

12 Soil, Water Supply Wells, Air, Field Blank, Monitoring Wells, Surface Water, Duplicate, Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
of shallow points proposed: 32 TMWs on map Estimated Footage: Between 7 and 30 ft feet per point
of deep points proposed: 25 soil cores on map Estimated Footage: Most to 25 or 27 ft, 2 @ 10 ft feet per point
Field Screening Methodology: Direct push TMWs. Continuous core soil samples. Proposed scope is based on a map provided by Department.

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
of shallow wells: Estimated Footage: feet per point
of deep wells: Estimated Footage: feet per point
of recovery wells: Estimated Footage: feet per point
Comments, if warranted:

UST Permit #: Cloud's Chevron (#07777 / #12352) Facility Name: College Corner (#07584)

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 30 Field Work Completion: 100

Report Submittal: 120 # of Copies Provided to Property Owners: 15

Aquifer Characterization

Pump Test: Slug Test: (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: 2 Tons Purge Water: 200 Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

2 equipment mobilizations are requested - if property access is achieved and lithology is favorable, work should be completed in 2-3 weeks. If scope of work takes 3 weeks, an additional equipment mobilization will be requested.

3 personnel mobilizations are requested for management of continuous core samples (PID screening), groundwater samples, and IDW disposal.

An additional 200 feet of field screening are requested to expand scope if needed.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

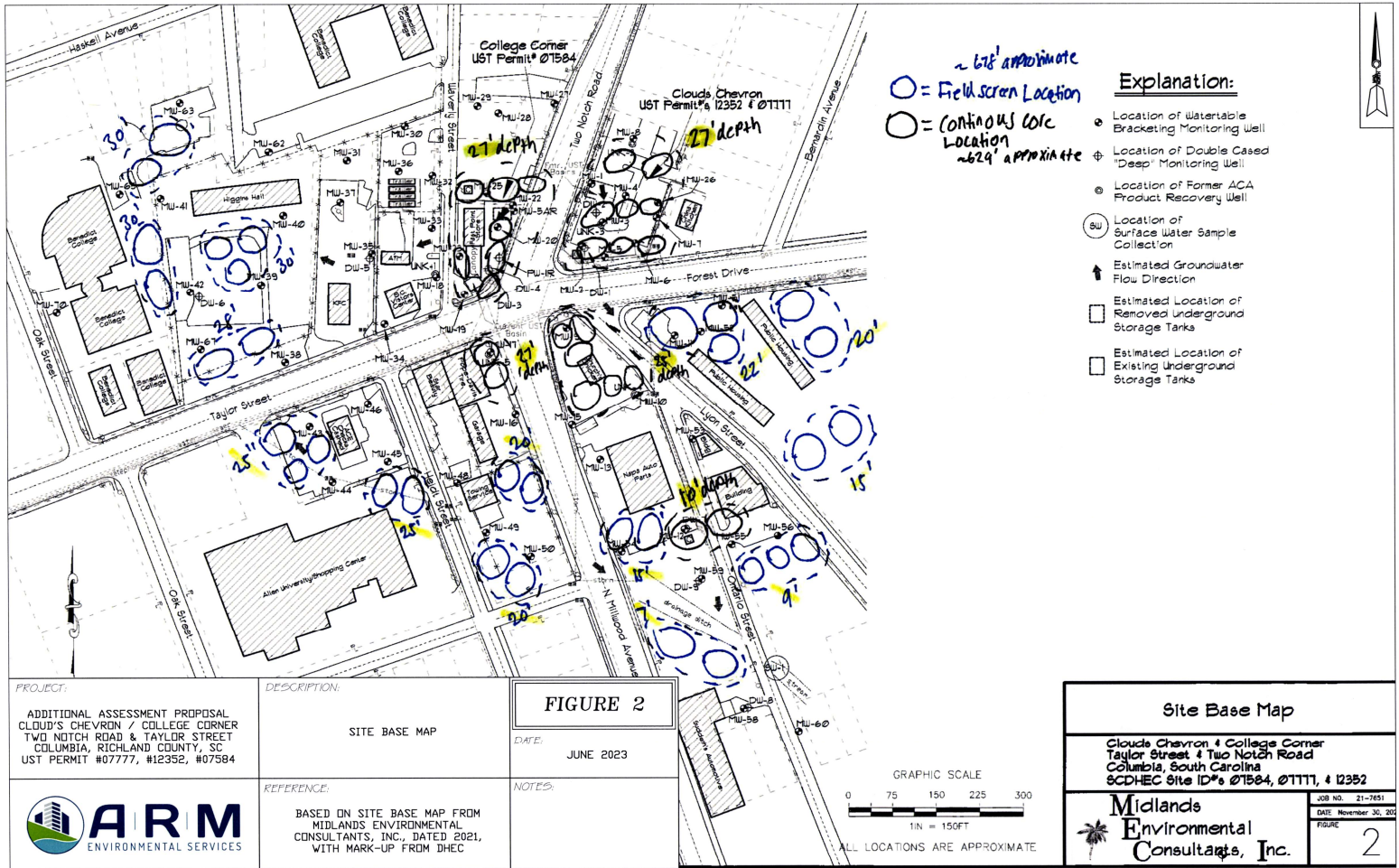
XXX Other variations from ACQAP. Please describe below.

ARM understands this scope of work is intended to provide data to the Department for future solicitation of Active Corrective Action. The requested scope of work may provide sufficient information. However, the source area delineation of LNAPL will be limited. The best methodology for obtaining the most useful and accurate data is the optical imaging hydraulic profiling tool (OIHPT), which utilizes UV light to cause LNAPL to fluoresce. This technology falls under the SUPERB HRSC 1 rate. While HRSC is not included in the State Lead rates, ARM can provide a separate cost proposal under SUPERB rates for an HRSC assessment, upon request.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664





**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
PO#

Facility Name: College Corner / Cloud's Chevron

UST Permit #: 07777, 12352, 07584 Cost Agreement #: Pending

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. Plan Preparation					
1.1 Site-specific Work Plan	1	each	\$300.00		\$300.00
2.1 Tax Map		each	\$100.00		\$0.00
B. Receptor Survey *					
		each	\$750.00		\$0.00
C. Survey (500 X 500 feet)					
1.1 Comprehensive Survey		each	\$1,400.00		\$0.00
5. Ground Penetrating Radar Survey (GPR)		each	\$3,600.00		\$0.00
D. Mobilization/Demobilization					
1.1 Equipment Mobilization	2	each	\$1,350.00		\$2,700.00
2.1 Personnel Mobilization	3	each	\$600.00		\$1,800.00
3.1 Adverse Terrain Vehicle		each	\$1,275.00		\$0.00
E.. Soil Borings (hand auger)*					
		per foot	\$7.00		\$0.00
F. Soil Borings/Field Screening (requiring equipment, push technology, etc) or Field Screening (including sampling and analysis)					
1.1 Standard Soil Boring/Field Screening	878	per foot	\$20.00		\$17,560.00
2.1 Fractured Rock Screening		per foot	\$28.00		\$0.00
I. Well Installation (per foot includes costs associated with soil screening, lithology, development, pad and ID plate)					
1.1 Shallow monitoring wells installed using a hand auger		per foot	\$26.00		\$0.00
2.A Single-cased 2" Diameter Monitoring Well (0-50 ft)		per foot	\$46.50		\$0.00
2.1. Single-cased 2" Diameter Monitoring Well (>50 ft)		per foot	\$49.00		\$0.00
3.1 Telescoping		per foot	\$62.00		\$0.00
4.1 Rock Drilling		per foot	\$75.00		\$0.00
5.1 2" Rock Coring and Retrieval		per foot	\$48.00		\$0.00
6.1 Multi-sampling ports/screens		per foot	\$50.00		\$0.00
7.1 Recovery Well (4" diameter well)		each	\$55.00		\$0.00
9.1 Rotosonic Drilling (2" diameter well)		each	\$65.00		\$0.00
J. Sample Collection / Gauging Depth to Product or Groundwater					
1.1 Volumetric Groundwater Purge		per well	\$72.00		\$0.00
2.1 Air or Soil Vapor Sample		per receptor	\$125.00		\$0.00
3.1 Water Supply Sample		per well/receptor	\$40.00		\$0.00
4.1. HydraSleeve			\$65.00		\$0.00
4.2A No purge Groundwater Sample / Surface Water Sample		sample	\$36.00		\$0.00
5.1 Gauging Well Only		per well	\$10.00		\$0.00
6.1 Sample Below Product		sample	\$38.00		\$0.00
7.1 Passive Diffusion Bag		sample	\$35.00		\$0.00
8.1 Field Duplicates (MWs & WSWs) and Field Blank		each	\$36.00		\$0.00
9.1 Groundwater(Low-Flow Purge)		per well/receptor	\$118.00		\$0.00
10.1 Equipment Blank		each	\$25.00		\$0.00
11. Sample Product		sample	\$50.00		\$0.00

Facility Name:		College Corner / Cloud's Chevron			
UST Permit #:		07777, 12352, 07584		Cost Agreement #: Pending	
K. Laboratory Analyses - Groundwater					
1.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (8260D)		sample	\$148.00		\$0.00
2.1 Dissolved Lead (6010D or 6020B)		sample	\$25.00		\$0.00
3.1 BTEXN, MTBE Including Oxygenates and 1,2 DCA (8260D) RUSH		sample	\$181.00		\$0.00
4.1 Trimethyl, Butyl, and Isopropyl Benzenes (8260D)		sample	\$34.00		\$0.00
5.1 Polynuclear Aromatic Hydrocarbons (PAHs) (8070E)		sample	\$82.00		\$0.00
6.1 Total Lead (6010D or 6020B)		sample	\$27.00		\$0.00
7.1 EDB by 8011		sample	\$60.00		\$0.00
8.1 EDB by 8011 RUSH		sample	\$82.00		\$0.00
9.1 RCRA 8 Metals		sample	\$80.00		\$0.00
10.1 TPH - Oil and Grease (9070)		per sample	\$54.00		\$0.00
11.1 pH (Lab)		per sample	\$9.00		\$0.00
12.1 BOD		per sample	\$28.00		\$0.00
13.1 Ethanol - (8015)		per sample	\$22.00		\$0.00
K. Laboratory Analyses - Drinking Water (Water Supply Wells)					
14.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (524.2)		sample	\$162.00		\$0.00
15.1 8-Oxygenates (8260D)		sample	\$110.00		\$0.00
16.1 EDB (504.1)		sample	\$98.00		\$0.00
17.1 RCRA 8 Metals		sample	\$125.00		\$0.00
K. Laboratory Analyses-Soil					
18.1 BTEXN (8260D)		sample	\$82.00		\$0.00
19.1 PAH's (8270E)		sample	\$82.00		\$0.00
20.1 RCRA 8 Metals		sample	\$80.00		\$0.00
21.1 TPH - DRO (3550C/8015C)		sample	\$50.00		\$0.00
22.1 TPH - GRO (5035B/8015C)		sample	\$50.00		\$0.00
23.1 Grain size/Hydrometer		12 sample	\$154.00		\$1,848.00
24.1 Total Organic Carbon		sample	\$45.00		\$0.00
K. Laboratory Analyses - Air					
25.1 BTEXN (TO-15)		sample	\$365.00		\$0.00
K. Hydrocarbon Fuel Identification					
27. C3 - C44 Whole Oil (ASTM D3328)		sample	\$490.00		\$0.00
28. Fuel Oxygenates (1624 Mod)		sample	\$463.00		\$0.00
29. ALKYL Leads, EDB MMT (8080)		sample	\$463.00		\$0.00
30. C8 - C40 Full Scan (ASTM 5739)		sample	\$695.00		\$0.00
31. Simulated Distillation (ASTM 2887)		sample	\$463.00		\$0.00
32. Parent & Alk. PAH Com. (8270 SIM)		sample	\$825.00		\$0.00
33. C3 - C10 Piano (8260 Mod)		sample	\$695.00		\$0.00
34. C10+ Alkane Fingerprint (ASTM 3328)		sample	\$695.00		\$0.00
35. Expert Data Interpretation & Report		sample	\$720.00		\$0.00
L. Aquifer Characterization*					
2.1 Slug Test		per test	\$310.00		\$0.00
3.1 Fractured Rock		per test	\$190.00		\$0.00
M. Free Product Recovery Rate Test*					
		each	\$100.00		\$0.00
P. Subsequent Survey*					
		each	\$300.00		\$0.00

Facility Name: College Corner / Cloud's Chevron					
UST Permit #: 07777, 12352, 07584		Cost Agreement #: Pending			
Q. Disposal					
1. Wastewater (per gallon)	200	gallon	\$0.66		\$132.00
2. Free Product (per gallon)		gallon	\$0.68		\$0.00
3. Soil Treatment/Disposal (per ton)	2	ton	\$82.00		\$164.00
4. Drilling fluids (per gallon)		gallon	\$0.70		\$0.00
Y. Well Repair					
1.1 Additional Copies of Report	15	each	\$70.00		\$1,050.00
5.1 Replace well cover bolts		each	\$5.00		\$0.00
6.1 Replace locking well cap & lock		each	\$23.00		\$0.00
10.1 Replace missing/illegible well ID plate		each	\$25.00		\$0.00
S. Report Preparation/Project Coordination					
	15%	percent	\$25,554.00		\$3,833.10
TOTAL					\$29,387.10

Tier II Contract 03-2023



NOV 06 2023



MICHAEL FARIS
ARM ENVIRONMENTAL SERVICES INC
1210 1ST STREET S EXTENSION
COLUMBIA SC 29209

Re: **Notice to Proceed for Tier II Assessment**

Clouds Chevron, 1600 Two Notch Road, Columbia, SC
UST Permit #12352 and #07777; Cost Agreement #67885 and #67884
College Corner, 2367 Taylor Street, Columbia, SC
UST Permit #07584; Cost Agreement release #1- #67882, Cost Agreement release #2- #67883
Monitoring Well Approval UMW-29613
Solicitation #IFB-5400024540; Purchase Order #4600938573
Site-Specific Work Plan and cost proposal received July 3, 2023
Richland County

Dear Mr. Faris:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the Site-Specific Work Plan and cost proposal for the referenced site. Assessment activities should begin immediately upon receipt of this letter.

Cost agreement numbers referenced above have been approved in the amount shown on the enclosed cost agreements and will be kept on file so that compensation can begin. **DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with the referenced Invitation for Bid (IFB).** Further, the DHEC reserves the right to question and/or reject costs if deemed unreasonable. The DHEC reserves the right to audit project records at any time during the project or after completion of the work. **The Tier II Assessment Report (1 hard copy, 1 electronic copy, 1 copy to each property owner who has a well on their property), QAPP checklist (Appendix K), and invoice should be submitted within 90 days from the date of this correspondence.**

ARM Environmental Services, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference the approved cost agreement number on all pertinent invoices and correspondence.

Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from DHEC is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved in writing by DHEC in order for ARM Environmental Services, Inc., to seek future cost compensation. Any temporary well converted to a permanent well will be reimbursed at the permanent well installation rate.

In accordance with section B of the current version of Quality Assurance Program Plan for the UST Management Division (QAPP), if the time interval between collection of groundwater samples from the permanent monitoring well network and receipt of the report and exceeds 60 days, the contractor will submit an updated comprehensive groundwater sampling report to include blank and duplicate samples for all wells and surface water at no additional cost. DHEC reserves the right to deny payment for laboratory analyses if the detection limit exceeds the reporting limit in Appendix F of the QAPP for the UST Division. As agreed to in the referenced contract, the owner/operator and property owner of the referenced facility will not be responsible for any costs associated with this assessment.

Monitoring well approval for up to 32 Temporary monitoring wells and 25 soil cores is enclosed for your records. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The Division suggests a roll off container be used for disposal. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than thirty (30) days. A legible copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the chemical of concern (CoC) concentrations, based on laboratory analysis, are below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater in a location acceptable to the property owner. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST permit numbers and Cost Agreement Numbers referenced above. If you have questions concerning this correspondence, or would like to submit additional information, please contact me at (803) 898-7705, fax me at (803) 898-0673, or e-mail me at wykelijm@dhec.sc.gov.

Sincerely,



Matt Wykel, Hydrogeologist
Corrective Action and Field Support Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management

enc: Approved Cost Agreements
Monitoring Well Approval

cc: Caitlin Reilly, UST Management Division (w/ enc.)

Technical File (w/ enc.)



Monitoring Well Approval

Approval is granted to: ARM, Inc.

On behalf of: Scott M Wallace, Jack and Alexander Lee, and ACME Petroleum Company

Facility #1: College Corner, 2367 Taylor Street, Columbia, SC

Facility #2: Clouds Chevron, 1600 Two Notch Road, Columbia, SC

UST Permit: #07584, #12352, and #07777

County: Richland

This approval is for the installation of 32 temporary monitoring wells and 25 soil cores. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the UST Division shall be completed and submitted to the UST Division within 30 days after well completion or abandonment unless another schedule has been approved by the UST Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f.
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the UST Division within 30 days of receipt of laboratory results unless another schedule has been approved by the UST Division as required by R.61-71.H.1.d.
5. If any of the information provided to the UST Division changes, notification to Matt Wykel, the project manager (phone: (803) 898-7705 or email: wykeljm@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. UST Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

Date of Issuance: November 1, 2023

Approval #: UMW-29613

A handwritten signature in black ink, appearing to read "Matt Wykel".

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement**67883**

Facility: 07584 COLLEGE CORNER

WYKELJM

PO Number: 938573-5

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1.1 SITE SPECIFIC WORK PLAN	0.2500	\$300.000	75.00
D MOB/DEMOB		1.1 EQUIPMENT	0.5000	\$1,350.000	675.00
		2.1 PERSONNEL	0.7500	\$600.000	450.00
F SOIL BORINGS (DRILLED)		1.1 SOIL BORING/FLD SCR. STANDARD	219.5000	\$20.000	4,390.00
K ANALYSES	SOIL SOIL	23.1 GRAIN SIZE HYDROMETER	3.0000	\$154.000	462.00
Q DISPOSAL		1 WASTEWATER	50.0000	\$0.660	33.00
		3 SOIL TREATMENT DISPOSAL	0.5000	\$82.000	41.00
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0.1500	\$6,388.500	958.28
Y WELL REPAIR		1.1 ADDITIONAL COPIES OF REPORT	3.7500	\$70.000	262.50
				Total Amount	7,346.78

Approved Cost Agreement**67882**

Facility: 07584 COLLEGE CORNER

WYKELJM

PO Number: 938573-6

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1.1 SITE SPECIFIC WORK PLAN	0.2500	\$300.000	75.00
D MOB/DEMOB		1.1 EQUIPMENT	0.5000	\$1,350.000	675.00
		2.1 PERSONNEL	0.7500	\$600.000	450.00
F SOIL BORINGS (DRILLED)		1.1 SOIL BORING/FLD SCR. STANDARD	219.5000	\$20.000	4,390.00
K ANALYSES	SOIL SOIL	23.1 GRAIN SIZE HYDROMETER	3.0000	\$154.000	462.00
Q DISPOSAL		1 WASTEWATER	50.0000	\$0.660	33.00
		3 SOIL TREATMENT DISPOSAL	0.5000	\$82.000	41.00
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0.1500	\$6,388.500	958.28
Y WELL REPAIR		1.1 ADDITIONAL COPIES OF REPORT	3.7500	\$70.000	262.50
				Total Amount	7,346.78

Approved Cost Agreement**67885**

Facility: 12352 CLOUDS CHEVRON

WYKELJM

PO Number: 938573-7

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1.1 SITE SPECIFIC WORK PLAN	0.2500	\$300.000	75.00
D MOB/DEMOB		1.1 EQUIPMENT	0.5000	\$1,350.000	675.00
		2.1 PERSONNEL	0.7500	\$600.000	450.00
F SOIL BORINGS (DRILLED)		1.1 SOIL BORING/FLD SCR. STANDARD	219.5000	\$20.000	4,390.00
K ANALYSES	SOIL SOIL	23.1 GRAIN SIZE HYDROMETER	3.0000	\$154.000	462.00
Q DISPOSAL		1 WASTEWATER	50.0000	\$0.660	33.00
		3 SOIL TREATMENT DISPOSAL	0.5000	\$82.000	41.00
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0.1500	\$6,388.500	958.28
Y WELL REPAIR		1.1 ADDITIONAL COPIES OF REPORT	3.7500	\$70.000	262.50
				Total Amount	7,346.78

Approved Cost Agreement**67884**

Facility: 07777 CLOUDS CHEVRON

WYKELJM

PO Number: 938573-8

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1.1 SITE SPECIFIC WORK PLAN	0.2500	\$300.000	75.00
D MOB/DEMOB		1.1 EQUIPMENT	0.5000	\$1,350.000	675.00
		2.1 PERSONNEL	0.7500	\$600.000	450.00
F SOIL BORINGS (DRILLED)		1.1 SOIL BORING/FLD SCR. STANDARD	219.5000	\$20.000	4,390.00
K ANALYSES	SOIL SOIL	23.1 GRAIN SIZE HYDROMETER	3.0000	\$154.000	462.00
Q DISPOSAL		1 WASTEWATER	50.0000	\$0.660	33.00
		3 SOIL TREATMENT DISPOSAL	0.5000	\$82.000	41.00
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0.1500	\$6,388.500	958.28
Y WELL REPAIR		1.1 ADDITIONAL COPIES OF REPORT	3.7500	\$70.000	262.50
Total Amount					7,346.78



RECEIVED
FEB 22 2024
UST DIVISION

February 15, 2024

Matt Wykel, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

12352
07770
UST
55102
0224
MARKETING

Re: Limited Tier II Screening Assessment
Clouds Chevron, 1600 Two Notch Road
UST Permit #12352 & #07777; CA #67885 & #67884
College Corner, 2367 Taylor Street
Columbia, Richland County, South Carolina
UST Permit #07584; CA #67882 (Rel. #1) & #67883 (Rel. #2)
PO #4600938573
ARM Project #32-3010.1-23

2877-

Dear Mr. Wykel;

ARM Environmental Services, Inc. (ARM) has completed the limited field screening event requested for the Clouds Chevron and College Corner sites located in Columbia, South Carolina. The pertinent information regarding this assessment is presented on the following pages and in the attached Figures, Tables, and Appendices.

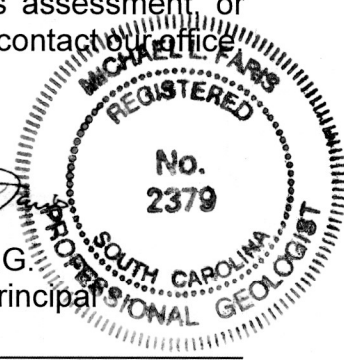
During this assessment, multiple screening points consisting of soil borings and temporary monitoring wells (TMWs) were completed to various depths across the southeastern portion of the project area in order to assess the current distribution and concentration of petroleum Chemicals of Concern (CoC). Based on the data collected, it appears that the contaminant plume remains horizontally and vertically undefined. Multiple CoC remain at concentrations greater than their respective Risk-Based Screening Levels (RBSLs) in the screening points. It is apparent that a sandy or sandy silt layer is acting as a preferential pathway for contaminant migration.

If you should have any questions regarding the results of this assessment, or should you need additional information, please do not hesitate to contact our office.

Sincerely,
ARM Environmental Services, Inc.

Paul Myers
Paul Myers
Staff Geologist

Michael Faris
Michael Faris, P.G.
Sr. Geologist / Principal



It should be noted that the College Corner site is currently operating as a gas station under a different UST Permit (#18389). UST Permit #18389 has had two additional tanks on the property that were abandoned by removal from the ground on 9/10/2003. One of the tanks was 8,000-gallons and the other was 12,000-gallons. Both tanks were used for the storage of gasoline. Two additional USTs, which are currently in use on the property, were put into operation on October 10, 2003. The in-use tanks consist of one 8,000-gallon gasoline UST and one 12,000-gallon gasoline UST. No releases have been reported from the active UST system on the College Corner site associated with UST Permit #18389.

Numerous iterations of soil and groundwater assessment and/or active remediation have been conducted on the releases from each of the sites. Therefore, a somewhat extensive monitoring well network exists in the area that was previously installed in an attempt to define the horizontal and vertical extents of the contaminant plumes associated with the releases. The most recent assessment conducted at the site, a groundwater sampling event, was performed by Midlands Environmental Consultants, Inc. in November 2021. The results were summarized in a monitoring report dated December 2, 2021.

According to the USGS Topographic Quadrangle Map of *Columbia North, South Carolina*, dated 2020, the elevation of the site is approximately 290 feet above mean sea level (MSL). Based on the data collected during this and previous assessments, groundwater apparently flows in a semi-radial pattern toward the northwest and toward the south/southeast. Groundwater flow in the limited area of study during this assessment is believed to flow primarily toward the south/southeast. A Topographic Site Location Map is included as Figure 1.

Summary of Findings

Soil & Groundwater Screening

All soil boring (SB) and temporary monitoring well (TMW) locations were selected onsite by ARM and DHEC staff prior to the work, and based on the site conditions at the time of the assessment. The site work was completed on December 4 through 7, 2023.

Multiple additional soil and groundwater screening points were requested by the Department, primarily to the west of the work completed during this assessment. However, due to a lack of access to multiple private properties, no additional borings were completed during this round of work.

A total of eleven (11) locations were selected for soil screening. The borings were completed using a drilling rig equipped with direct push tooling. Continuous soil cores, designated SB-1 through SB-11, were completed to total depths between 18 and 30 feet below ground surface (bgs). All downhole tooling was decontaminated between borings to prevent potential cross contamination. Soils were collected and placed in sealable plastic bags at intervals between two and five feet depending on the depth and the boring. The soil samples were allowed to come to equilibrium with ambient temperatures and then screened with a calibrated photoionization detector (PID) via headspace analysis.

A select set of soil samples were submitted to Pace Analytical Services, LLC (PACE), a South Carolina certified laboratory (certification #32010), for grainsize/hydrometer analysis. Samples were collected from SB-3 at 17 feet and 27 feet, SB-9 at 25 feet, and SB-11 at 27 feet and 30 feet.

A total of thirteen (13) TMWs were completed across the area of study utilizing direct push methodologies. The total depths of the TMWs ranged from 9 to 33 feet bgs depending on the boring location. The TMWs were generally completed to first water. All downhole tooling was decontaminated between wells using industry standard procedures. Samples from each of the TMWs were collected into pre-labeled, laboratory-prepared sample containers and submitted to Pace Analytical Services, LLC (PACE), a South Carolina certified laboratory (certification #32010), for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, methyl tertiary butyl ether (MTBE), and 1,2-DCA by Environmental Protection Agency (EPA) approved analytical method 8260D. Each TMW water sample was also analyzed for the 8 oxygenates by approved analytical method 8260D.

Elevated concentrations of multiple CoC were identified in water samples from TMW-1, TMW-2, TMW-7, TMW-10, and TMW-11. No CoC, or only de minimus concentrations of CoC, were observed in TMW-3, TMW-4, TMW-5, TMW-8, TMW-9, TMW-12, or TMW-13.

The locations of each of the SBs and TMWs are indicated on the Site Base Map with Screening Data, included as Figure 2. The soil boring logs and tabulated summaries of the TMW analytical data are included in Appendix D. DHEC 1903 Well Records are included in Appendix E. The complete laboratory analytical reports, including chain-of-custody documentation, are included in Appendix B. iii. Groundwater CoC Site Maps indicating the December 2023 CoC concentrations in the groundwater at each TMW are included as Figure 3A and Figure 3B (Oxygenates).

Property Access Documentation

Abbreviated copies of the report have been submitted to the owner or representative of each of the off-site properties containing sampled monitoring wells. Copies of the permission letters granting off-site access are included in Appendix J.

Contractor Checklist

The SCDHEC QAPP Contractor Checklist is included in Appendix K.

Conclusions and Recommendations

Based on the analytical results from this event, it appears that the contaminant plume remains undefined to the west and southwest of the apparent source areas. The shallow groundwater contaminant plume appears to have been delineated along the eastern boundary of the study area during this assessment.

Based on the available lithology data and field screening information from this assessment, it appears that a layer of sand and/or sandy silt is likely acting as a more permeable layer for contaminant migration toward the southeast. The sand and sandy silt layer, where present, is relatively thin and is located near and above the water table interface. The more permeable layer is located above tighter and more clayey materials. Although the contaminant plume(s) have clearly traveled in multiple directions from the various source areas, it is apparent that a preferential pathway exists roughly from the intersection of Forest Drive and Ontario Street and travels southeast along the eastern side of Ontario Street between Ontario Street and the former Lyon Street. Lyon Street has been demolished as part of the Housing Authority development on the southeastern corner of Forest Drive and Ontario Street. Groundwater samples from TMW-2 and TMW-7 confirm the presence of a relatively narrow pathway of contaminant migration toward the newly installed retention pond area on the Housing Authority development. Just beyond the recently installed retention pond is an unnamed wet weather drainage feature that has previously been found to be impacted with elevated CoC.

Clouds Chevron; UST Permit #12352 & #07777; CA #67885 & #67884
College Corner; UST Permit #07584; CA #67882 (Rel. #1) & #67883 (Rel. #2)
PO #4600938573
Limited Tier II Screening Assessment

References

Maybin and Nystrom, 1997, revised by Willoughby, Howard and Nystrom, 2005.
Generalized Geologic Map of South Carolina; South Carolina Department of
Natural Resources Geological Survey.

USGS Open-File Report 2005-1323, Preliminary integrated geologic map
databases for the United States: Alabama, Florida, Georgia, Mississippi,
North Carolina, and South Carolina, <http://pubs.usgs.gov/of/2005/1323/>

Midlands Environmental Consultants, December 2, 2021. Monitoring Report –
Clouds Chevron & College Corner.

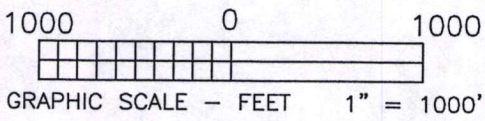
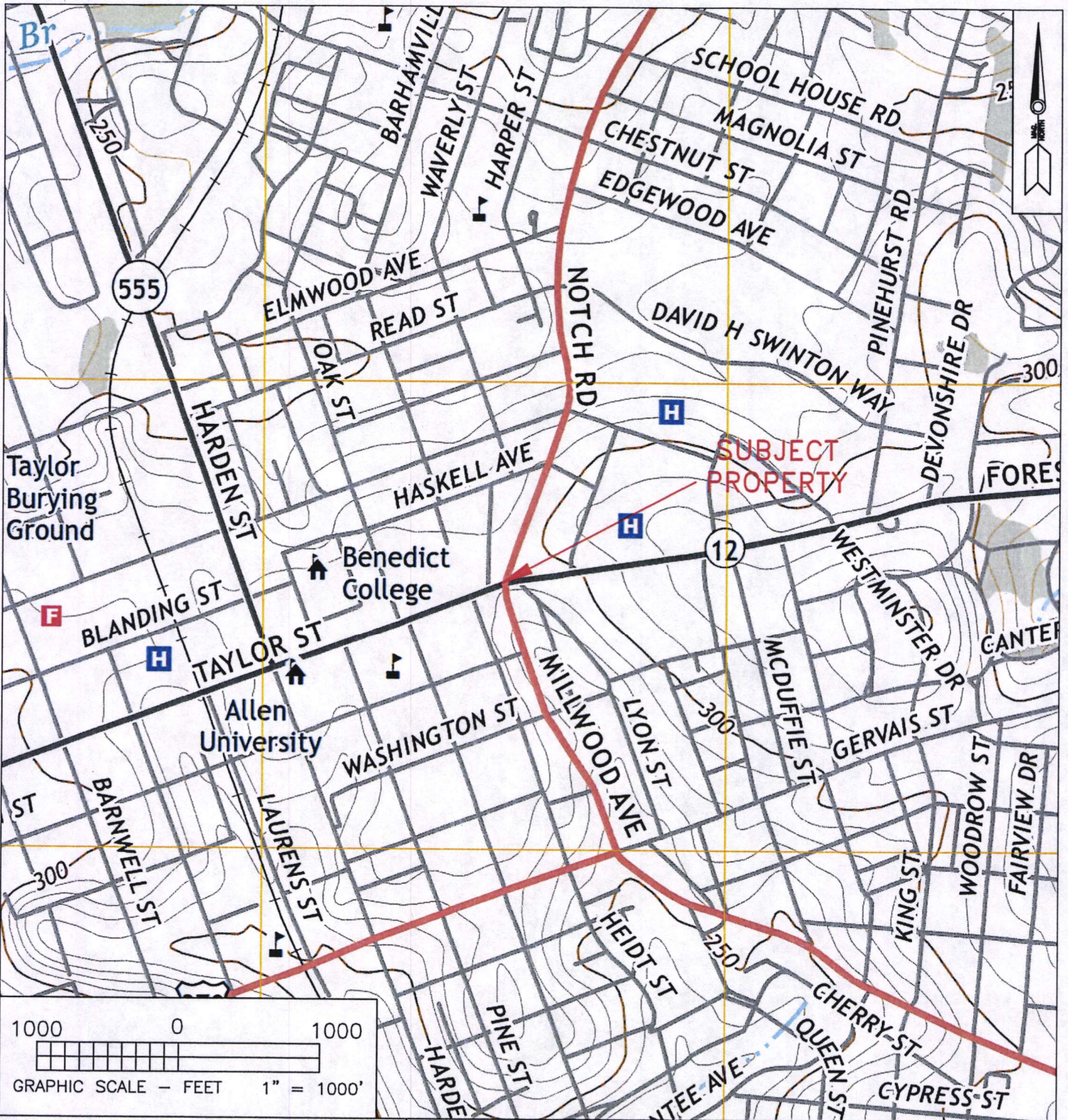
FIGURES

Figure 1 – Site Location Map (Topographic)

Figure 2 – Site Base Map

Figure 3A – Groundwater Screening CoC Map

Figure 3B – Groundwater Screening CoC Map (Oxy)



PROJECT:
 ADDITIONAL ASSESSMENT
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

DESCRIPTION:
 SITE LOCATION MAP

FIGURE 1
 DATE:
 DECEMBER 2023



REFERENCE:
 U.S.G.S. TOPOGRAPHIC MAP
 (7.5 MINUTE SERIES)
 COLUMBIA NORTH - 2020
 SOUTH CAROLINA QUADRANGLE

LEGEND:

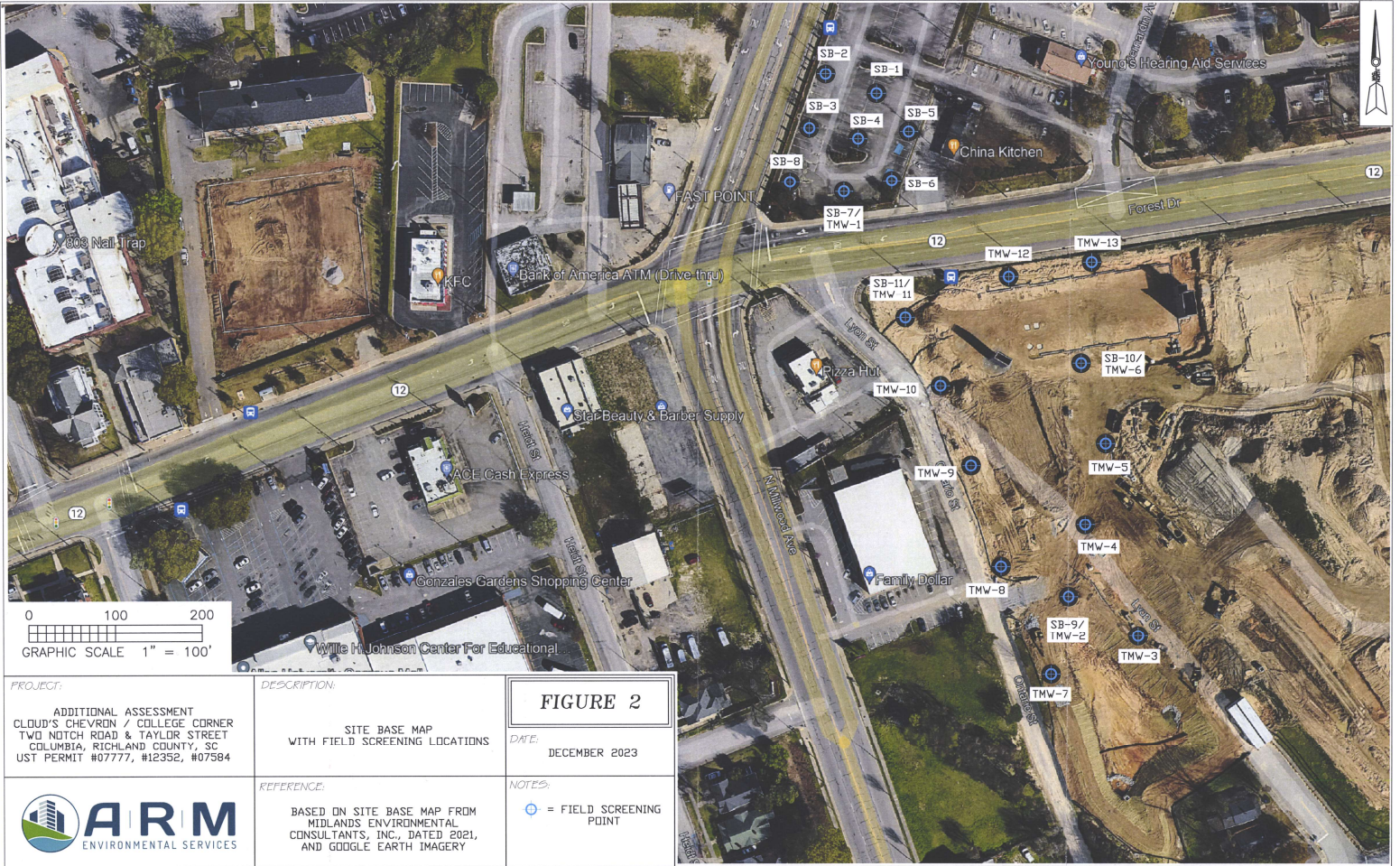


FIGURE 2

DATE: DECEMBER 2023

NOTES:
 ⊕ = FIELD SCREENING POINT

PROJECT:
 ADDITIONAL ASSESSMENT
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

DESCRIPTION:
 SITE BASE MAP
 WITH FIELD SCREENING LOCATIONS

REFERENCE:
 BASED ON SITE BASE MAP FROM
 MIDLANDS ENVIRONMENTAL
 CONSULTANTS, INC., DATED 2021,
 AND GOOGLE EARTH IMAGERY



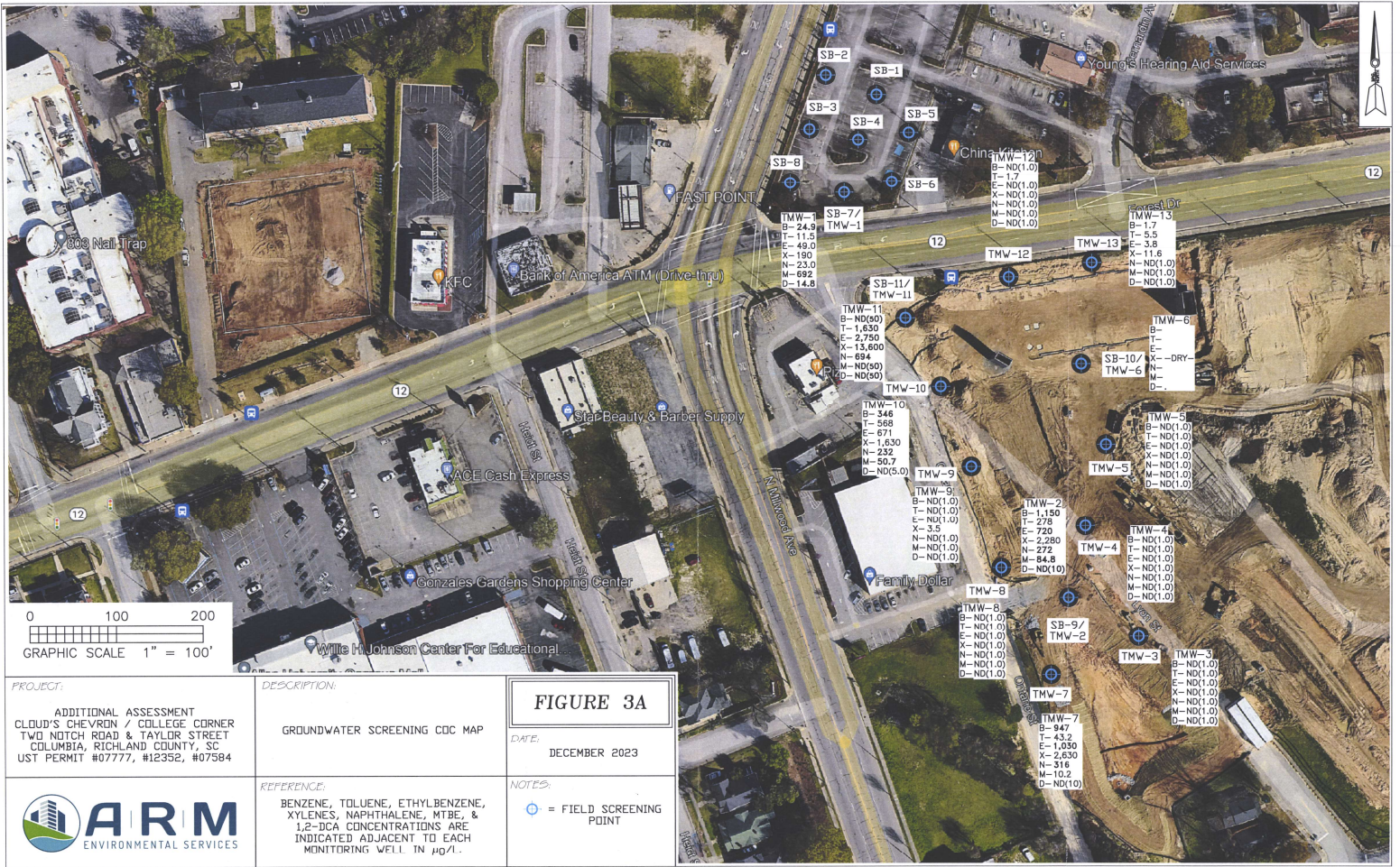


FIGURE 3A

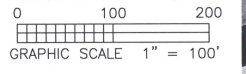
DATE: DECEMBER 2023

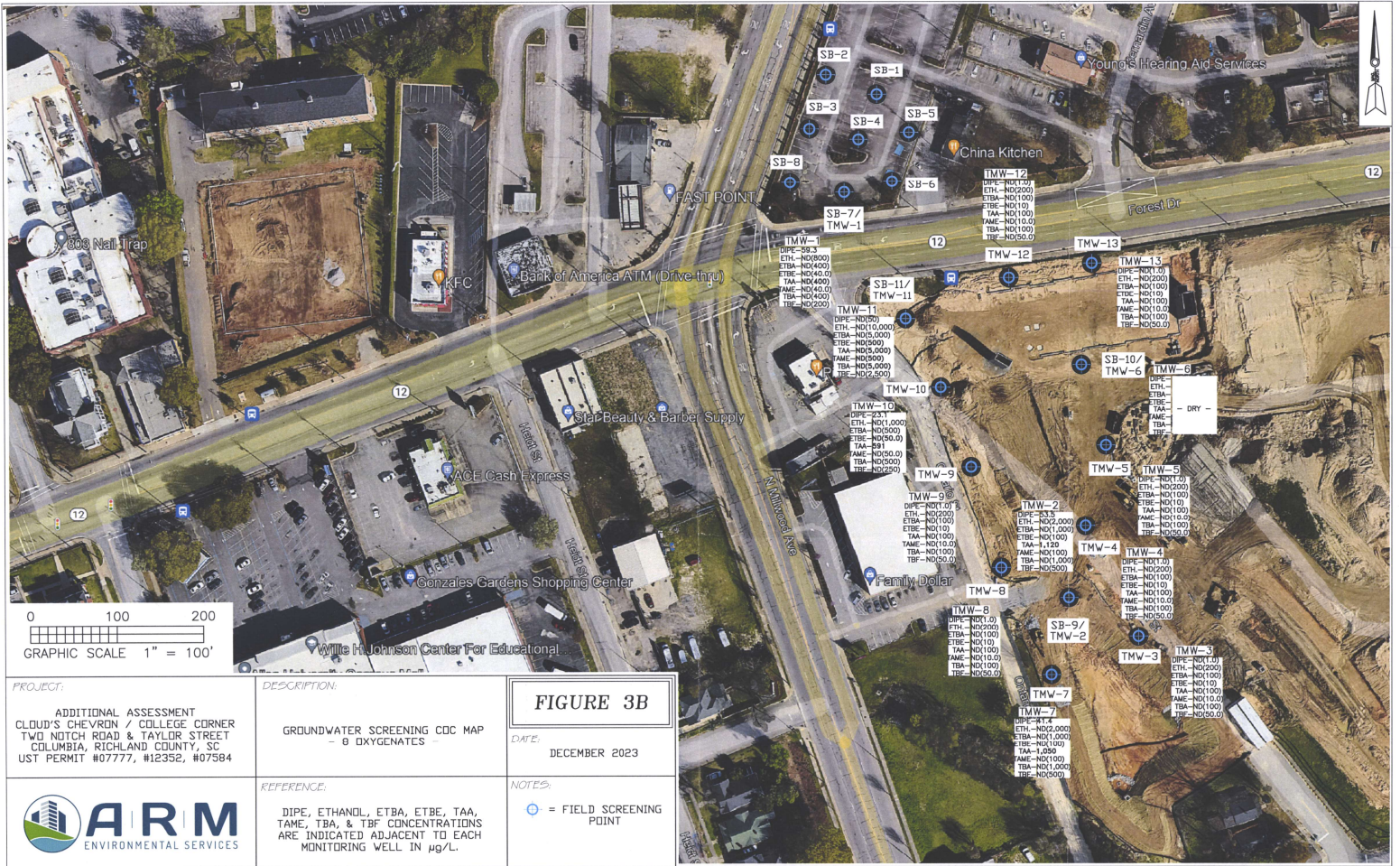
NOTES:
 ⊕ = FIELD SCREENING POINT

PROJECT:
 ADDITIONAL ASSESSMENT
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

DESCRIPTION:
 GROUNDWATER SCREENING CDC MAP

REFERENCE:
 BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES, NAPHTHALENE, MTBE, &
 1,2-DCA CONCENTRATIONS ARE
 INDICATED ADJACENT TO EACH
 MONITORING WELL IN µg/L.





TABLES

Table 1 – Tabulated Analytical Data (Screening)

A. Not Included (Soil Analytical Data)

B. Groundwater Analytical Data

Table 2 – Not Included (Potentiometric Data)

Table 3 – Not Included (Site Conceptual Model)

APPENDICES

A. Not Included (Site Survey)

B. Sampling Documentation

iii. Laboratory Analytical Data

C. Not Included (Tax Map Information)

D. Soil Boring / Field Screening Logs

E. 1903 Well Completion Logs

F. Not Included (Aquifer Evaluation)

G. Not Included (Disposal Manifest)

H. Not Included (Local Zoning Regulations)

I. Not Included (Fate & Transport Modeling)

J. Property Access Documentation

K. SCDHEC Contractor Checklist

College Corner, UST Permit #07584 and Clouds Chevron, UST Permit #s12352 & 07777

Table 1.B – Tabulated Field Screening Data (Groundwater)

December 5-7, 2023

Temporary Monitor Well ID	Date Sampled	Depth (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	MTBE	1,2-DCA
RBSLs	---	---	5.0	1,000	700	10,000	25	40	5 (MCL)
TMW-1	12/05/23	33.0	24.9	11.5	49.0	190	23.0	692	14.8
TMW-2	12/05/23	30.0	1,150	278	720	2,280	272	84.8	ND (10.0)
TMW-3	12/05/23	23.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-4	12/05/23	23.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-5	12/06/23	25.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-6	12/06/23	30.0	Dry (no groundwater sample collected)						
TMW-7	12/06/23	9.0	947	43.2	1,030	2,630	316	10.2	ND (10.0)
TMW-8	12/06/23	14.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-9	12/06/23	23.0	ND (1.0)	ND (1.0)	ND (1.0)	3.5	ND (1.0)	ND (1.0)	ND (1.0)
TMW-10	12/07/23	32.0	346	568	671	1,630	232	50.7	ND (5.0)
TMW-11	12/07/23	27.0	ND (50.0)	1,630	2,750	13,600	694	ND (50.0)	ND (50.0)
TMW-12	12/07/23	33.0	ND (1.0)	1.7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
TMW-13	12/07/23	29.0	1.7	5.5	3.8	11.6	ND (1.0)	ND (1.0)	ND (1.0)

Note: All units expressed in µg/L (PPB)
 ND - Not Detected Above Limit of Quantitation (LOQ)

N/A - Not Applicable
 J - Aproximated result below the laboratory reporting limit

College Corner, UST Permit #07584 and Clouds Chevron, UST Permit #s12352 & 07777

Table 1.B – Tabulated Field Screening Data (Groundwater)

- 8 Oxygenates -

December 5-7, 2023

Temporary Monitor Well ID	Date Sampled	Depth (feet)	DIPE	Ethanol	ETBA	ETBE	TAA	TAME	TBA	TBF
RBSLs	---	---	150	10,000	N/A	47	240	128	1,400	N/A
TMW-1	12/05/23	33.0	59.3	ND (800)	ND (400)	ND (40.0)	ND (400)	ND (40.0)	ND (400)	ND (200)
TMW-2	12/05/23	30.0	53.5	ND (2,000)	ND (1,000)	ND (100)	1,120	ND (100)	ND (1,000)	ND (500)
TMW-3	12/05/23	23.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-4	12/05/23	23.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-5	12/06/23	25.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-6	12/06/23	30.0	Dry (no groundwater sample collected)							
TMW-7	12/06/23	9.0	41.4	ND (2,000)	ND (1,000)	ND (100)	1,050	ND (100)	ND (1,000)	ND (500)
TMW-8	12/06/23	14.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-9	12/06/23	23.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-10	12/07/23	32.0	23.1	ND (1,000)	ND (500)	ND (50.0)	591	ND (50.0)	ND (500)	ND (250)
TMW-11	12/07/23	27.0	ND (50.0)	ND (10,000)	ND (5,000)	ND (500)	ND (5,000)	ND (500)	ND (5,000)	ND (2,500)
TMW-12	12/07/23	33.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)
TMW-13	12/07/23	29.0	ND (1.0)	ND (200)	ND (100)	ND (10.0)	ND (100)	ND (10.0)	ND (100)	ND (50.0)

Note: All units expressed in µg/L (PPB)

ND - Not Detected Above Limit of Quantitation (LOQ)

N/A - Not Applicable

J - Aproximated result below the laboratory reporting limit

APPENDIX A
NOT INCLUDED

APPENDIX B. iii.
LABORATORY ANALYTICAL DATA



Schnabel
ENGINEERING

104 Corporate Boulevard, Suite 420
West Columbia, SC 29169
T/ 803-796-6240
F/ 803-796-6250

TRANSMITTAL


TO:	Joseph Goings	DATE:	12/15/23
COMPANY:	ARM Environmental	SUBJECT:	Lab Results for College Corner
ADDRESS:	1210 1 st Street South Ext. Columbia, South Carolina 29209	PROJECT NAME/NO.:	ARM Environmental Lab Testing Schnabel Reference Number: 17C19041.000
FROM:	Stephen Hahn	CC:	

COPIES	DATE	NO.	DESCRIPTION
1	--	5	Gradation Curves for College Corner

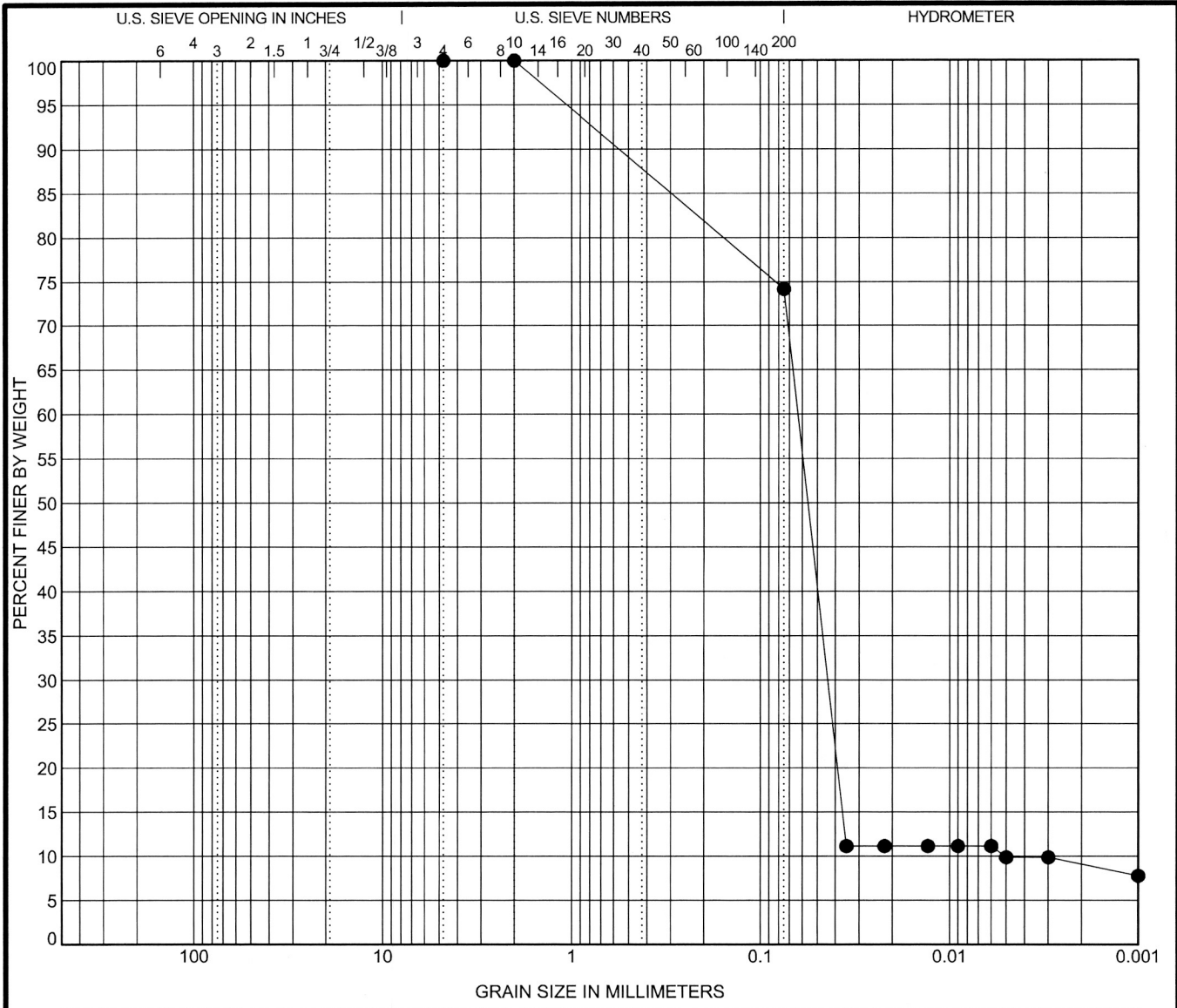
AS REQUESTED FOR APPROVAL PLEASE REPLY FOR YOUR USE

Attached, please find our lab results for the project College Corner

Please advise if you have any questions.

SIGNED: 
Stephen Hahn

SENT VIA: First Class Mail Overnight Service Email Other



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SB-3 17.0 ft	SILT WITH SAND (ML), reddish brown	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	2	0.063	0.044	0.005	0.0	25.8	65.1	9.1

Percent Finer

Sieve Size	200	10	4
% Finer	74.2	100.0	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

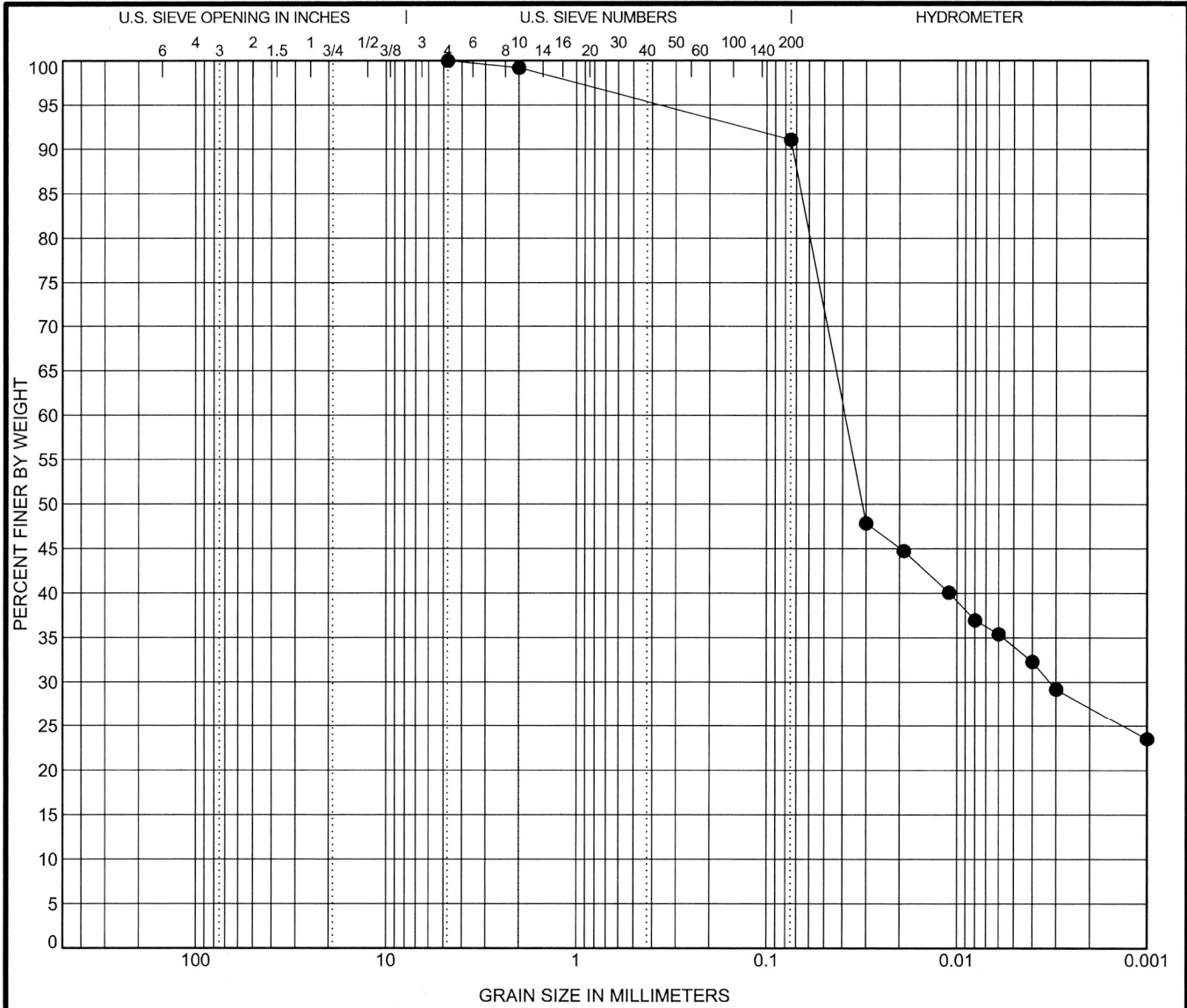


GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENVY LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method	
● SB-3	27.0 ft	SILT (ML), brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
ASTM D422	4.75	0.039	0.003		0.0	8.9	64.0	27.1		

Percent Finer

Sieve Size	200	10	4
% Finer	91.1	99.2	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

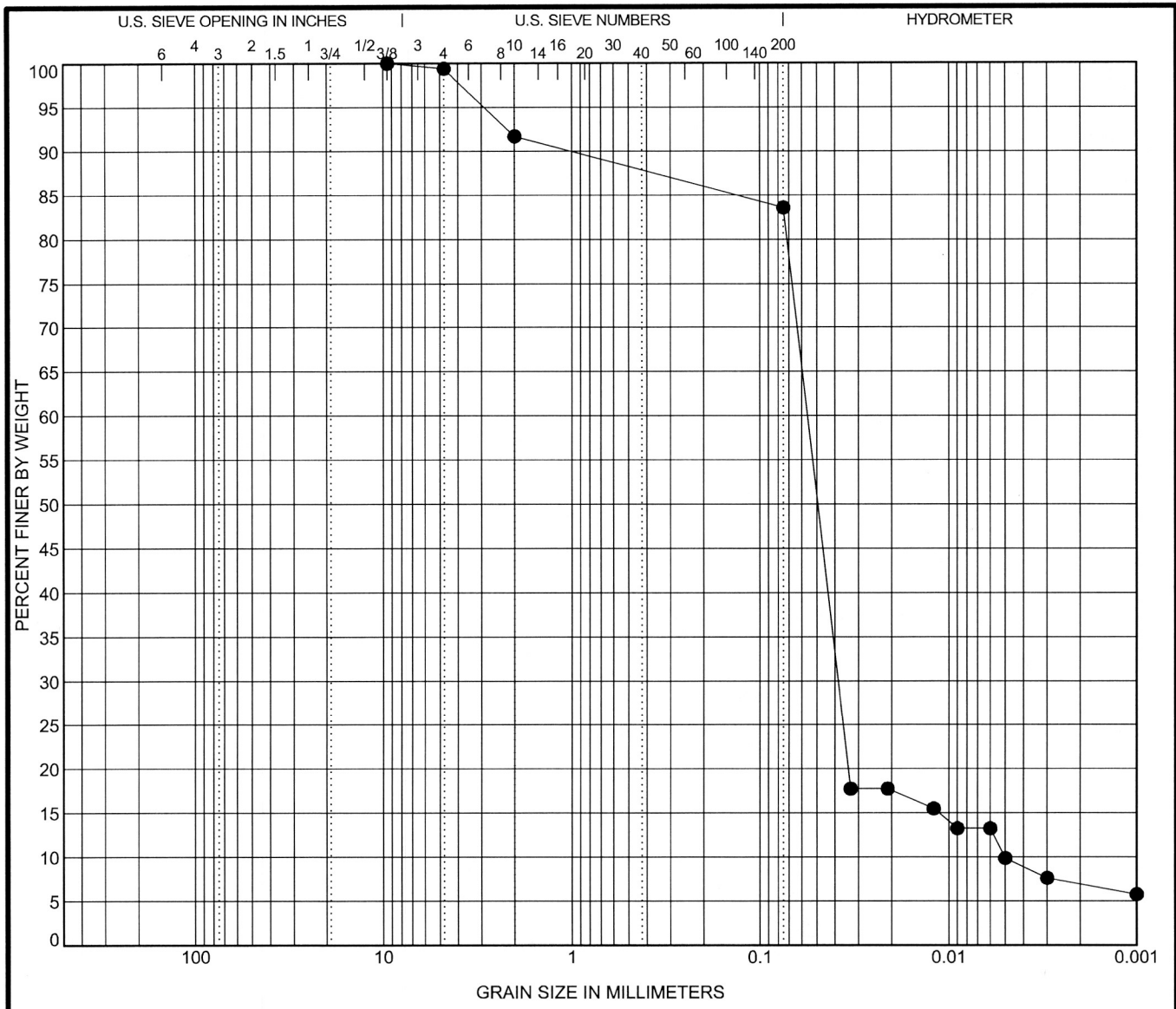


GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SB-9 25.0 ft	SILT WITH SAND (ML), light brown	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	9.5	0.056	0.038	0.005	0.6	15.8	76.7	6.9

Sieve Size	200	10	4	3/8"
% Finer	83.6	91.7	99.4	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN

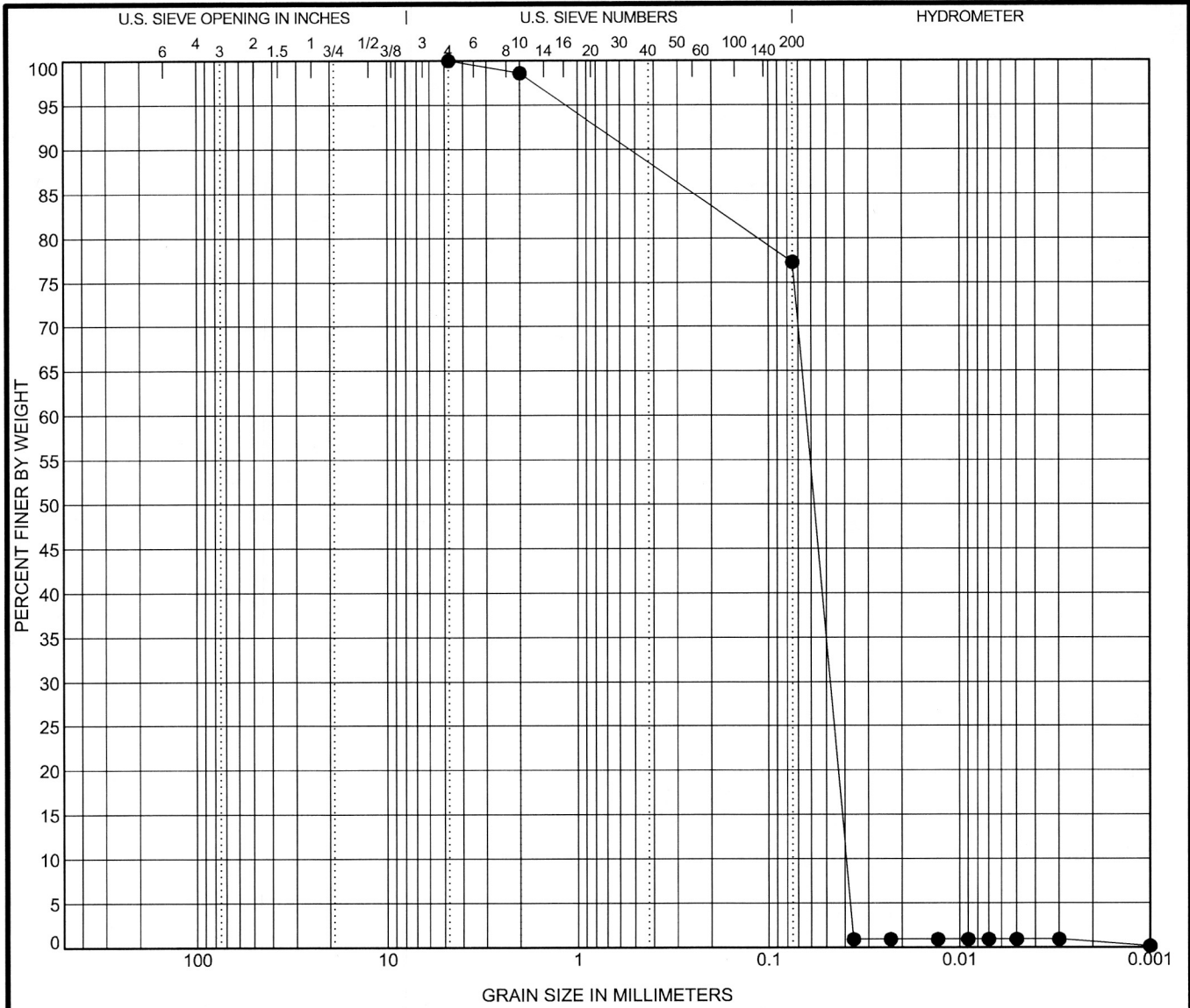


GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC

Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SB-11 27.0 ft	SILT WITH SAND (ML), light brown	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	4.75	0.064	0.048	0.039	0.0	22.7	76.7	0.6

Percent Finer

Sieve Size	200	10	4
% Finer	77.3	98.6	100.0

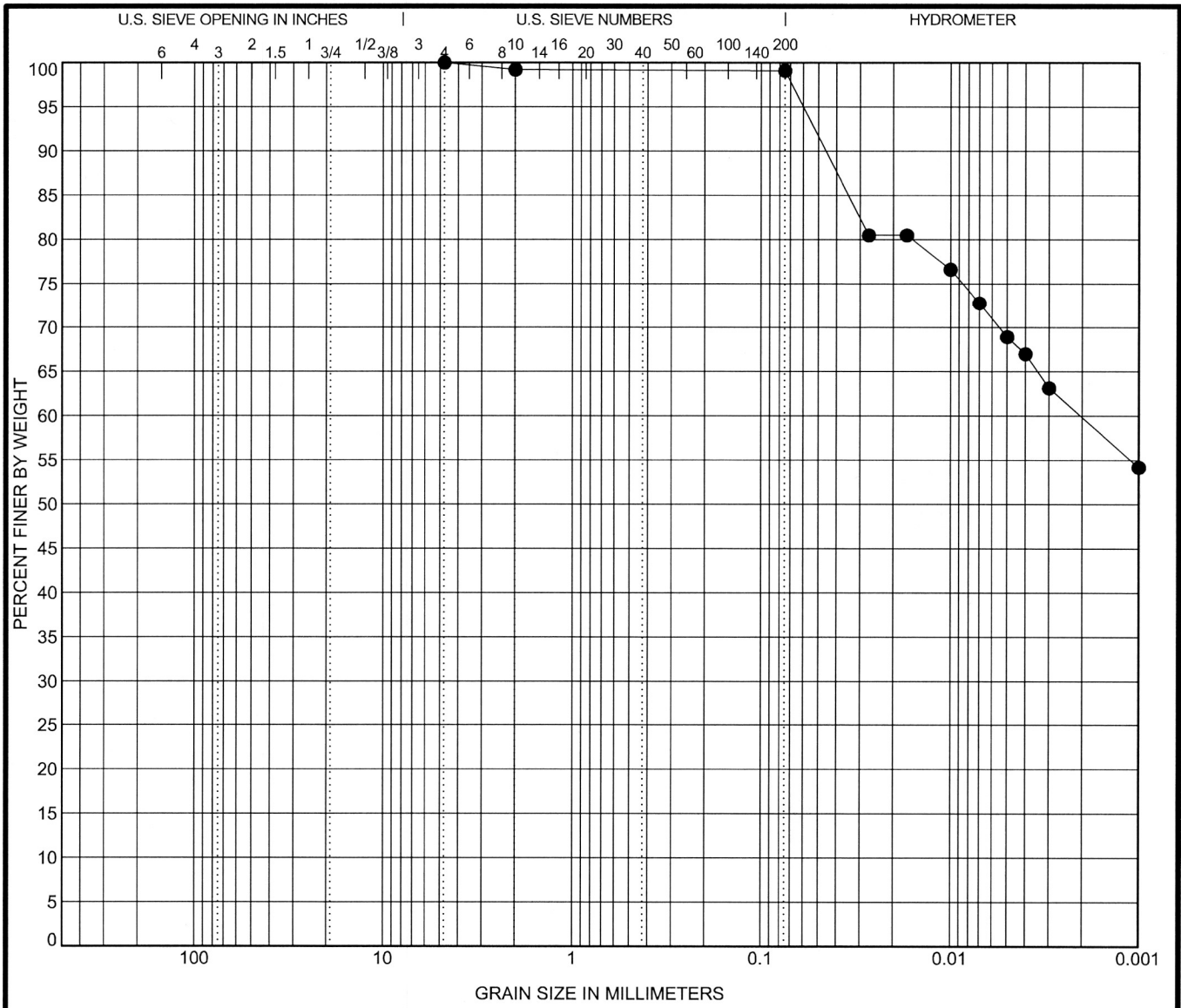
Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN



GRADATION CURVE

Project: ARM Environmental Lab Testing
College Corner
SC
Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI	Test Method			
● SB-11 30.0 ft	LEAN CLAY (CL), light brown	--	--	--	Atterberg ASTM D4318			
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	4.75	0.002			0.0	0.9	39.3	59.8

Percent Finer			
Sieve Size	200	10	4
% Finer	99.1	99.2	100.0

Tested By	Tested Date	Reviewed by	Calc by
DLH	12/12/23	SRH	LN



Schnabel
ENGINEERING

GRADATION CURVE
Project: ARM Environmental Lab Testing
 College Corner
 SC
Contract: 17C19041.000

SIEVE 1/SHEET ARM ENV. LAB.GPJ TEST TEMPLATE.GDT 12/17/23



17C19041.000

CHAIN OF CUSTODY RECORD

1210 1 st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209				PHONE: 803-783-3314				FAX: 803-783-2587				
Project # 33-3010.1-23	Preservative 2. NaOH 3. H ₂ SO ₄ 1. Unpreserved 4. HNO ₃			5. HCl 6. Na ₂ S ₂ O ₃ 7. 5035 Kit			3	2	1	1		# of Containers
Project Name College Corner	Laboratory Utilized Schnabel Engineering			G = Grab C = Composite Matrix S., GW, DW, DI, Other			5	5	4	1		Preservative
Sampler Name (print) Paul Myers	Sampler Signature <i>Paul Myers</i>			BTEX+NH ₄ +DCA+Oxy by 8260D EDB by 8011					Total Lead by 6010D		Grainsize/ Hydrometer	
Sample ID / Description	Date	Time									Remarks	
SB-3 @ 17'	12/11/23	09:54	G	S						X		
SB-3 @ 27'	12/11/23	12:30	G	S						X		
SB-9 @ 25'	12/11/23	13:40	G	S						X		
SB-11 @ 27'	12/11/23	15:05	G	S						X		
SB-11 @ 30'	12/11/23	15:00	G	S						X		
Relinquished by / Sampler <i>Paul Myers</i>			Date 12/11	Time 1545	Received by <i>[Signature]</i>				Date 12/11/23	Time 3:48 pm	Project Manager Joseph Goings	
Relinquished by			Date	Time	Received by				Date	Time	P.O. Number	
Relinquished by			Date	Time	Received by				Date	Time		



December 15, 2023

Joseph Goings
ARM Environmental
1210 1st Street S. Extension
Columbia, SC 29209

RE: Project: COLLEGE CORNER
Pace Project No.: 92702649

Dear Joseph Goings:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COLLEGE CORNER
Pace Project No.: 92702649

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92702649001	TMW-1	Water	12/05/23 09:54	12/08/23 08:00
92702649002	TMW-2	Water	12/05/23 12:30	12/08/23 08:00
92702649003	TMW-3	Water	12/05/23 13:40	12/08/23 08:00
92702649004	TMW-4	Water	12/05/23 15:00	12/08/23 08:00
92702649005	TMW-5	Water	12/06/23 10:50	12/08/23 08:00
92702649006	TMW-7	Water	12/06/23 12:40	12/08/23 08:00
92702649007	TMW-8	Water	12/06/23 13:00	12/08/23 08:00
92702649008	TMW-9	Water	12/06/23 14:30	12/08/23 08:00
92702649009	TMW-10	Water	12/07/23 10:20	12/08/23 08:00
92702649010	TMW-11	Water	12/07/23 09:40	12/08/23 08:00
92702649011	TMW-12	Water	12/07/23 12:00	12/08/23 08:00
92702649012	TMW-13	Water	12/07/23 11:05	12/08/23 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92702649001	TMW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649002	TMW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649003	TMW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92702649004	TMW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92702649005	TMW-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92702649006	TMW-7	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649007	TMW-8	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649008	TMW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649009	TMW-10	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649010	TMW-11	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649011	TMW-12	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92702649012	TMW-13	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92702649001	TMW-1					
EPA 8260D	Benzene	24.9	ug/L	4.0	12/15/23 08:55	
EPA 8260D	1,2-Dichloroethane	14.8	ug/L	4.0	12/15/23 08:55	v1
EPA 8260D	Diisopropyl ether	59.3	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Ethylbenzene	49.0	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Methyl-tert-butyl ether	692	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Naphthalene	23.0	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Toluene	11.5	ug/L	4.0	12/15/23 08:55	
EPA 8260D	Xylene (Total)	190	ug/L	4.0	12/15/23 08:55	
92702649002	TMW-2					
EPA 8260D	tert-Amyl Alcohol	1120	ug/L	1000	12/15/23 09:13	
EPA 8260D	Benzene	1150	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Diisopropyl ether	53.5	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Ethylbenzene	720	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Methyl-tert-butyl ether	84.8	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Naphthalene	272	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Toluene	278	ug/L	10.0	12/15/23 09:13	
EPA 8260D	Xylene (Total)	2280	ug/L	10.0	12/15/23 09:13	
92702649006	TMW-7					
EPA 8260D	tert-Amyl Alcohol	1050	ug/L	1000	12/15/23 10:26	
EPA 8260D	Benzene	947	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Diisopropyl ether	41.4	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Ethylbenzene	1030	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Methyl-tert-butyl ether	10.2	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Naphthalene	316	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Toluene	43.2	ug/L	10.0	12/15/23 10:26	
EPA 8260D	Xylene (Total)	2630	ug/L	10.0	12/15/23 10:26	
92702649008	TMW-9					
EPA 8260D	Xylene (Total)	3.5	ug/L	1.0	12/15/23 07:42	
92702649009	TMW-10					
EPA 8260D	tert-Amyl Alcohol	591	ug/L	500	12/15/23 10:44	
EPA 8260D	Benzene	346	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Diisopropyl ether	23.1	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Ethylbenzene	671	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Methyl-tert-butyl ether	50.7	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Naphthalene	232	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Toluene	568	ug/L	5.0	12/15/23 10:44	
EPA 8260D	Xylene (Total)	1630	ug/L	5.0	12/15/23 10:44	
92702649010	TMW-11					
EPA 8260D	Ethylbenzene	2750	ug/L	50.0	12/15/23 09:31	
EPA 8260D	Naphthalene	694	ug/L	50.0	12/15/23 09:31	
EPA 8260D	Toluene	1630	ug/L	50.0	12/15/23 09:31	
EPA 8260D	Xylene (Total)	13600	ug/L	50.0	12/15/23 09:31	
92702649011	TMW-12					
EPA 8260D	Toluene	1.7	ug/L	1.0	12/15/23 08:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92702649012	TMW-13					
EPA 8260D	Benzene	1.7	ug/L	1.0	12/15/23 08:00	
EPA 8260D	Ethylbenzene	3.8	ug/L	1.0	12/15/23 08:00	
EPA 8260D	Toluene	5.5	ug/L	1.0	12/15/23 08:00	
EPA 8260D	Xylene (Total)	11.6	ug/L	1.0	12/15/23 08:00	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-1	Lab ID: 92702649001	Collected: 12/05/23 09:54	Received: 12/08/23 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP								
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/11/23 14:53	12/12/23 00:38	106-93-4	L1
Surrogates								
1-Chloro-2-bromopropane (S)	130	%	60-140	1	12/11/23 14:53	12/12/23 00:38	301-79-56	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	400	4		12/15/23 08:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	4		12/15/23 08:55	994-05-8	
Benzene	24.9	ug/L	4.0	4		12/15/23 08:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	4		12/15/23 08:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	4		12/15/23 08:55	75-65-0	
tert-Butyl Formate	ND	ug/L	200	4		12/15/23 08:55	762-75-4	
1,2-Dichloroethane	14.8	ug/L	4.0	4		12/15/23 08:55	107-06-2	v1
Diisopropyl ether	59.3	ug/L	4.0	4		12/15/23 08:55	108-20-3	
Ethanol	ND	ug/L	800	4		12/15/23 08:55	64-17-5	
Ethylbenzene	49.0	ug/L	4.0	4		12/15/23 08:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	4		12/15/23 08:55	637-92-3	
Methyl-tert-butyl ether	692	ug/L	4.0	4		12/15/23 08:55	1634-04-4	
Naphthalene	23.0	ug/L	4.0	4		12/15/23 08:55	91-20-3	
Toluene	11.5	ug/L	4.0	4		12/15/23 08:55	108-88-3	
Xylene (Total)	190	ug/L	4.0	4		12/15/23 08:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	4		12/15/23 08:55	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	4		12/15/23 08:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130	4		12/15/23 08:55	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: **TMW-2** Lab ID: **92702649002** Collected: 12/05/23 12:30 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	12/12/23 10:09	12/12/23 15:51	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	99	%	60-140	1	12/12/23 10:09	12/12/23 15:51	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	1120	ug/L	1000	10		12/15/23 09:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	10		12/15/23 09:13	994-05-8	
Benzene	1150	ug/L	10.0	10		12/15/23 09:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		12/15/23 09:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	10		12/15/23 09:13	75-65-0	
tert-Butyl Formate	ND	ug/L	500	10		12/15/23 09:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	10		12/15/23 09:13	107-06-2	v1
Diisopropyl ether	53.5	ug/L	10.0	10		12/15/23 09:13	108-20-3	
Ethanol	ND	ug/L	2000	10		12/15/23 09:13	64-17-5	
Ethylbenzene	720	ug/L	10.0	10		12/15/23 09:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	10		12/15/23 09:13	637-92-3	
Methyl-tert-butyl ether	84.8	ug/L	10.0	10		12/15/23 09:13	1634-04-4	
Naphthalene	272	ug/L	10.0	10		12/15/23 09:13	91-20-3	
Toluene	278	ug/L	10.0	10		12/15/23 09:13	108-88-3	
Xylene (Total)	2280	ug/L	10.0	10		12/15/23 09:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	10		12/15/23 09:13	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	10		12/15/23 09:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130	10		12/15/23 09:13	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-3	Lab ID: 92702649003	Collected: 12/05/23 13:40	Received: 12/08/23 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:01	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	98	%	60-140	1	12/12/23 10:09	12/12/23 16:01	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		12/12/23 13:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/12/23 13:18	994-05-8	
Benzene	ND	ug/L	1.0	1		12/12/23 13:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/12/23 13:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/12/23 13:18	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		12/12/23 13:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/23 13:18	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		12/12/23 13:18	108-20-3	
Ethanol	ND	ug/L	200	1		12/12/23 13:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/12/23 13:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/12/23 13:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/23 13:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/12/23 13:18	91-20-3	
Toluene	ND	ug/L	1.0	1		12/12/23 13:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/12/23 13:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/12/23 13:18	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		12/12/23 13:18	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		12/12/23 13:18	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: **TMW-4** Lab ID: **92702649004** Collected: 12/05/23 15:00 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

8011 GCS EDB and DBCP

Analytical Method: EPA 8011 Preparation Method: EPA 8011
 Pace Analytical Services - Charlotte

1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:12	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	92	%	60-140	1	12/12/23 10:09	12/12/23 16:12	301-79-56	

8260 MSV Low Level SC

Analytical Method: EPA 8260D
 Pace Analytical Services - Charlotte

tert-Amyl Alcohol	ND	ug/L	100	1		12/12/23 13:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/12/23 13:36	994-05-8	
Benzene	ND	ug/L	1.0	1		12/12/23 13:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/12/23 13:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/12/23 13:36	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		12/12/23 13:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/23 13:36	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		12/12/23 13:36	108-20-3	
Ethanol	ND	ug/L	200	1		12/12/23 13:36	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/12/23 13:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/12/23 13:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/23 13:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/12/23 13:36	91-20-3	
Toluene	ND	ug/L	1.0	1		12/12/23 13:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/12/23 13:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/12/23 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		12/12/23 13:36	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/12/23 13:36	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample:	Lab ID:	Collected:	Received:	Matrix:				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/12/23 10:09	12/12/23 16:23	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	100	%	60-140	1	12/12/23 10:09	12/12/23 16:23	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		12/12/23 13:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/12/23 13:53	994-05-8	
Benzene	ND	ug/L	1.0	1		12/12/23 13:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/12/23 13:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/12/23 13:53	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	1		12/12/23 13:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/12/23 13:53	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		12/12/23 13:53	108-20-3	
Ethanol	ND	ug/L	200	1		12/12/23 13:53	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/12/23 13:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/12/23 13:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/12/23 13:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/12/23 13:53	91-20-3	
Toluene	ND	ug/L	1.0	1		12/12/23 13:53	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/12/23 13:53	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		12/12/23 13:53	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		12/12/23 13:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/12/23 13:53	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-7	Lab ID: 92702649006	Collected: 12/06/23 12:40	Received: 12/08/23 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/12/23 10:09	12/12/23 16:33	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	106	%	60-140	1	12/12/23 10:09	12/12/23 16:33	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	1050	ug/L	1000	10		12/15/23 10:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	10		12/15/23 10:26	994-05-8	
Benzene	947	ug/L	10.0	10		12/15/23 10:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		12/15/23 10:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	10		12/15/23 10:26	75-65-0	
tert-Butyl Formate	ND	ug/L	500	10		12/15/23 10:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	10		12/15/23 10:26	107-06-2	v1
Diisopropyl ether	41.4	ug/L	10.0	10		12/15/23 10:26	108-20-3	
Ethanol	ND	ug/L	2000	10		12/15/23 10:26	64-17-5	
Ethylbenzene	1030	ug/L	10.0	10		12/15/23 10:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	10		12/15/23 10:26	637-92-3	
Methyl-tert-butyl ether	10.2	ug/L	10.0	10		12/15/23 10:26	1634-04-4	
Naphthalene	316	ug/L	10.0	10		12/15/23 10:26	91-20-3	
Toluene	43.2	ug/L	10.0	10		12/15/23 10:26	108-88-3	
Xylene (Total)	2630	ug/L	10.0	10		12/15/23 10:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	10		12/15/23 10:26	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	10		12/15/23 10:26	17060-07-0	
Toluene-d8 (S)	102	%	70-130	10		12/15/23 10:26	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-8	Lab ID: 92702649007	Collected: 12/06/23 13:00	Received: 12/08/23 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP								
Analytical Method: EPA 8011 Preparation Method: EPA 8011								
Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:44	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	100	%	60-140	1	12/12/23 10:09	12/12/23 16:44	301-79-56	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 07:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 07:23	994-05-8	
Benzene	ND	ug/L	1.0	1		12/15/23 07:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 07:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 07:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 07:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 07:23	107-06-2	v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 07:23	108-20-3	
Ethanol	ND	ug/L	200	1		12/15/23 07:23	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/15/23 07:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 07:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 07:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/15/23 07:23	91-20-3	
Toluene	ND	ug/L	1.0	1		12/15/23 07:23	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/15/23 07:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/15/23 07:23	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130	1		12/15/23 07:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/15/23 07:23	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-9	Lab ID: 92702649008	Collected: 12/06/23 14:30	Received: 12/08/23 08:00	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 16:55	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140	1	12/12/23 10:09	12/12/23 16:55	301-79-56		
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 07:42	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 07:42	994-05-8		
Benzene	ND	ug/L	1.0	1		12/15/23 07:42	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 07:42	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 07:42	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 07:42	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 07:42	107-06-2		v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 07:42	108-20-3		
Ethanol	ND	ug/L	200	1		12/15/23 07:42	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		12/15/23 07:42	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 07:42	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 07:42	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/15/23 07:42	91-20-3		
Toluene	ND	ug/L	1.0	1		12/15/23 07:42	108-88-3		
Xylene (Total)	3.5	ug/L	1.0	1		12/15/23 07:42	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130	1		12/15/23 07:42	460-00-4		
1,2-Dichloroethane-d4 (S)	122	%	70-130	1		12/15/23 07:42	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		12/15/23 07:42	2037-26-5		

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-10	Lab ID: 92702649009	Collected: 12/07/23 10:20	Received: 12/08/23 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	12/12/23 10:09	12/12/23 17:48	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	105	%	60-140	1	12/12/23 10:09	12/12/23 17:48	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	591	ug/L	500	5		12/15/23 10:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	5		12/15/23 10:44	994-05-8	
Benzene	346	ug/L	5.0	5		12/15/23 10:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	5		12/15/23 10:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	5		12/15/23 10:44	75-65-0	
tert-Butyl Formate	ND	ug/L	250	5		12/15/23 10:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/15/23 10:44	107-06-2	v1
Diisopropyl ether	23.1	ug/L	5.0	5		12/15/23 10:44	108-20-3	
Ethanol	ND	ug/L	1000	5		12/15/23 10:44	64-17-5	
Ethylbenzene	671	ug/L	5.0	5		12/15/23 10:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	5		12/15/23 10:44	637-92-3	
Methyl-tert-butyl ether	50.7	ug/L	5.0	5		12/15/23 10:44	1634-04-4	
Naphthalene	232	ug/L	5.0	5		12/15/23 10:44	91-20-3	
Toluene	568	ug/L	5.0	5		12/15/23 10:44	108-88-3	
Xylene (Total)	1630	ug/L	5.0	5		12/15/23 10:44	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	5		12/15/23 10:44	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	5		12/15/23 10:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130	5		12/15/23 10:44	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: **TMW-11** Lab ID: **92702649010** Collected: 12/07/23 09:40 Received: 12/08/23 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP								
Analytical Method: EPA 8011 Preparation Method: EPA 8011								
Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/12/23 10:09	12/12/23 18:09	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	88	%	60-140	1	12/12/23 10:09	12/12/23 18:09	301-79-56	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	50		12/15/23 09:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		12/15/23 09:31	994-05-8	
Benzene	ND	ug/L	50.0	50		12/15/23 09:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		12/15/23 09:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		12/15/23 09:31	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		12/15/23 09:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	50		12/15/23 09:31	107-06-2	v1
Diisopropyl ether	ND	ug/L	50.0	50		12/15/23 09:31	108-20-3	
Ethanol	ND	ug/L	10000	50		12/15/23 09:31	64-17-5	
Ethylbenzene	2750	ug/L	50.0	50		12/15/23 09:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		12/15/23 09:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		12/15/23 09:31	1634-04-4	
Naphthalene	694	ug/L	50.0	50		12/15/23 09:31	91-20-3	
Toluene	1630	ug/L	50.0	50		12/15/23 09:31	108-88-3	
Xylene (Total)	13600	ug/L	50.0	50		12/15/23 09:31	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	50		12/15/23 09:31	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	50		12/15/23 09:31	17060-07-0	
Toluene-d8 (S)	102	%	70-130	50		12/15/23 09:31	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-12	Lab ID: 92702649011	Collected: 12/07/23 12:00	Received: 12/08/23 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	12/12/23 10:09	12/12/23 18:41	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	97	%	60-140	1	12/12/23 10:09	12/12/23 18:41	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 08:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 08:18	994-05-8	
Benzene	ND	ug/L	1.0	1		12/15/23 08:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 08:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 08:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 08:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 08:18	107-06-2	v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 08:18	108-20-3	
Ethanol	ND	ug/L	200	1		12/15/23 08:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		12/15/23 08:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 08:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 08:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/15/23 08:18	91-20-3	
Toluene	1.7	ug/L	1.0	1		12/15/23 08:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/15/23 08:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/15/23 08:18	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/15/23 08:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/15/23 08:18	2037-26-5	

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ANALYTICAL RESULTS

Project: COLLEGE CORNER
 Pace Project No.: 92702649

Sample: TMW-13	Lab ID: 92702649012	Collected: 12/07/23 11:05	Received: 12/08/23 08:00	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	12/12/23 10:09	12/12/23 18:52	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140	1	12/12/23 10:09	12/12/23 18:52	301-79-56		
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	1		12/15/23 08:00	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/15/23 08:00	994-05-8		
Benzene	1.7	ug/L	1.0	1		12/15/23 08:00	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/15/23 08:00	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		12/15/23 08:00	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		12/15/23 08:00	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/15/23 08:00	107-06-2		v1
Diisopropyl ether	ND	ug/L	1.0	1		12/15/23 08:00	108-20-3		
Ethanol	ND	ug/L	200	1		12/15/23 08:00	64-17-5		
Ethylbenzene	3.8	ug/L	1.0	1		12/15/23 08:00	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/15/23 08:00	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/15/23 08:00	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/15/23 08:00	91-20-3		
Toluene	5.5	ug/L	1.0	1		12/15/23 08:00	108-88-3		
Xylene (Total)	11.6	ug/L	1.0	1		12/15/23 08:00	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	1		12/15/23 08:00	460-00-4		
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/15/23 08:00	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		12/15/23 08:00	2037-26-5		

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

QC Batch: 818674 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92702649003, 92702649004, 92702649005

METHOD BLANK: 4237669 Matrix: Water
 Associated Lab Samples: 92702649003, 92702649004, 92702649005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	12/12/23 11:31	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/12/23 11:31	
Benzene	ug/L	ND	1.0	12/12/23 11:31	
Diisopropyl ether	ug/L	ND	1.0	12/12/23 11:31	
Ethanol	ug/L	ND	200	12/12/23 11:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/12/23 11:31	
Ethylbenzene	ug/L	ND	1.0	12/12/23 11:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/12/23 11:31	
Naphthalene	ug/L	ND	1.0	12/12/23 11:31	
tert-Amyl Alcohol	ug/L	ND	100	12/12/23 11:31	
tert-Amylmethyl ether	ug/L	ND	10.0	12/12/23 11:31	
tert-Butyl Alcohol	ug/L	ND	100	12/12/23 11:31	v2
tert-Butyl Formate	ug/L	ND	50.0	12/12/23 11:31	
Toluene	ug/L	ND	1.0	12/12/23 11:31	
Xylene (Total)	ug/L	ND	1.0	12/12/23 11:31	
1,2-Dichloroethane-d4 (S)	%	86	70-130	12/12/23 11:31	
4-Bromofluorobenzene (S)	%	95	70-130	12/12/23 11:31	
Toluene-d8 (S)	%	96	70-130	12/12/23 11:31	

LABORATORY CONTROL SAMPLE: 4237670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.1	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	348	87	70-130	
Benzene	ug/L	20	18.9	94	70-130	
Diisopropyl ether	ug/L	20	16.7	84	70-130	
Ethanol	ug/L	800	719	90	70-130	
Ethyl-tert-butyl ether	ug/L	40	33.0	82	70-130	
Ethylbenzene	ug/L	20	19.4	97	70-130	
Methyl-tert-butyl ether	ug/L	20	16.8	84	70-130	
Naphthalene	ug/L	20	22.3	111	70-130	
tert-Amyl Alcohol	ug/L	400	368	92	70-130	
tert-Amylmethyl ether	ug/L	40	38.0	95	70-130	
tert-Butyl Alcohol	ug/L	200	156	78	70-130 v3	
tert-Butyl Formate	ug/L	160	137	86	70-130	
Toluene	ug/L	20	18.8	94	70-130	
Xylene (Total)	ug/L	60	59.3	99	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

LABORATORY CONTROL SAMPLE: 4237670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4237671

Parameter	Units	92702649003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	24.4	122	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	496	124	39-157	
Benzene	ug/L	ND	20	25.2	126	70-151	
Diisopropyl ether	ug/L	ND	20	23.2	116	63-144	
Ethanol	ug/L	ND	800	957	120	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	45.7	114	66-137	
Ethylbenzene	ug/L	ND	20	24.2	121	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	22.8	114	54-156	
Naphthalene	ug/L	ND	20	25.9	129	61-148	
tert-Amyl Alcohol	ug/L	ND	400	498	124	54-153	
tert-Amylmethyl ether	ug/L	ND	40	48.5	121	69-139	
tert-Butyl Alcohol	ug/L	ND	200	224	112	43-188	
tert-Butyl Formate	ug/L	ND	160	101	63	10-170	
Toluene	ug/L	ND	20	25.1	122	59-148	
Xylene (Total)	ug/L	ND	60	74.6	124	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4237672

Parameter	Units	92702649004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	.47J		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	.8J		30	
Xylene (Total)	ug/L	ND	3.7		30	
1,2-Dichloroethane-d4 (S)	%	86	100			
4-Bromofluorobenzene (S)	%	94	100			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

SAMPLE DUPLICATE: 4237672

Parameter	Units	92702649004 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	95	101			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

QC Batch: 819557 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92702649001, 92702649002, 92702649006, 92702649007, 92702649008, 92702649009, 92702649010, 92702649011, 92702649012

METHOD BLANK: 4242258 Matrix: Water
 Associated Lab Samples: 92702649001, 92702649002, 92702649006, 92702649007, 92702649008, 92702649009, 92702649010, 92702649011, 92702649012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	12/15/23 01:18	v1
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/15/23 01:18	
Benzene	ug/L	ND	1.0	12/15/23 01:18	
Diisopropyl ether	ug/L	ND	1.0	12/15/23 01:18	
Ethanol	ug/L	ND	200	12/15/23 01:18	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/15/23 01:18	
Ethylbenzene	ug/L	ND	1.0	12/15/23 01:18	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/15/23 01:18	
Naphthalene	ug/L	ND	1.0	12/15/23 01:18	
tert-Amyl Alcohol	ug/L	ND	100	12/15/23 01:18	
tert-Amylmethyl ether	ug/L	ND	10.0	12/15/23 01:18	
tert-Butyl Alcohol	ug/L	ND	100	12/15/23 01:18	
tert-Butyl Formate	ug/L	ND	50.0	12/15/23 01:18	
Toluene	ug/L	ND	1.0	12/15/23 01:18	
Xylene (Total)	ug/L	ND	1.0	12/15/23 01:18	
1,2-Dichloroethane-d4 (S)	%	119	70-130	12/15/23 01:18	
4-Bromofluorobenzene (S)	%	100	70-130	12/15/23 01:18	
Toluene-d8 (S)	%	99	70-130	12/15/23 01:18	

LABORATORY CONTROL SAMPLE: 4242259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	24.9	125	70-130	v1
3,3-Dimethyl-1-Butanol	ug/L	400	339	85	70-130	
Benzene	ug/L	20	21.9	109	70-130	
Diisopropyl ether	ug/L	20	23.0	115	70-130	
Ethanol	ug/L	800	902	113	70-130	
Ethyl-tert-butyl ether	ug/L	40	44.6	111	70-130	
Ethylbenzene	ug/L	20	20.8	104	70-130	
Methyl-tert-butyl ether	ug/L	20	21.5	108	70-130	
Naphthalene	ug/L	20	17.5	87	70-130	
tert-Amyl Alcohol	ug/L	400	343	86	70-130	
tert-Amylmethyl ether	ug/L	40	40.2	101	70-130	
tert-Butyl Alcohol	ug/L	200	161	80	70-130	
tert-Butyl Formate	ug/L	160	132	82	70-130	
Toluene	ug/L	20	20.3	102	70-130	
Xylene (Total)	ug/L	60	62.7	104	70-130	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

LABORATORY CONTROL SAMPLE: 4242259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			120	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4242260

Parameter	Units	92702614001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.0	110	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	370	92	39-157	
Benzene	ug/L	23.5	20	55.9	162	70-151	M1
Diisopropyl ether	ug/L	2.2	20	24.0	109	63-144	
Ethanol	ug/L	ND	800	1030	129	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	38.8	97	66-137	
Ethylbenzene	ug/L	ND	20	24.6	121	66-153	
Methyl-tert-butyl ether	ug/L	5.9	20	26.8	104	54-156	
Naphthalene	ug/L	14.5	20	58.4	219	61-148	M1
tert-Amyl Alcohol	ug/L	ND	400	589	147	54-153	
tert-Amylmethyl ether	ug/L	ND	40	43.5	109	69-139	
tert-Butyl Alcohol	ug/L	ND	200	267	123	43-188	v3
tert-Butyl Formate	ug/L	ND	160	ND	10	10-170	v2
Toluene	ug/L	ND	20	21.9	109	59-148	
Xylene (Total)	ug/L	ND	60	72.9	121	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 4242261

Parameter	Units	92702614002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	1.1	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30 v2	
tert-Butyl Formate	ug/L	ND	ND		30 v2	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
Pace Project No.: 92702649

SAMPLE DUPLICATE: 4242261

Parameter	Units	92702614002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	120	105			
4-Bromofluorobenzene (S)	%	99	95			
Toluene-d8 (S)	%	101	96			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

QC Batch: 818591 Analysis Method: EPA 8011
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92702649001

METHOD BLANK: 4237268 Matrix: Water
 Associated Lab Samples: 92702649001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.021	12/11/23 20:13	
1-Chloro-2-bromopropane (S)	%	121	60-140	12/11/23 20:13	

LABORATORY CONTROL SAMPLE & LCSD: 4237269 4237270

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.37	0.37	146	147	60-140	0	20	L1
1-Chloro-2-bromopropane (S)	%				135	135	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4237271 4237272

Parameter	Units	92701296019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.37	0.38	142	145	60-140	3	20	M0
1-Chloro-2-bromopropane (S)	%						126	130	60-140			

SAMPLE DUPLICATE: 4237273

Parameter	Units	92701296022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	131	128			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

QC Batch: 818816 Analysis Method: EPA 8011
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92702649002, 92702649003, 92702649004, 92702649005, 92702649006, 92702649007, 92702649008

METHOD BLANK: 4238401 Matrix: Water
 Associated Lab Samples: 92702649002, 92702649003, 92702649004, 92702649005, 92702649006, 92702649007, 92702649008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/12/23 12:28	
1-Chloro-2-bromopropane (S)	%	83	60-140	12/12/23 12:28	

LABORATORY CONTROL SAMPLE & LCSD: 4238402 4238403

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.30	110	121	60-140	10	20	
1-Chloro-2-bromopropane (S)	%				106	116	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238405 4238406

Parameter	Units	92702559006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.27	104	109	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						111	108	60-140			

SAMPLE DUPLICATE: 4238404

Parameter	Units	92702559005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	99	101			

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QUALITY CONTROL DATA

Project: COLLEGE CORNER
 Pace Project No.: 92702649

QC Batch: 818817 Analysis Method: EPA 8011
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92702649009, 92702649010, 92702649011, 92702649012

METHOD BLANK: 4238407 Matrix: Water
 Associated Lab Samples: 92702649009, 92702649010, 92702649011, 92702649012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/12/23 17:16	
1-Chloro-2-bromopropane (S)	%	102	60-140	12/12/23 17:16	

LABORATORY CONTROL SAMPLE & LCSD: 4238408 4238409

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.26	108	103	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				104	102	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238411 4238412

Parameter	Units	92702649010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.30	0.30	120	120	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						96	103	60-140			

SAMPLE DUPLICATE: 4238410

Parameter	Units	92702649009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	105	101			

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QUALIFIERS

Project: COLLEGE CORNER
Pace Project No.: 92702649

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2 The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COLLEGE CORNER
Pace Project No.: 92702649

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92702649001	TMW-1	EPA 8011	818591	EPA 8011	818732
92702649002	TMW-2	EPA 8011	818816	EPA 8011	818926
92702649003	TMW-3	EPA 8011	818816	EPA 8011	818926
92702649004	TMW-4	EPA 8011	818816	EPA 8011	818926
92702649005	TMW-5	EPA 8011	818816	EPA 8011	818926
92702649006	TMW-7	EPA 8011	818816	EPA 8011	818926
92702649007	TMW-8	EPA 8011	818816	EPA 8011	818926
92702649008	TMW-9	EPA 8011	818816	EPA 8011	818926
92702649009	TMW-10	EPA 8011	818817	EPA 8011	818927
92702649010	TMW-11	EPA 8011	818817	EPA 8011	818927
92702649011	TMW-12	EPA 8011	818817	EPA 8011	818927
92702649012	TMW-13	EPA 8011	818817	EPA 8011	818927
92702649001	TMW-1	EPA 8260D	819557		
92702649002	TMW-2	EPA 8260D	819557		
92702649003	TMW-3	EPA 8260D	818674		
92702649004	TMW-4	EPA 8260D	818674		
92702649005	TMW-5	EPA 8260D	818674		
92702649006	TMW-7	EPA 8260D	819557		
92702649007	TMW-8	EPA 8260D	819557		
92702649008	TMW-9	EPA 8260D	819557		
92702649009	TMW-10	EPA 8260D	819557		
92702649010	TMW-11	EPA 8260D	819557		
92702649011	TMW-12	EPA 8260D	819557		
92702649012	TMW-13	EPA 8260D	819557		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Effective Date: 11/29/2023 4:16:30 PM

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #: **WO# : 92702649**

ARM



92702649

Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No N/A

Date/Initials Person Examining Contents: 12/18/23

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 927070

Type of Ice: Wet Blue None

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>GW</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO#: 92702649

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: AMB

Due Date: 12/15/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/8015 (water) DOC, LLHg

CLIENT: 92-ARM

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine



Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	5	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	5	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

2

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGfU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN OF CUSTODY RECORD

1210 1st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209

PHONE: 803-783-3314

FAX: 803-783-2587

Project #	Preservative	2. NaOH	5. HCl	3	2	1							# of Containers	
33-3010.1-23	1. Unpreserved	3. H ₂ SO ₄	6. Na ₂ S ₂ O ₃	5	5	4							Preservative	
Project Name	Laboratory Utilized		G = Grab C = Composite	Matrix	s, GW, DW, DI, Other	BTEX+N+M+DCA+Oxy by 8260D	EDB by 8011	Total Lead by 6010D						Remarks
College Corner	Pace Analytical LLC													
Sampler Name (print)	Sampler Signature													
Paul Myers	<i>[Signature]</i>													
Sample ID / Description	Date	Time												
TMW-1	12/05/23	09:54	G	GW	X	X							004	
TMW-2	12/05/23	12:30	G	GW	X	X							002	
TMW-3	12/05/23	13:40	G	GW	X	X							003	
TMW-4	12/05/23	15:00	G	GW	X	X							004	
TMW-5	12/06/23	10:50	G	GW	X	X							005	
TMW-7	12/06/23	12:40	G	GW	X	X							006	
TMW-8	12/06/23	13:00	G	GW	X	X							007	
TMW-9	12/06/23	14:30	G	GW	X	X							008	
TMW-10	12/07/23	10:20	G	GW	X	X							009	
TMW-11	12/07/23	09:40	G	GW	X	X							010	
Relinquished by / Sampler		Date	Time	Received by				Date	Time	Project Manager				
<i>[Signature]</i>		12/7	16:13	<i>[Signature]</i>				12/7/23	10:13	Joseph Goings				
Relinquished by		Date	Time	Received by				Date	Time	P.O. Number				
<i>[Signature]</i>		12/7/23	10:13	<i>[Signature]</i>				12/9/23	8:00					
Relinquished by		Date	Time	Received by				Date	Time					



CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

1210 1st STREET SOUTH EXTENSION COLUMBIA, SOUTH CAROLINA 29209

PHONE: 803-783-3314

FAX: 803-783-2587

Project #	Preservative			G	2	1															# of Containers		
	1. Unpreserved	2. NaOH	3. H ₂ SO ₄																			4. HNO ₃	5. HCl
Project Name	Laboratory Utilized			G = Grab C = Composite	Matrix	S, GW, DW, DI, Other	BTEX+N+M+DCA+Oxy by 8260D	EDB by 8011	Total Lead by 6010D														Remarks
College Corner	Pace Analytical LLC																						
Sampler Name (print)	Sampler Signature																						
Paul Myers	<i>[Signature]</i>																						
Sample ID / Description	Date	Time																					
TMW-12	12/07/23	12:00	G	GW	X	X																	011
TMW-13	12/07/23	11:05	G	GW	X	X																	012
Relinquished by / Sampler	Date	Time	Received by										Date	Time	Project Manager								
<i>[Signature]</i>	12/7	16:13	<i>[Signature]</i>										12/7/23	16:13	Joseph Goings								
Relinquished by	Date	Time	Received by										Date	Time	P.O. Number								
<i>[Signature]</i>	12/7/23	16:13	<i>[Signature]</i>										12/8/23	800									
Relinquished by	Date	Time	Received by										Date	Time									

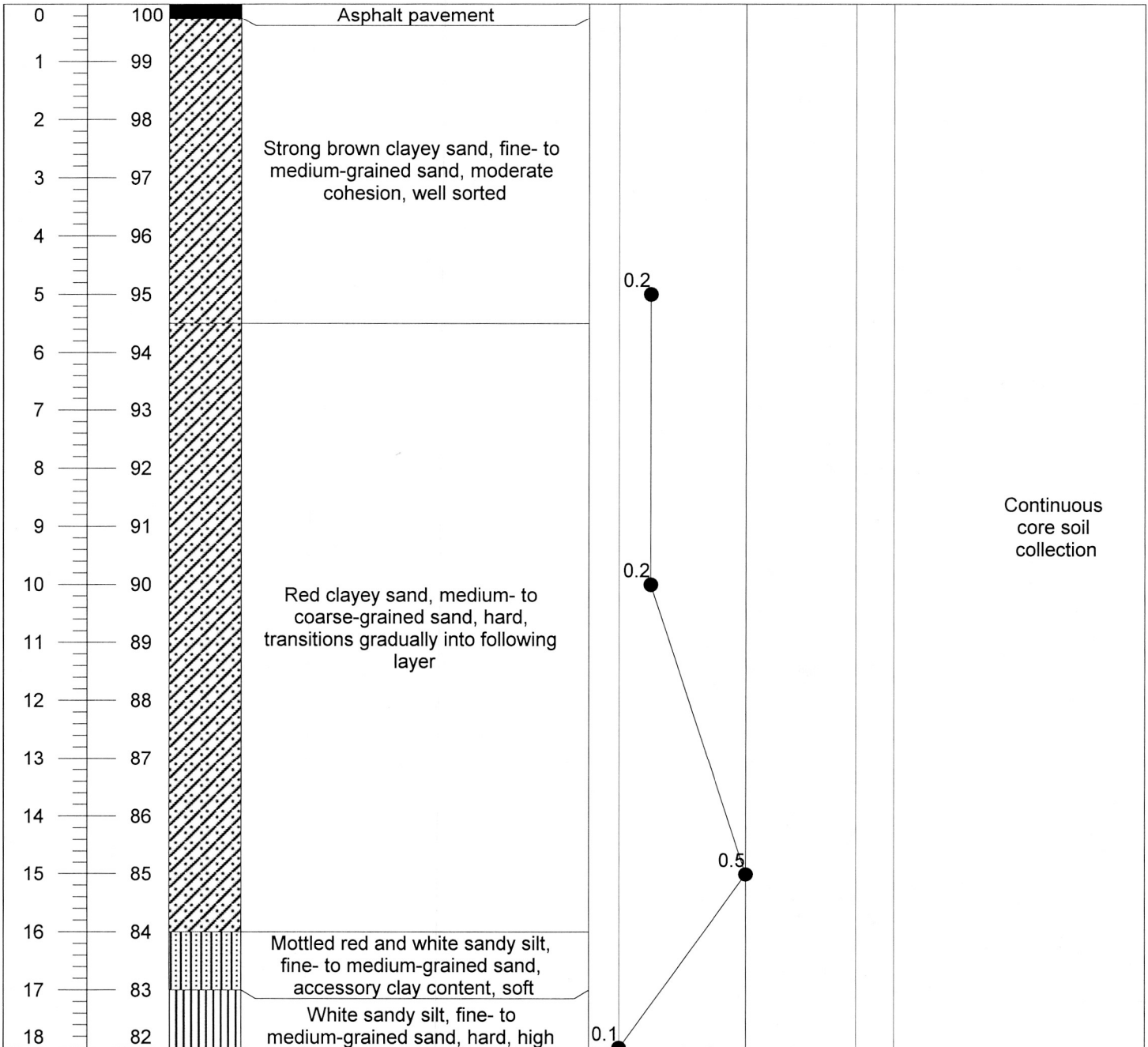
APPENDIX C
NOT INCLUDED

APPENDIX D
SOIL BORING/ FIELD SCREENING LOGS



Borehole ID: SB-1

Depth	Elevation	Lithology	Lithology Description	VOCs 0.1 0.2 0.3 0.4 0.5	Well Construction Diagram
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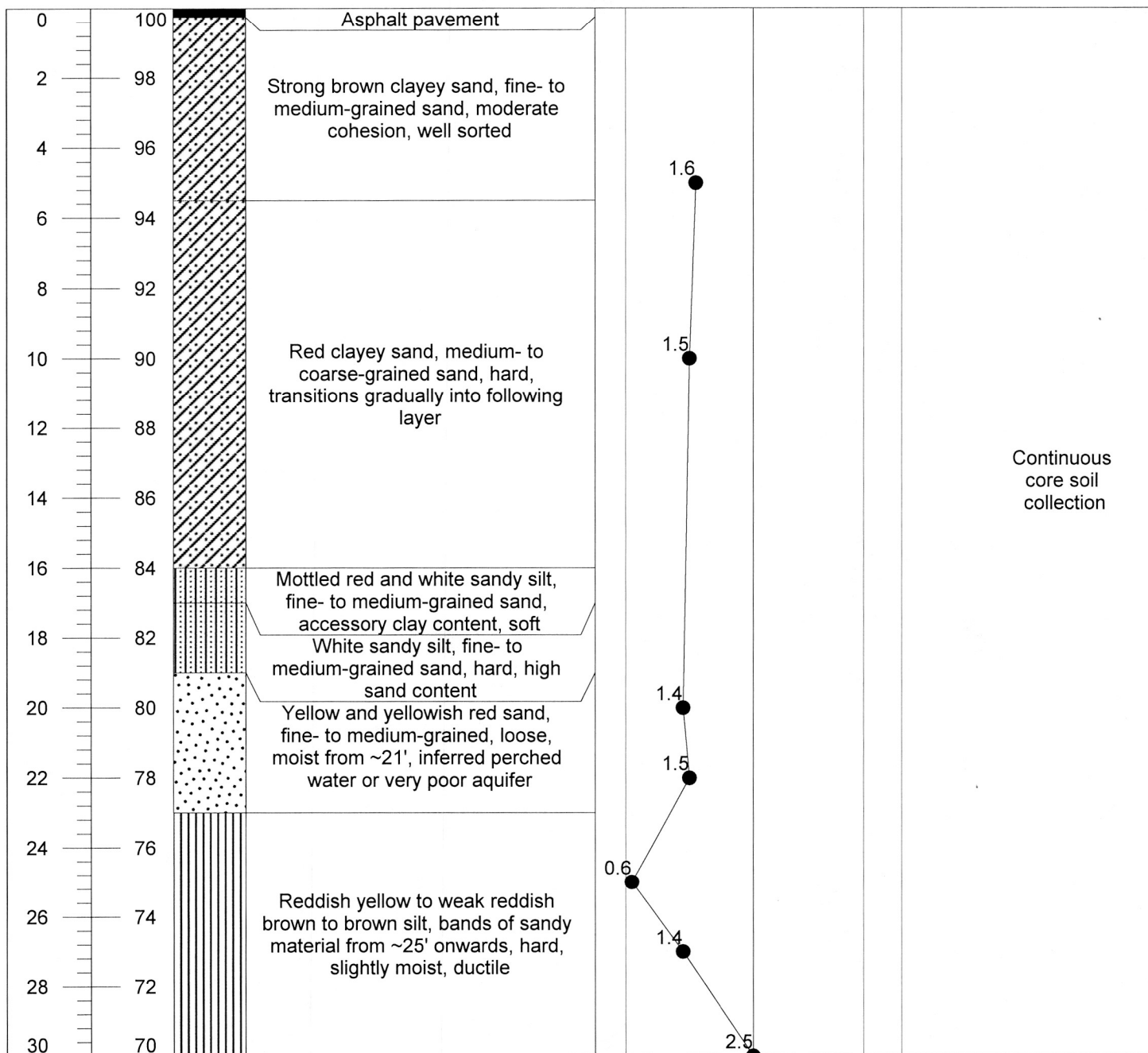


Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 18.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'



Borehole ID: SB-2

Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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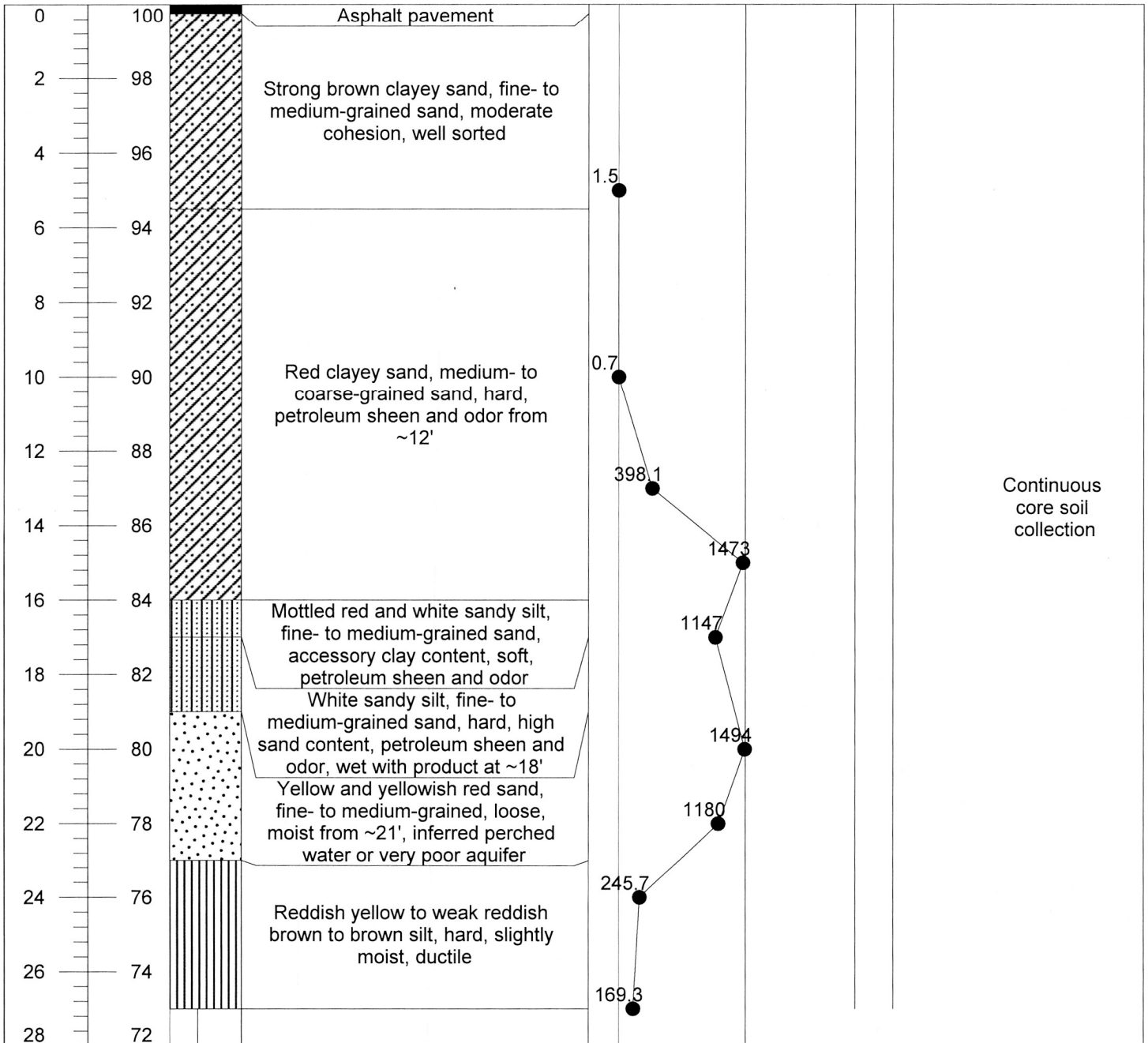


Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'



Borehole ID: SB-3

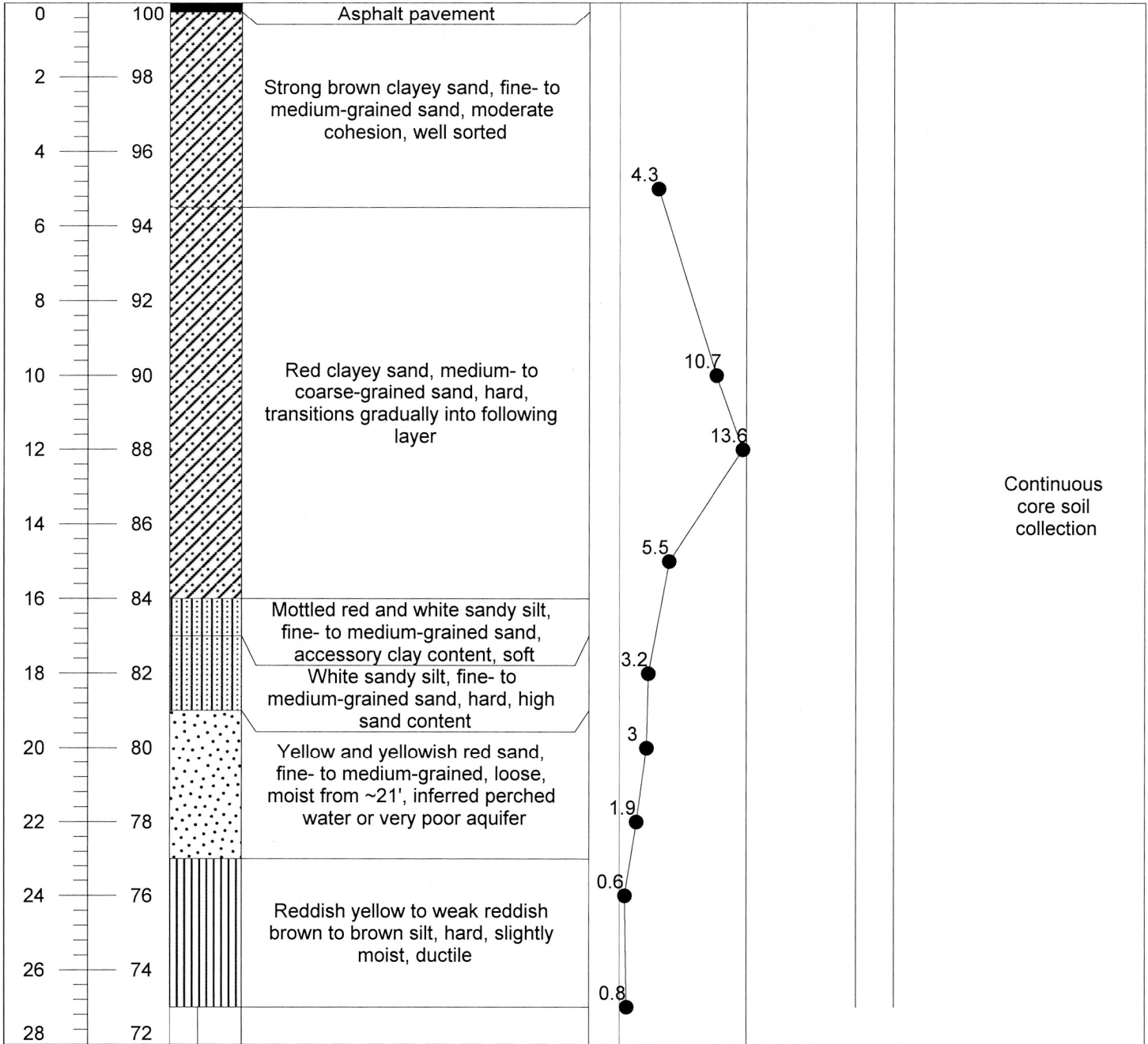
Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'



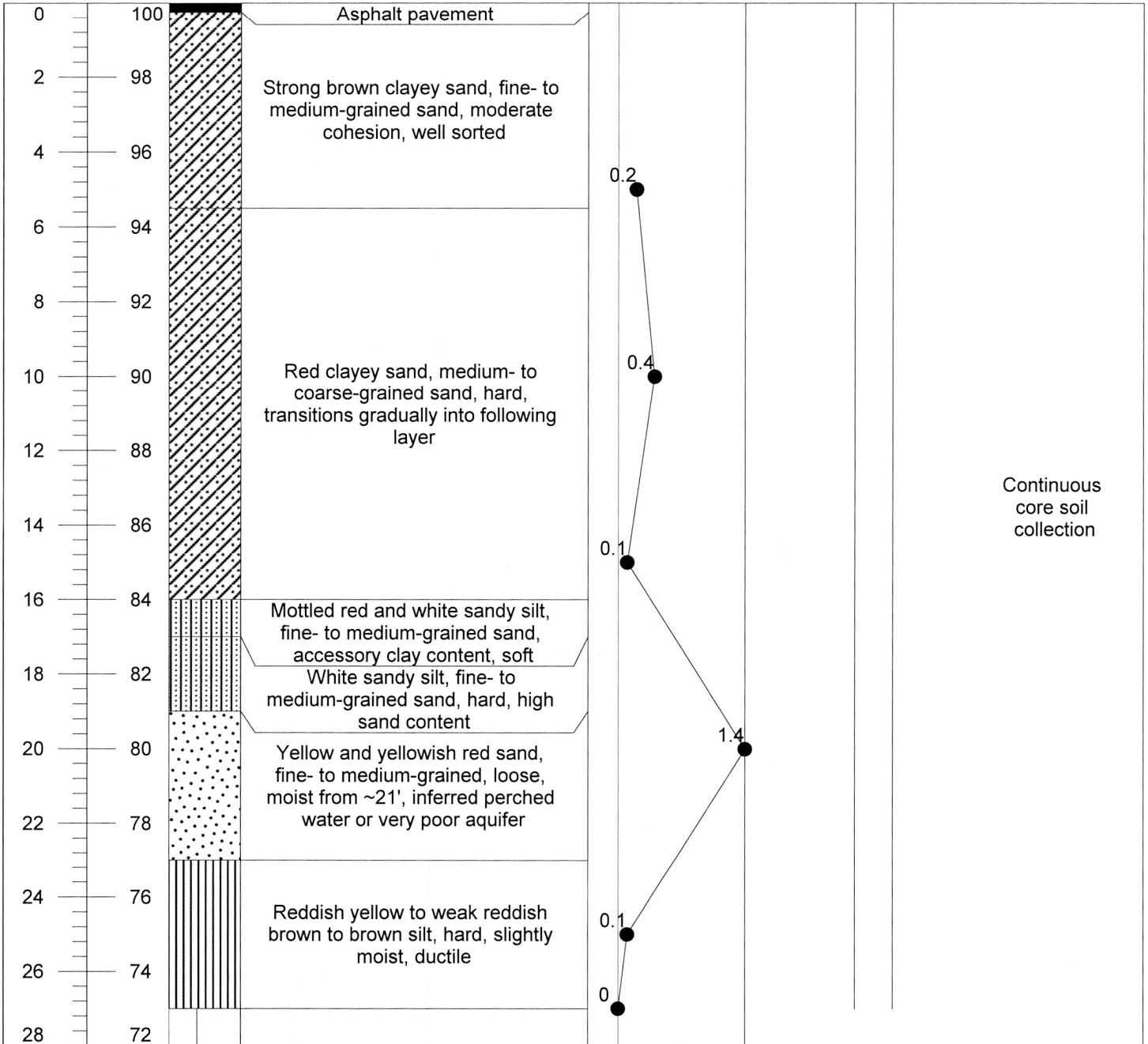
Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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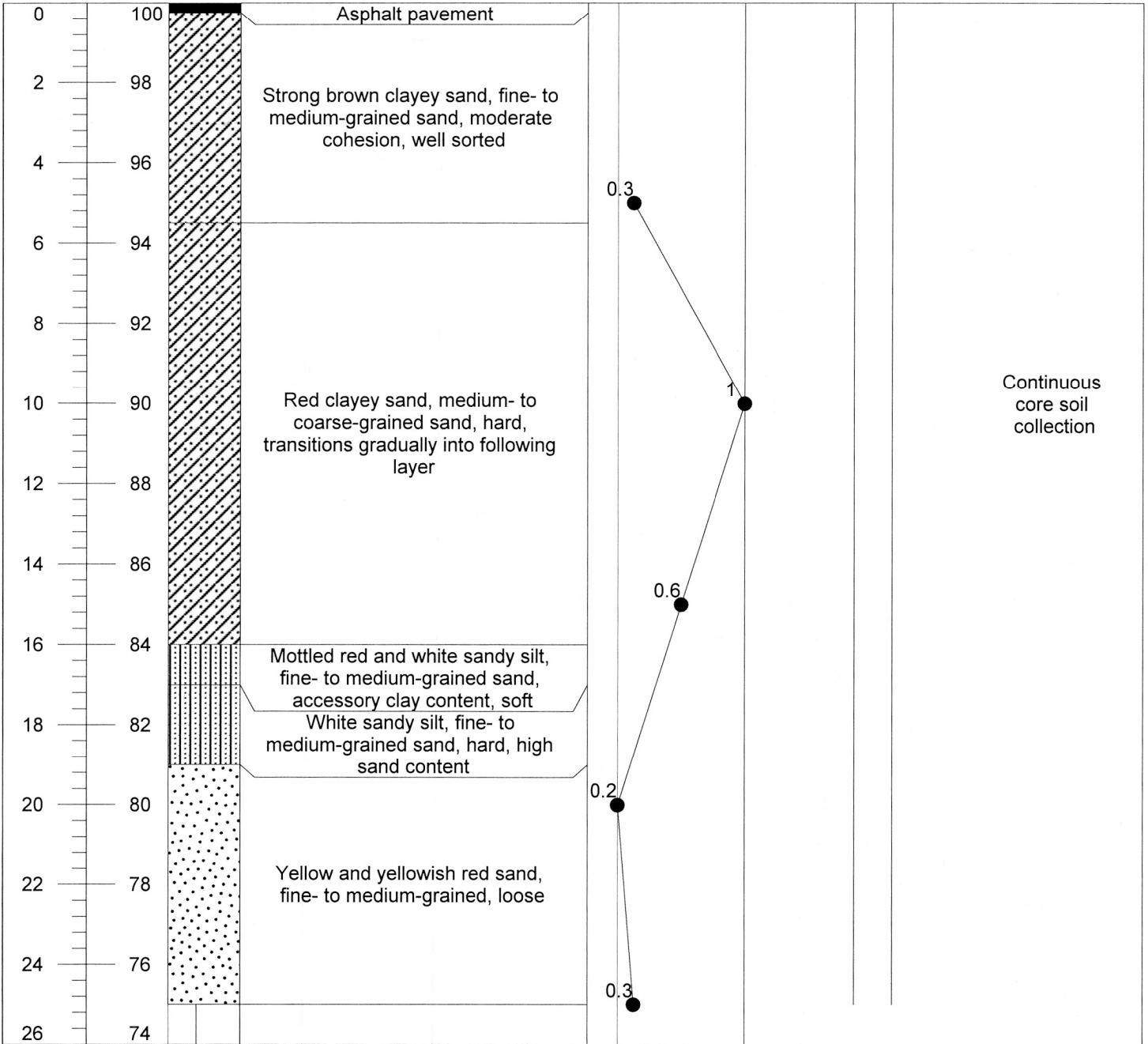


Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/04/23
 Client Name: SC DHEC Latitude: 34.013121°
 Location: Columbia, SC Longitude: -81.015517°

Driller: William Walker, cert #2042B
 Total Depth of Well: 27.0'
 Casing Diameter: N/A"
 Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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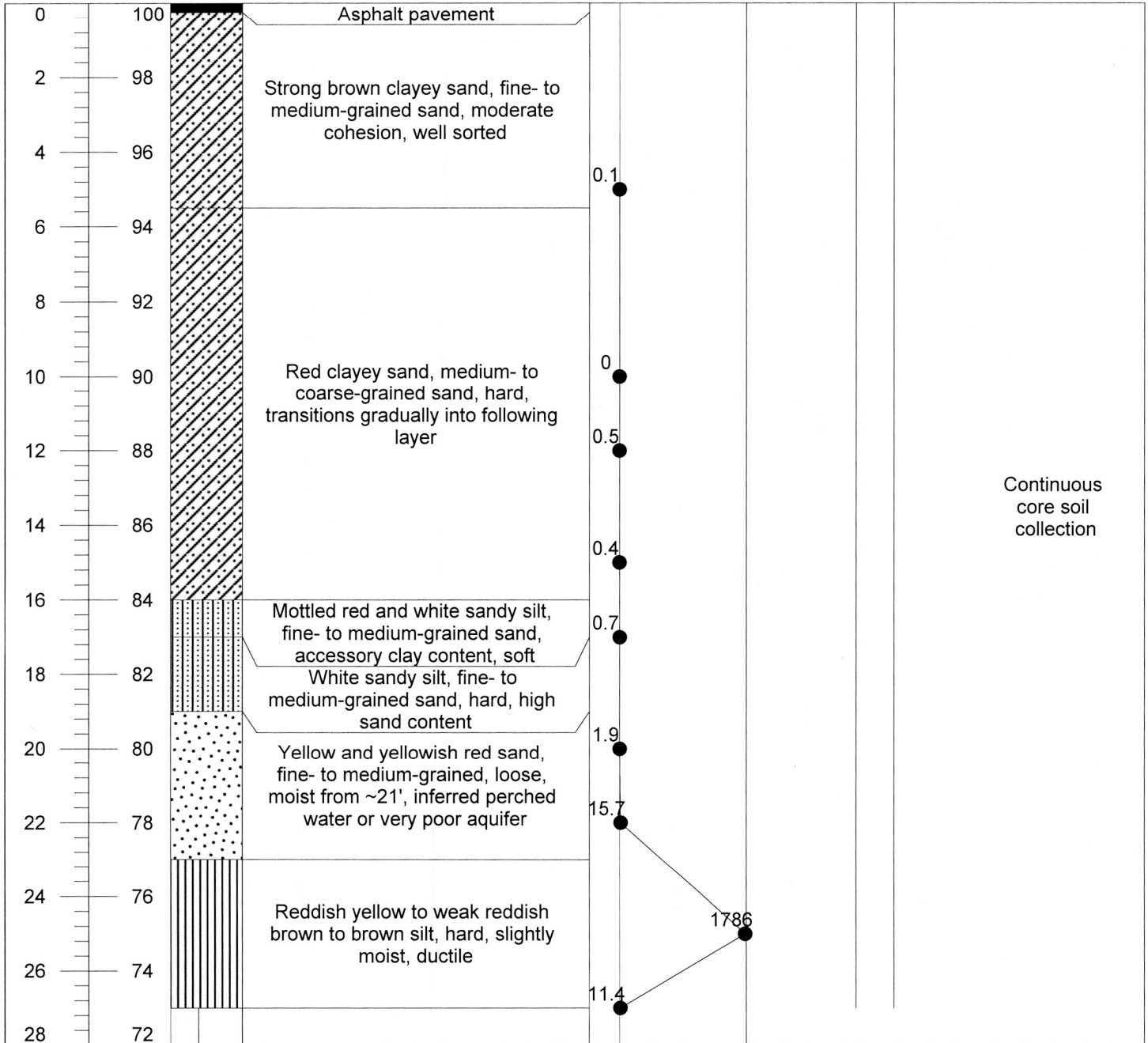


Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/04/23
 Client Name: SC DHEC Latitude: 34.013121°
 Location: Columbia, SC Longitude: -81.015517°

Driller: William Walker, cert #2042B
 Total Depth of Well: 20.0'
 Casing Diameter: N/A"
 Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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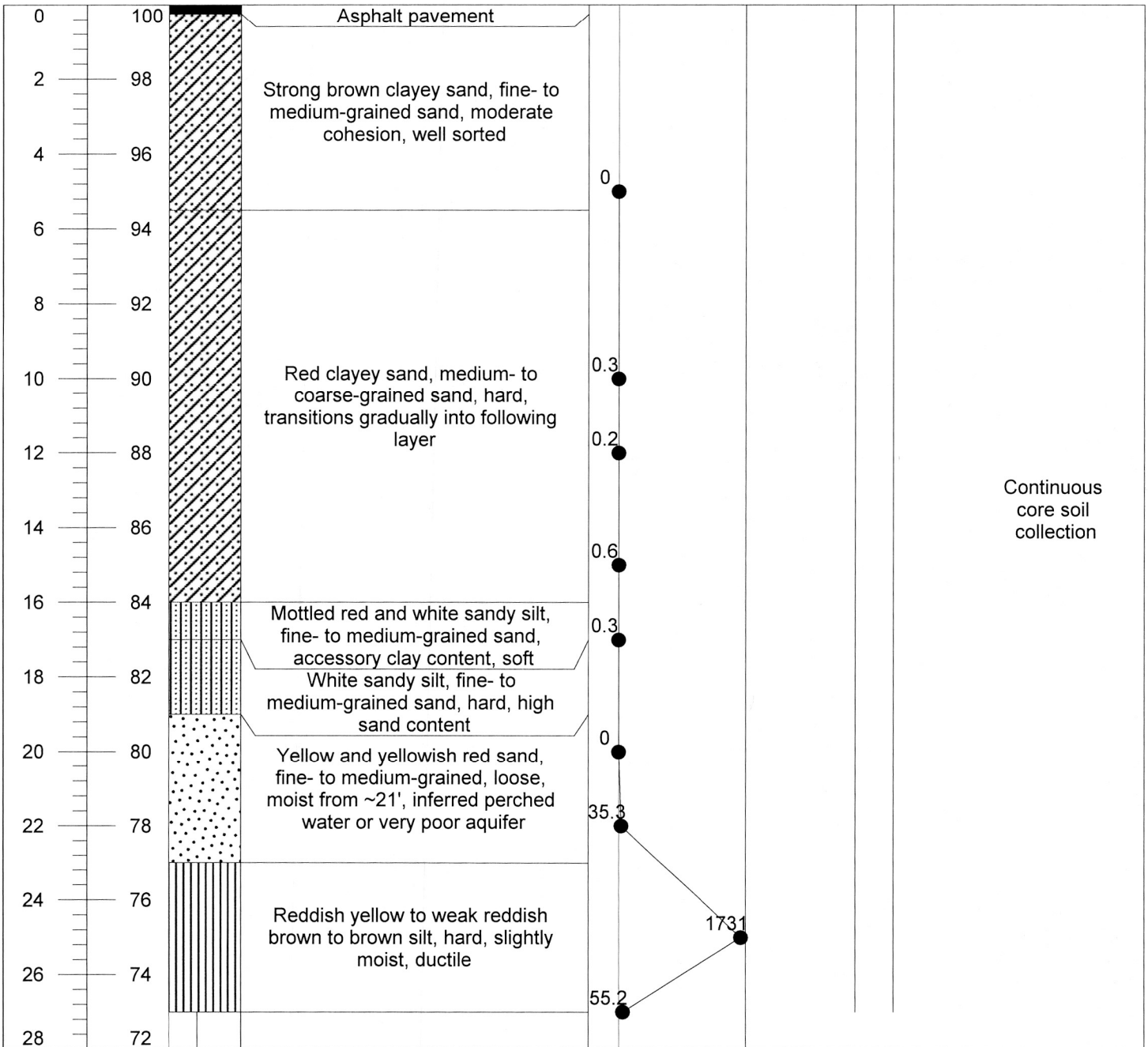


Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/04/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'



Borehole ID: SB-8

Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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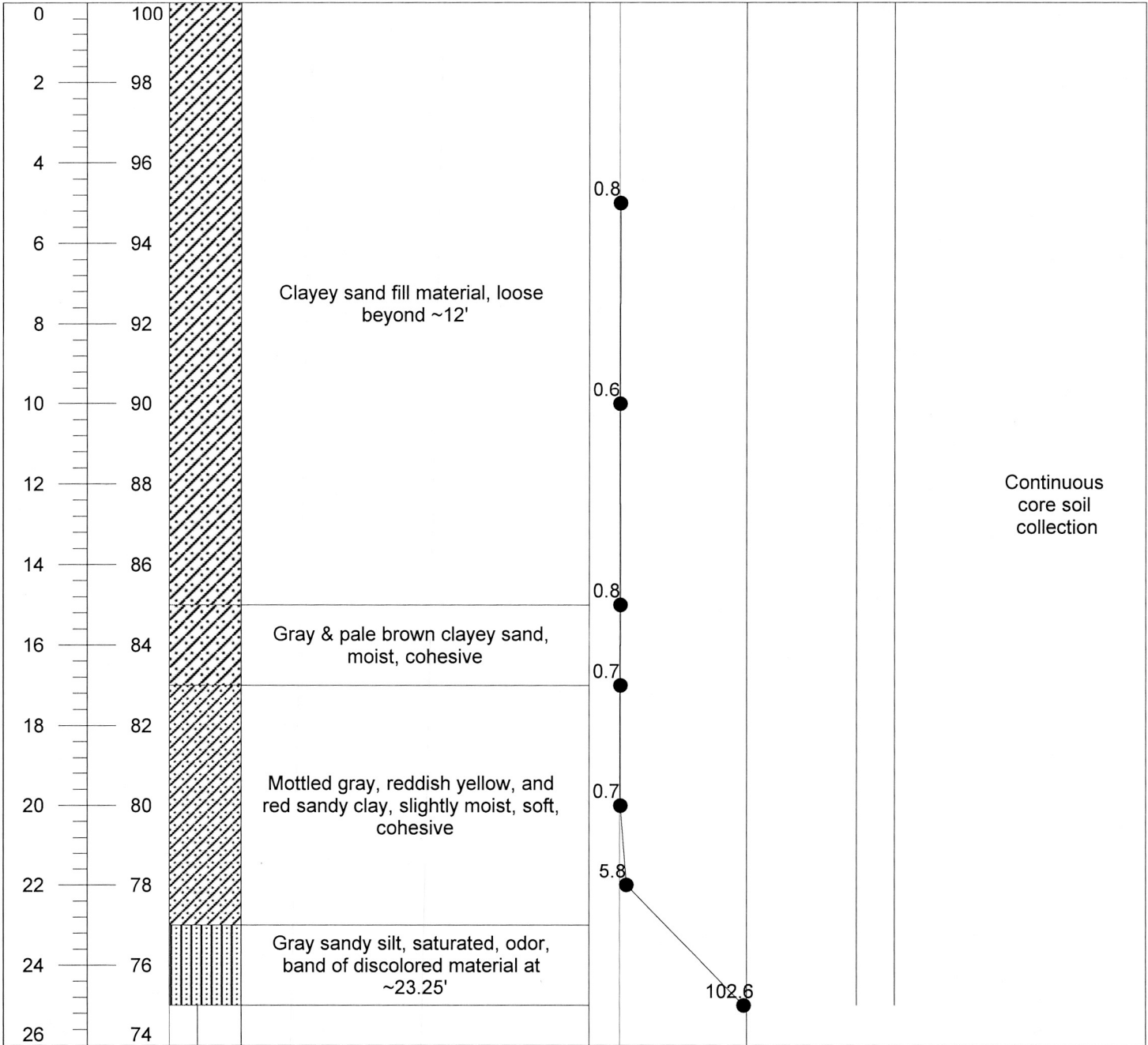


Continuous core soil collection

Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/05/23	Total Depth of Well: 27.0'
Client Name: SC DHEC	Latitude: 34.013121°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.015517°	Depth to Water: N/A'



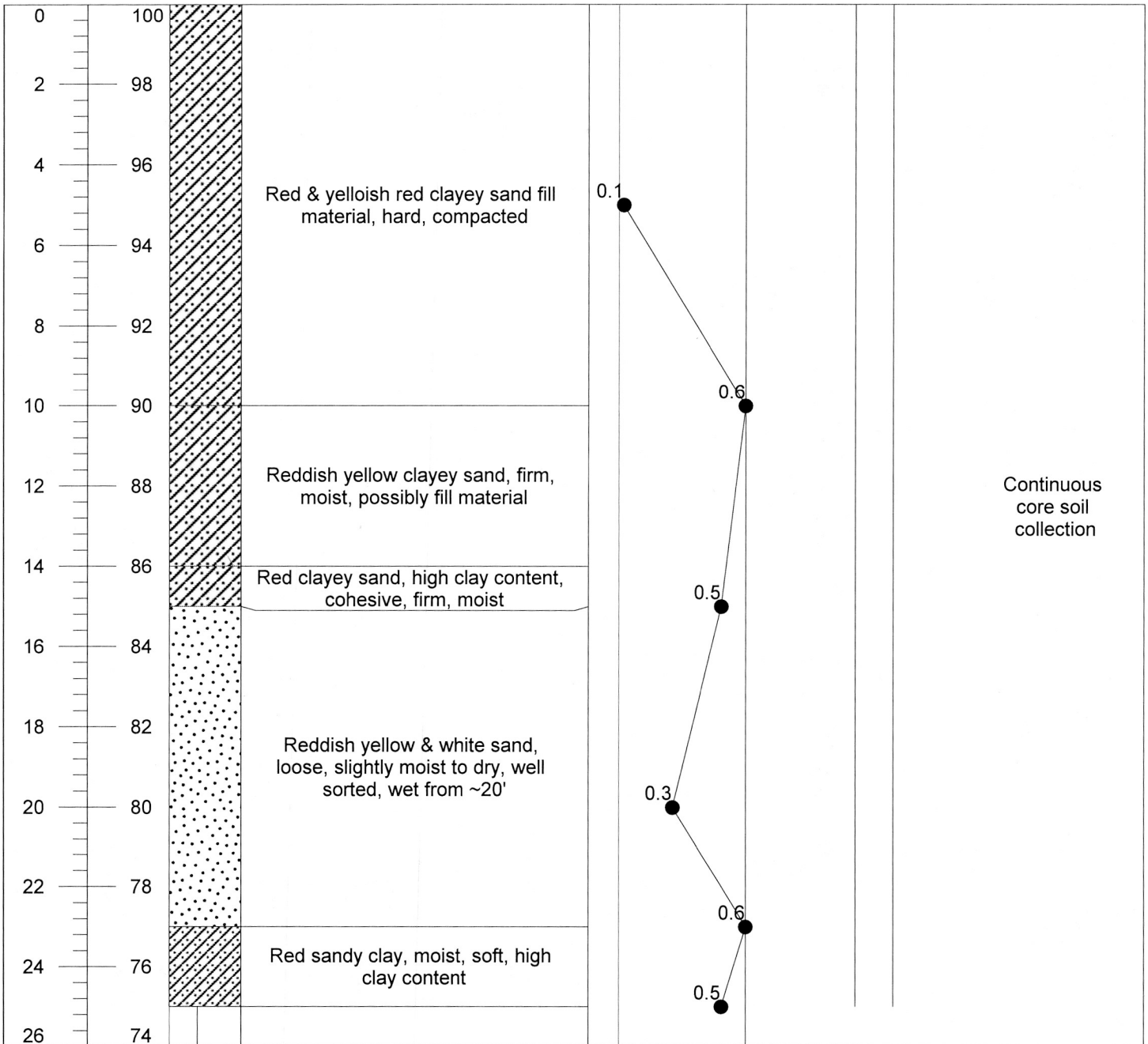
Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/06/23	Total Depth of Well: 25.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'



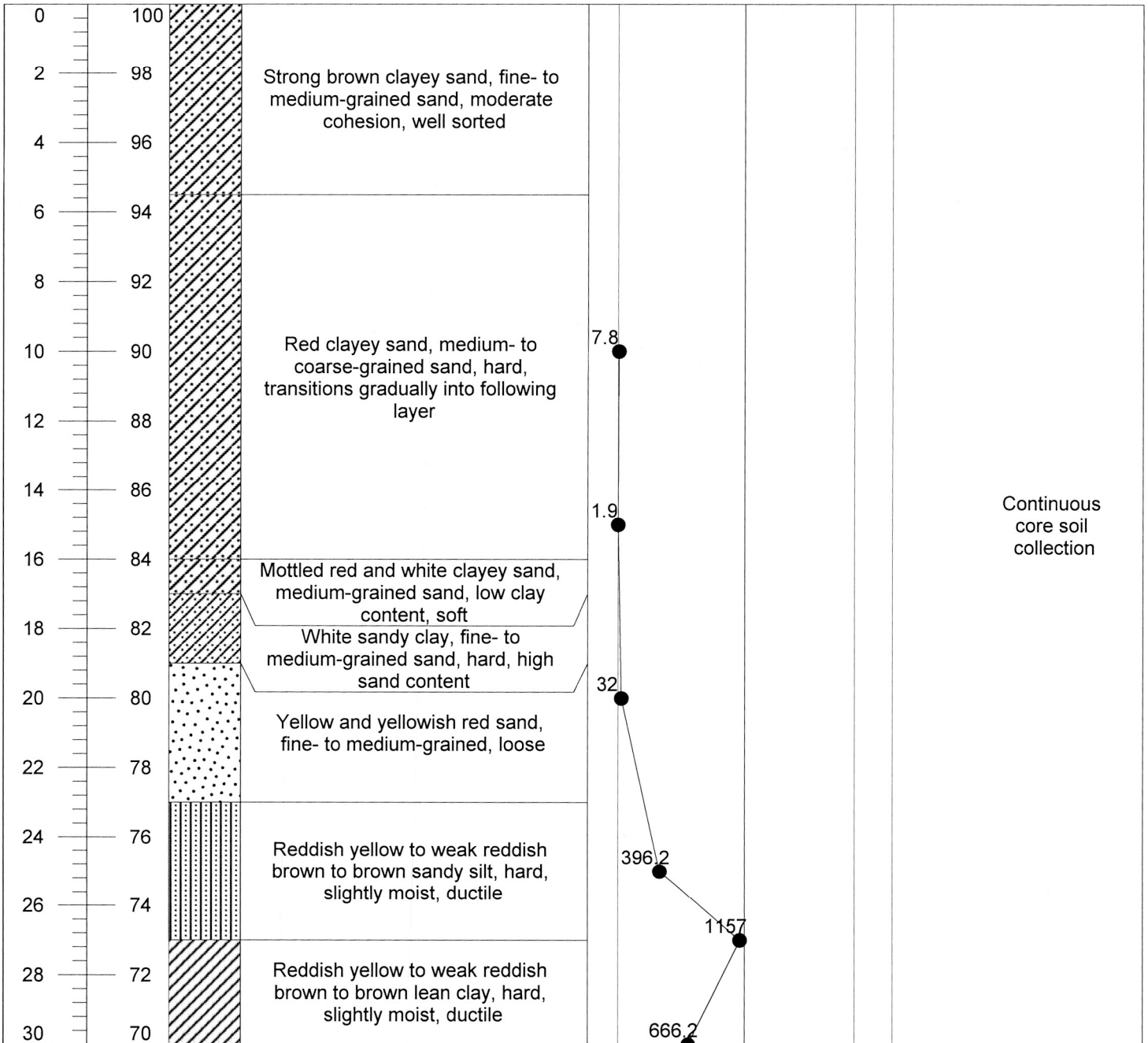
Depth	Elevation	Lithology	Lithology Description	VOCs		Well Construction Diagram
				0.24	0.44	



Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/07/23	Total Depth of Well: 25.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: N/A"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/07/23

Total Depth of Well: 30.0'

Client Name: SC DHEC

Latitude: 34.012278°



Casing Diameter: N/A"

Location: Columbia, SC

Longitude: -81.014573°

Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/05/23
 Client Name: SC DHEC Latitude: 34.013121°
 Location: Columbia, SC Longitude: -81.015517°

Driller: William Walker, cert #2042B
 Total Depth of Well: 33.0'
 Casing Diameter: 1.5"
 Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0	100				
2	98				
4	96				
6	94				
8	92				
10	90				
12	88				
14	86				1.5" Steel rod
16	84				
18	82				
20	80				
22	78				
24	76				
26	74				
28	72				1.5" Steel screenpoint sampler
30	70				

Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/05/23

Total Depth of Well: 30.0'

Client Name: SC DHEC

Latitude: 34.012278°

Casing Diameter: 1.5"

Location: Columbia, SC

Longitude: -81.014573°

Depth to Water: N/A'



Borehole ID: TMW-3

Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24	100 98 96 94 92 90 88 86 84 82 80 78 76				<p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>



Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/05/23
 Client Name: SC DHEC Latitude: 34.012278°
 Location: Columbia, SC Longitude: -81.014573°

Driller: William Walker, cert #2042B
 Total Depth of Well: 23.0'
 Casing Diameter: 1.5"
 Depth to Water: N/A'



ARM
ENVIRONMENTAL SERVICES

Borehole ID: TMW-4



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24	100 98 96 94 92 90 88 86 84 82 80 78 76				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/05/23
 Client Name: SC DHEC Latitude: 34.012278°
 Location: Columbia, SC Longitude: -81.014573°

Driller: William Walker, cert #2042B
 Total Depth of Well: 23.0'
 Casing Diameter: 1.5"
 Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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0 2 4 6 8 10 12 14 16 18 20 22 24 26	100 98 96 94 92 90 88 86 84 82 80 78 76 74				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>
---	---	--	--	--	--

Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/06/23

Total Depth of Well: 25.0'

Client Name: SC DHEC

Latitude: 34.012278°



Casing Diameter: 1.5"

Location: Columbia, SC

Longitude: -81.014573°

Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/06/23

Total Depth of Well: 30.0'

Client Name: SC DHEC

Latitude: 34.012278°



Casing Diameter: 1.5"

Location: Columbia, SC

Longitude: -81.014573°

Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 8.5 9	100 99.5 99 98.5 98 97.5 97 96.5 96 95.5 95 94.5 94 93.5 93 92.5 92 91.5 91				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/06/23
 Client Name: SC DHEC Latitude: 34.012278°
 Location: Columbia, SC Longitude: -81.014573°

Driller: William Walker, cert #2042B
 Total Depth of Well: 9.0'
 Casing Diameter: 1.5"
 Depth to Water: N/A'



ARM
ENVIRONMENTAL SERVICES

Borehole ID: TMW-8

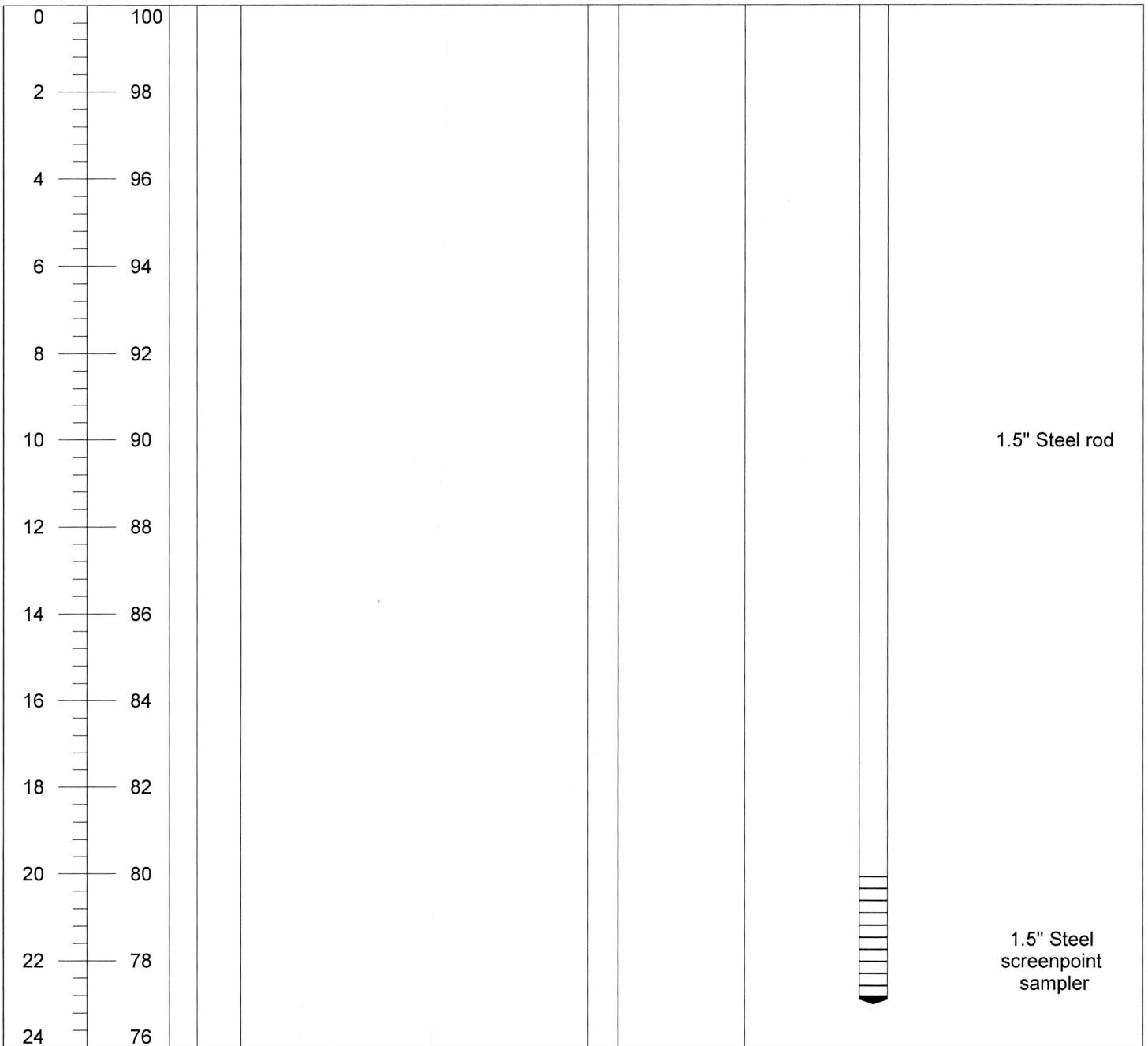
Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0	100			0 0.25 0.5 0.75 1	
1	99				
2	98				
3	97				
4	96				
5	95				
6	94				1.5" Steel rod
7	93				
8	92				
9	91				
10	90				
11	89				
12	88				
13	87				1.5" Steel screenpoint sampler
14	86				

Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/06/23
 Client Name: SC DHEC Latitude: 34.012278°
 Location: Columbia, SC Longitude: -81.014573°

Driller: William Walker, cert #2042B
 Total Depth of Well: 14.0'
 Casing Diameter: 1.5"
 Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
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Project Name: Clouds Chevron / College Corner	Drill Method: Direct push	Driller: William Walker, cert #2042B
Project Number: 33-3010.1-23	Drill Date: 12/06/23	Total Depth of Well: 23.0'
Client Name: SC DHEC	Latitude: 34.012278°	Casing Diameter: 1.5"
Location: Columbia, SC	Longitude: -81.014573°	Depth to Water: N/A'



ARM
ENVIRONMENTAL SERVICES

Borehole ID: TMW-10

Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32	100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68				<p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/07/23

Total Depth of Well: 32.0'

Client Name: SC DHEC

Latitude: 34.012278°

Casing Diameter: 1.5"

Location: Columbia, SC



Longitude: -81.014573°

Depth to Water: N/A'



ARM
ENVIRONMENTAL SERVICES

Borehole ID: TMW-11

Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28	100 98 96 94 92 90 88 86 84 82 80 78 76 74 72				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/07/23

Total Depth of Well: 27.0'

Client Name: SC DHEC

Latitude: 34.012278°

Casing Diameter: 1.5"

Location: Columbia, SC



Longitude: -81.014573°

Depth to Water: N/A'



ARM
ENVIRONMENTAL SERVICES

Borehole ID: TMW-12

Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push

Driller: William Walker, cert #2042B

Project Number: 33-3010.1-23

Drill Date: 12/07/23

Total Depth of Well: 33.0'

Client Name: SC DHEC

Latitude: 34.012278°



Casing Diameter: 1.5"

Location: Columbia, SC

Longitude: -81.014573°

Depth to Water: N/A'



Depth	Elevation	Lithology	Lithology Description	VOCs	Well Construction Diagram
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70				 <p>1.5" Steel rod</p> <p>1.5" Steel screenpoint sampler</p>

Project Name: Clouds Chevron / College Corner Drill Method: Direct push
 Project Number: 33-3010.1-23 Drill Date: 12/07/23
 Client Name: SC DHEC Latitude: 34.012278°
 Location: Columbia, SC Longitude: -81.014573°

Driller: William Walker, cert #2042B
 Total Depth of Well: 29.0'
 Casing Diameter: 1.5"
 Depth to Water: N/A'

APPENDIX E
1903 WELL COMPLETION LOGS



Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION: Name: ACME Petroleum Company (last) (first) Address: 543 Cox Rd., STE C City: Gastonia State: NC Zip: 28054 Telephone: Work: Home:

7. PERMIT NUMBER: UMW-29613, UST Permit #12352, #07777, #07584

2. LOCATION OF WELL: SC COUNTY: Columbia Name: Clouds Chevron / College Corder Street Address: 1600 Two Notch Rd./2367 Taylor St. City: Columbia Zip: 29204 Latitude: 34.013121° Longitude: -81.015517°

8. USE: [] Residential [] Public Supply [] Process [] Irrigation [] Air Conditioning [] Emergency [] Test Well [x] Monitor Well [] Replacement

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

9. WELL DEPTH (completed) 110.0 (total) ft. Date Started: 12/04/23 Date Completed: 12/07/23

4. ABANDONMENT: [x] Yes [] No Grouted Depth: from total depth ft. to 0.0 ft.

10. CASING: [x] Threaded [] Welded Diam.: 1.5" Type: [] PVC [] Galvanized [x] Steel [] Other 1.5" in. to see logs ft. depth

11. SCREEN: Type: Scree-point sampler Diam.: 1.5" Slot/Gauge: 0.010" Length: 3.0' Set Between: see logs ft. and see logs ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET

Table with 3 columns: Formation Description, *Thickness of Stratum, Depth to Bottom of Stratum. Rows include Screening Points (total footage), TMW-2 through TMW-4, TMW-7, SB-9, Max depth, Min depth, and *Indicate Water Bearing Zones.

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: [] Yes (please enclose) [] No Yield: _____

14. WATER QUALITY Chemical Analysis [x] Yes [] No Bacterial Analysis [] Yes [x] No Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) [] Yes [x] No Installed from _____ ft. to _____ ft. Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? [x] Yes [] No [] Neat Cement [] Bentonite [] Bentonite/Cement [] Other _____ Depth: From total depth _____ ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: site ft. _____ direction Type petroleum Well Disinfected [] Yes [x] No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed [x] Mfr. Name: _____ Model No.: _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm TYPE: [] Submersible [] Jet (shallow) [] Turbine [] Jet (deep) [] Reciprocating [] Centrifugal

19. WELL DRILLER: William Walker CERT. NO.: 2042 Address: (Print) Level: A B C D (circle one) PO Box 8446, Columbia, SC, 29202 Telephone No.: 803-551-1950 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: William Walker Date: 2/9/24 Digitally signed by William Walker DN: cn=William Walker, o=Walker, ou=Walker, email=williamwalker@gmail.com, c=US Date: 2024.02.09 15:58:49 -0500

6. TYPE: [] Mud Rotary [] Jetted [] Bored [] Dug [] Air Rotary [x] Driven [] Cable tool [] Other

If D Level Driller, provide supervising driller's name:

APPENDIX F
NOT INCLUDED

APPENDIX G
NOT INCLUDED

APPENDIX H
NOT INCLUDED

APPENDIX I
NOT INCLUDED

APPENDIX J
PROPERTY ACCESS DOCUMENTATION



June 13, 2023

Housing Authority of the City of Columbia
1917 Harden Street
Columbia, SC 29204

Re: Request for Access to Private Property
College Center
UST Permit #07584, 07777, & 12352
2377 Washington Street & 1410 Lyon Street, Columbia, South Carolina
Richland County Tax Map #R11411-04-48 & R11411-04-49

To Whom it May Concern;

The South Carolina Department of Health and Environmental Control (DHEC) has requested an Assessment on the College Center property (UST Permit #07584, 07777, & 12352) in Columbia, South Carolina. ARM Environmental Services, Inc. (ARM) has been contracted to conduct the assessment required by DHEC.

Multiple petroleum releases have been reported between UST Permit #07584, 07777, & 12352 since 1991. The responsible party for the release is SCDHEC.

ARM is requesting your permission to install temporary and/or permanent monitoring wells on your properties (**Richland County TMS #R11411-04-48 & R11411-04-49**) in order to evaluate the extents of the contaminant plume. Temporary monitoring wells are small in diameter, and will be abandoned after installation and sample collection, with surface finishing matching the surrounding area (i.e. concrete, asphalt).

When installed, the permanent monitoring wells will have manhole covers approximately eight inches in diameter and will be finished in concrete, flush with the ground surface. The manhole covers are much like a small underground utility manhole (i.e. water meter). The monitoring wells will be installed in such a way that will not interfere with vehicle or foot traffic. At such time that DHEC closes the release, the monitoring wells will be abandoned in accordance with State regulations and every effort will be made to return the property to its state prior to well installation.

The work required is being done under the direction of DHEC and is also being funded by the State of South Carolina in order to protect human health and the environment.

Request for Access to Private Property
Housing Authority of the City of Columbia
College Center (UST Permit #07584, 07777, & 12352)
Columbia, Richland County, South Carolina
Tax Map #R11411-04-48 & R11411-04-49

ARM is asking for your permission to access your properties for the purposes of monitoring well installation and the associated sampling activities. All efforts will be made to complete the installation activities in a manner to minimize any inconvenience to your business, including completing our assessment activities after business hours. Your permission for site access would be greatly appreciated and will help us to evaluate and monitor the area of groundwater pollution in a timely manner.

Please return the included Right of Entry form in the provided envelope.

We appreciate your assistance in this matter. If you should have any questions or need additional information, please do not hesitate to contact me at (803) 783-3314 or the DHEC project manager for the site, Mr. Matt Wykel, at (803) 898-7705.

Sincerely,
ARM Environmental Services, Inc.

Joseph Goings
Senior Hydrogeologist



RIGHT OF ENTRY
Monitoring Well Installation & Sampling

College Center
UST Permit #07584, 07777, & 12352
Taylor Street & Two Notch Road, Columbia, South Carolina

Subject: Housing Authority of the City of Columbia
1917 Harden Street
Columbia, SC 29204
2377 Washington Street & 1410 Lyon Street, Columbia, South Carolina
Richland County Tax Map #R11411-04-48 & R11411-04-49

ARM Environmental Services, Inc. (ARM) is currently completing an environmental assessment on behalf of the South Carolina Department of Health & Environmental Control (SCDHEC) to assess the extent of a petroleum release from the College Center site, underground storage tank (UST) permit #07584, 07777, & 12352. As part of this assessment, ARM is requesting permission to access your property to install and sample monitoring wells in association with the petroleum release. This assessment is being completed at no cost to you and a copy of the results will be provided to you upon completion. Most monitoring wells are intended to remain in place until the release is closed by SCDHEC and will require periodic sampling by ARM or another selected contractor.

X Property Access Granted

Property Access Denied

843-810-5073 Phone

cherrera@columbiahousing.org
Email

LuCinda J. Herrera
Printed Name

LuCinda J. Herrera
Signature

June 21, 2023
Date

Comments:
[Four horizontal lines for text entry]



WATER SUPPLY WELL SURVEY
& REQUEST TO SAMPLE

College Center
UST Permit #07584, 07777, & 12352
Taylor Street & Two Notch Road, Columbia, South Carolina

Subject: Housing Authority of the City of Columbia
1917 Harden Street
Columbia, SC 29204
2377 Washington Street & 1410 Lyon Street, Columbia, South Carolina
Richland County Tax Map #R11411-04-48 & R11411-04-49

ARM Environmental Services, Inc. (ARM) is currently completing an environmental assessment on behalf of the South Carolina Department of Health & Environmental Control (SCDHEC) to assess the extent of a petroleum release from the College Center site, underground storage tank (UST) permit #07584, 07777, & 12352. As part of this assessment, ARM is conducting a water supply well survey of properties within a certain radius of the UST system.

Please complete the questions below to the best of your ability and return in the enclosed envelope.

- 1) What is the source of drinking water for the subject property?
[X] Municipal Water [] Water Supply Well [] Other
2) Is there a water supply well on the subject property? [] Yes [X] No
3) What is the well typically used for? [] Drinking [] Irrigation [] Not in Use

ARM requests your permission to sample your well for petroleum compounds at no cost to you. A copy of the results will be provided.

[X] Property Access Granted

[] Property Access Denied

843-810-5073 Phone
cherrera@columbiahousing.org Email

LuCinda J. Herrera
Printed Name

LuCinda J. Herrera
Signature

June 21, 2023
Date



March 24, 2023

SUBJECT: Letter of Introduction
Assessment of Releases from Permitted Underground Storage Tank Facilities

Dear Property Owner:

A release of petroleum products has occurred from the underground storage tanks located at the facility identified in the attached letter. The tank owner/operator of the facility has elected to allow the South Carolina Department of Health and Environmental Control (DHEC) to procure the services of a site rehabilitation contractor on their behalf to investigate the extent and severity of the release. DHEC has entered into a contract with ARM Environmental Services, Inc. (ARM) to conduct all necessary assessment activities. DHEC will pay costs for all necessary assessment activities at no cost to you or a future landowner.

During the course of the assessment, ARM may need to access the highway right-of-way and your property to collect needed soil and groundwater samples to determine the extent of the problem and any potential risk to human health and the environment. Should access to your property be requested, please provide approval in a timely fashion so any problems can be quickly identified and cleanup, if required, can be started in a timely fashion.

All work will be conducted in a professional manner and every effort will be made to minimize any disturbance to your property and any inconvenience to you. ARM is expected to discuss with you the proposed locations of any sample collection points or monitoring wells before doing any work on or near your property. The location of the wells or sampling points can be moved as needed based on your requests. Screening points consist of pushing rods or auguring small holes into the ground, collecting a soil and sometimes a groundwater sample, and immediately filling in the hole. Monitoring wells are a small diameter hole bored or drilled into the ground to collect groundwater samples. The wells will consist of a 2-foot by 2-foot, or smaller concrete pad finished flush with the ground and a small diameter manhole cover similar to a water meter. As soon as the assessment and any corrective action activities are completed, the well will be filled in and the well pad removed from any grassed area with no permanent effect to your property. A copy of the assessment report will be mailed or if you prefer e-mailed to your attention upon completion of this work.

Your cooperation is greatly appreciated. If you have any questions, please e-mail me at reillycm@dhec.sc.gov. You can fax me at (803) 898-0673 or contact me at (803) 898-3807.

Sincerely,

Caitlin Reilly, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

APPENDIX K
SCDHEC CONTRACTOR CHECKLIST

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Is UST Owner/Operator name, address, & phone number provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Is name, address, & phone number of current property owner provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Has the facility history been summarized?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Has the regional geology and hydrogeology been described?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Are the receptor survey results provided as required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Has current use of the site and adjacent land been described?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Has the site-specific geology and hydrogeology been described?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Has the primary soil type been described?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Have field screening results been described?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Has a description of the soil sample collection and preservation been detailed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Has the field screening methodology and procedure been detailed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Has the monitoring well installation and development dates been provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Has the method of well development been detailed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Has justification been provided for the locations of the monitoring wells?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Has the groundwater sampling methodology been detailed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	Have the groundwater sampling dates and groundwater measurements been provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	Has the purging methodology been detailed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	If free-product is present, has the thickness been provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Does the report include a brief discussion of the assessment done and the results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Does the report include a brief discussion of the aquifer evaluation and results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the report include a brief discussion of the fate & transport models used?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Have recommendations for further action been provided and explained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
34	Has the current and historical laboratory data been provided in tabular format?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	Have the aquifer characteristics been provided and summarized on the appropriate form?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
37	Has the topographic map been provided with all required elements? (Figure 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	Has the site base map been provided with all required elements? (Figure 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	Has the site potentiometric map been provided? (Figure 5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
41	Have the geologic cross-sections been provided? (Figure 6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
43	Has the site survey been provided and include all necessary elements? (Appendix A)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45	Is the laboratory performing the analyses properly certified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46	Has the tax map been included with all necessary elements? (Appendix C)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
47	Have the soil boring/field screening logs been provided? (Appendix D)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
50	Have the disposal manifests been provided? (Appendix G)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
51	Has a copy of the local zoning regulations been provided? (Appendix H)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
52	Has all fate and transport modeling been provided? (Appendix I)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



dhec



**State Lead Option
Adjacent Property Access Agreement for
Site Rehabilitation**

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit #	#07584, #07777, #12352	
Property Name (if applicable):		
Property Address:	R 11411-02-07 (1410 N. millwood)	
Property Phone Number:	803 - 553 - 0897	
Is property within city limits? (check yes/no)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Name of nearest intersecting street/road/highway:	N. Millwood / Forest Dr	
Does public water/sewer utility service this facility?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <i>No Buildings</i>
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:		
Name: <i>No buildings</i>	Phone Number: - <i>No private</i>	
Is the property currently leased to someone?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
*If yes, notify them of the pending work scope, and please provide their name/contact number:		
Name: <i>N/A</i>	Phone Number: <i>N/A</i>	

Name of Property Owner (Print):	Team 1 Holding LLC	
Signature of Property Owner or authorized representative:	<i>Jared Jensen [Signature]</i>	3-29-24 Date
Affiliation (if applicable)		
Signature of Witness	<i>James [Signature]</i>	3/29/24 Date

Contact Info		
Phone Numbers:	Home: 803 - 553 - 0897	Cell: 803 - 553 - 0897
Email Address:	yodyeem@yahoo.com	



**State Lead Option
Adjacent Property Access Agreement for
Site Rehabilitation**

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R-11411-02-07

UST Permit #	
Property Name (if applicable):	Suddeth Automotive
Property Address:	1410 N. Millwood Ave. Columbia SC 29204
Property Phone Number:	803-553-0897
Is property within city limits? (check yes/no)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Name of nearest intersecting street/road/highway:	N. Millwood / Washington Street
Does public water/sewer utility service this facility?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name:	Phone Number:
Is the property currently leased to someone? <input checked="" type="radio"/> Yes <input type="radio"/> No	
*If yes, notify them of the pending work scope, and please provide their name/contact number:	
Name: Same Owner different	Phone Number: Company

Name of Property Owner (Print):	Team 7 Holding LLC	
Signature of Property Owner or authorized representative:	Jared Jensen	3-29-24 Date
Affiliation (if applicable)		
Signature of Witness		3/29/24 Date

Contact Info

Phone Numbers:	Home: 803-553-0897	Cell: 803-553-0897
Email Address:	yodyeem@yahoo.com	



**State Lead Option
Adjacent Property Access Agreement for
Site Rehabilitation**

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UST Permit #	
Property Name (if applicable):	
Property Address:	R. 11411-02-04 1401 Ontario
Property Phone Number:	803-553-0897
Is property within city limits? (check yes/no)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Name of nearest intersecting street/road/highway:	Ontario / Forest Dr
Does public water/sewer utility service this facility?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: At lot Lot	Phone Number: No private
Is the property currently leased to someone?	Yes No

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: N/A	Phone Number: N/A
-----------	-------------------

Name of Property Owner (Print):	Team 7 Holding LLC	
Signature of Property Owner or authorized representative:	Jared Jensen fw Pfw	3-29-24 Date
Affiliation (if applicable)		
Signature of Witness	<i>[Signature]</i>	3/29/24 Date

Contact Info

Phone Numbers:	Home: 803-553-0897	Cell: 803-553-0897
Email Address:	yodyeem@yahoo.com	



APR 24 2024

LAI LIN
516 CROOKED PINE CT
LEXINGTON SC 29073

Re: **Request for Property Access**
College Corner, 2367 Taylor St., Columbia, SC
UST Permit #07584
Release #1 reported January 30, 1991
Release #2 reported April 17, 1998
Richland County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling may be necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property at **2400 Forest Drive, Columbia, SC 29204** to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-7705, by fax at (803) 898-0673, or by email at wykeljm@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)



State Lead Option
Adjacent Property Access Agreement for
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UST Permit # 07584

Property Name (if applicable):

Property Address: 2400 Forest Drive, Columbia, SC 29204

Property Phone Number:

Is property within city limits? (check yes/no) Yes No

Name of nearest intersecting street/road/highway:

Does public water/sewer utility service this facility? Yes No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: **Phone Number:**

Is the property currently leased to someone? Yes No

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: **Phone Number:**

Name of Property Owner (Print):

Signature of Property Owner or authorized representative: **Date**

Affiliation (if applicable)

Signature of Witness **Date**

Contact Info

Phone Numbers: **Home:** **Cell:**

Email Address:



RECEIVED
APR 25 2024
UST DIVISION



TRANSMITTAL COVER SHEET

TO: **Matt Wykel, Hydrogeologist**

COMPANY / AGENCY: **UST Program / Bureau of Land and Waste Management**

FROM: **Paul Myers**

RE: **College Corner / Cloud's Chevron
UST Permit #07777, #07584, #12352
Site-Specific Work Plan & Cost Proposal
Monitoring Well Installation & Surface Water Assessment**

DATE: **May 23, 2023**

TRANSMITTAL VIA: **Standard US Mail** **Priority US Mail**
 Electronic Delivery **Hand Delivery**

COMMENTS:

Enclosed you will find the Site-Specific Work Plan and Assessment Component Cost Proposal for the activities requested at the site.

Upon your approval of this SSWP and cost proposal, ARM personnel will initiate the assessment.

Please do not hesitate to give me a call if you have any questions or if further information is required.

**Sincerely,
ARM Environmental Services, Inc.**

**Paul Myers
Staff Geologist**

RECEIVED



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

APR 25 2024

UST DIVISION



To: Matt Wykel (SCDHEC Project Manager)
From: Michael Faris (Contractor Project Manager)
Contractor: ARM Environmental Services, Inc. UST Contractor Certification Number: 4

Facility Name: Cloud's Chevron (#07777 / #12352) UST Permit #: College Corner (#07584)
Facility Address: Two Notch Road & Taylor Street, Columbia, SC
Responsible Party: Jack Lee & Alexander Lee / 3733 Greenbriar Drive, Columbia SC 2920 Phone: Acme Petroleum & Fuel Company
RP Address: Wallace Scott / 76 Whiteford Way, Lexington SC 29072 543 Cox Rd, Suite C, Gastonia, NC 28054
Property Owner (if different): Cloud's Chevron: Medical University Hospital Authority, 22 Westedge St, Charleston, SC 29403
Property Owner Address: College Corner: Fast Point Food Stores Inc., 2811 Reidville Rd, Suite 16, Spartanburg, SC 29301
Current Use of Property: Cloud's Chevron: Hospital parking lot // College Corner: Gas station & convenience store

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, Other, GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260D), Oxygenates (8260D), EDB (8011), PAH (8270E), Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron

Drinking Water Supply Wells:

- BTEXNMDCA (524.2), Oxygenates & Ethanol (8260D), Mercury (200.8 245.1 or 245.2), RCRA Metals (200.8), EDB (504.1)

Soil:

- BTEXNM, PAH, Lead, Oil & Grease (9071), RCRA Metals, TPH-DRO (3550B/8015B), TPH-GRO (5030B/8015B), Grain Size, TOC

Air:

- BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

1 Soil, Water Supply Wells, Air, Field Blank, Monitoring Wells, 5 Surface Water, 1 Duplicate, 1 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
of shallow points proposed: 1 Estimated Footage: 5 feet per point
of deep points proposed: Estimated Footage: feet per point
Field Screening Methodology: A shallow soil sample will be collected from the stream bed, as marked on the map

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
of shallow wells: 14 Estimated Footage: 35 feet per point
of deep wells: 1 Estimated Footage: 45 feet per point
of recovery wells: Estimated Footage: feet per point
Comments, if warranted: Well depth is expected to be highly variable based on proximity to surface water bodies. The final well footage will be adjusted such that shallow wells are completed to first water.

UST Permit #: Cloud's Chevron (#07777 / #12352) Facility Name: College Corner (#07584)

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Field Work Completion: 100
Report Submittal: 120 # of Copies Provided to Property Owners: 15

Aquifer Characterization
Pump Test: Slug Test: (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal
Soil: 15 Tons Purge Water: 100 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.
2 equipment mobilizations are requested - if property access is achieved and lithology is favorable, work should be completed in 2-3 weeks. If scope of work takes 3 weeks, an additional equipment mobilization will be requested.
Only the surface water and stream sediment samples are currently proposed to be collected under this cost agreement. Future sampling events would be completed by ARM or by the Department's selected sampling contractor under a separate cover.
Per the request of the SC DHEC project manager, a comprehensive site survey of the entire project area has been proposed.

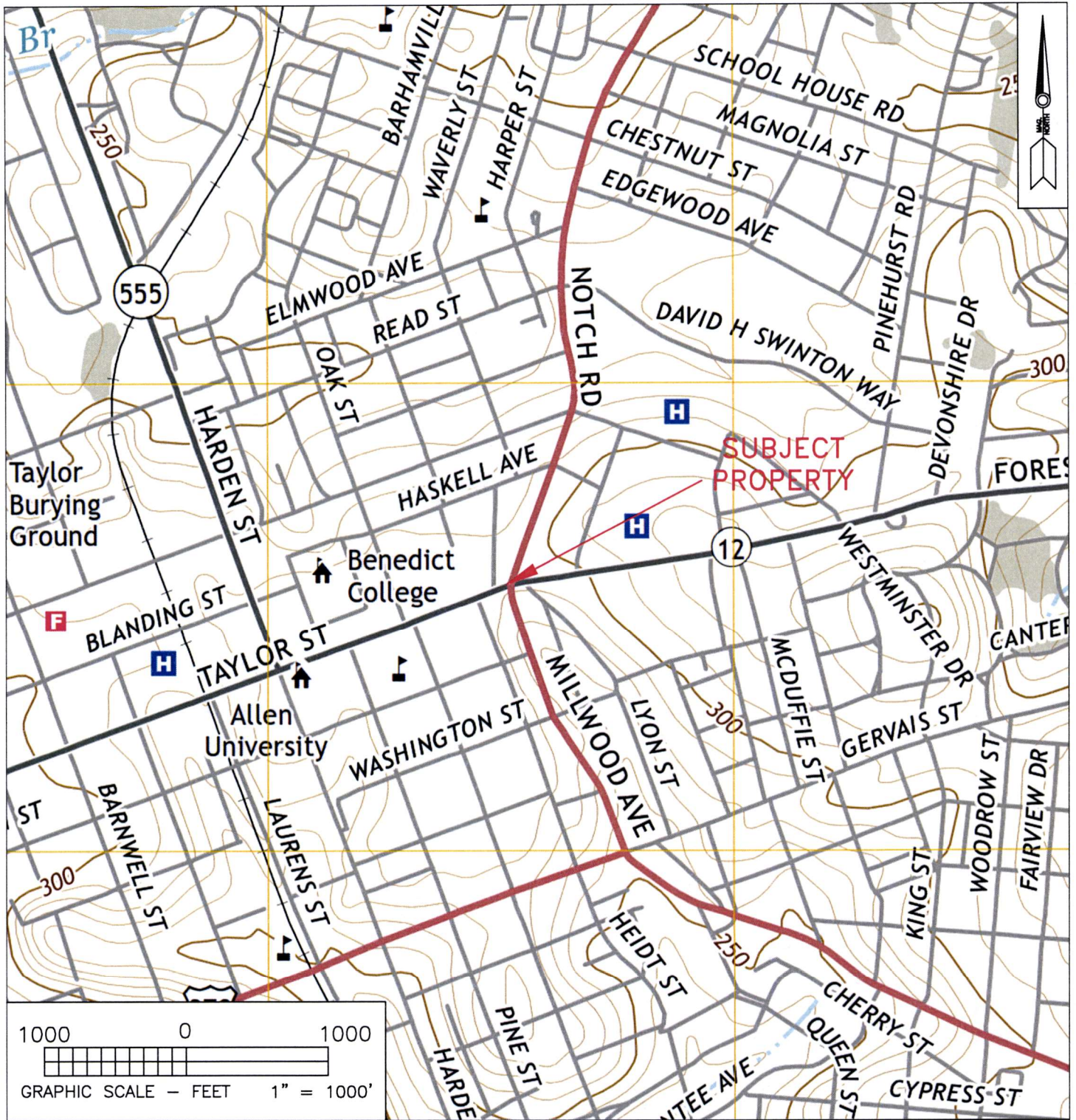
Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

XXX Other variations from ACQAP. Please describe below.
ARM understands this scope of work is intended to provide data to the Department for future solicitation of Active Corrective Action. The requested scope of work is intended to provide delineation of the contaminant plume in the direction of identified surface water receptors and to identify potential preferential pathways that may be driving the movement of contaminants. This proposed scope of work is not intended to fully delineate the contaminant plume in all directions.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
North Arrow Proposed monitoring well locations
Location of property lines Legend with facility name and address, UST permit number, and bar scale
Location of buildings Streets or highways (indicate names and numbers)
Previous soil sampling locations Location of all present and former ASTs and USTs
Previous monitoring well locations Location of all potential receptors
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



PROJECT:
 ADDITIONAL ASSESSMENT
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

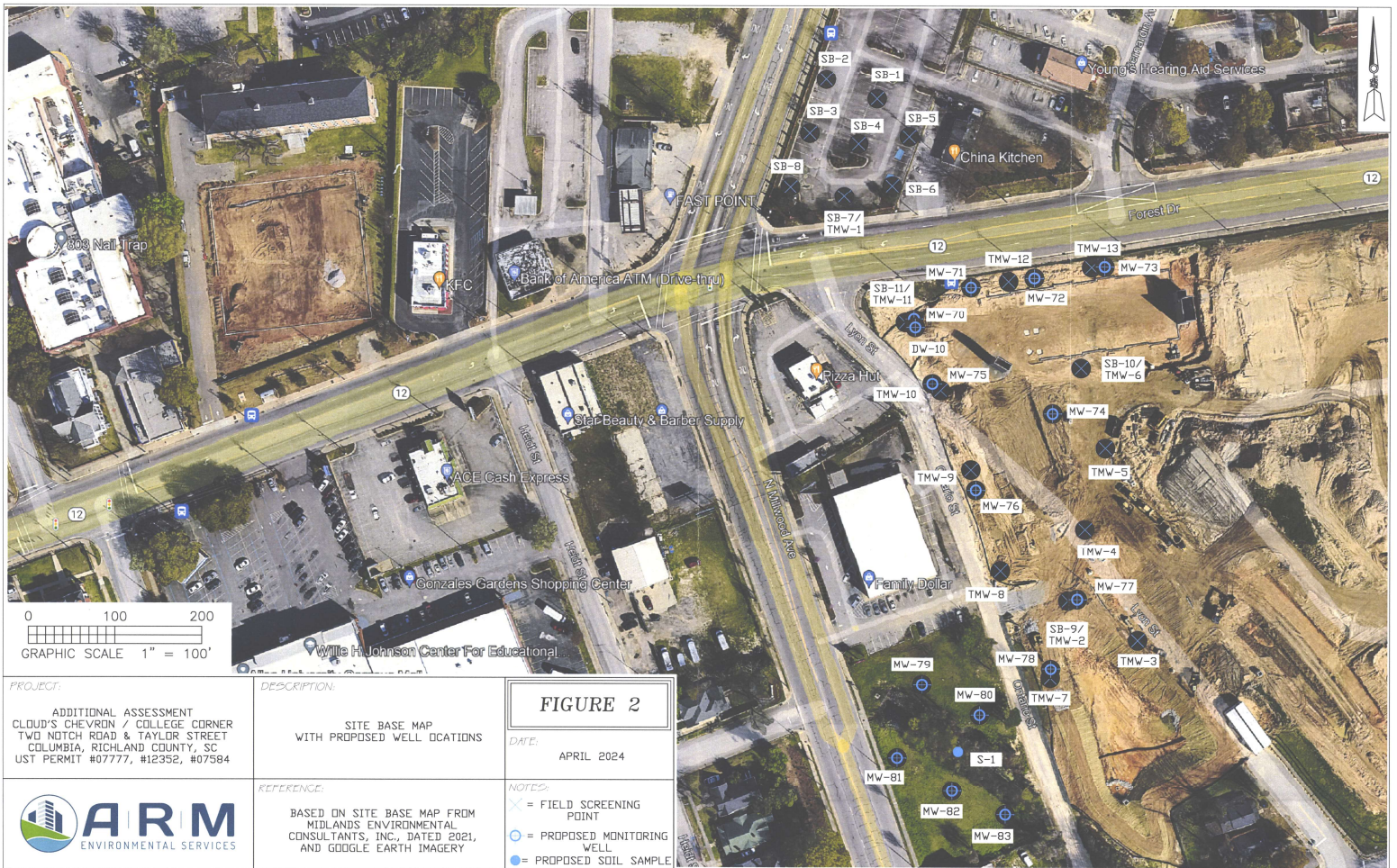
DESCRIPTION:
 SITE LOCATION MAP

FIGURE 1
 DATE:
 APRIL 2024



REFERENCE:
 U.S.G.S. TOPOGRAPHIC MAP
 (7.5 MINUTE SERIES)
 COLUMBIA NORTH - 2020
 SOUTH CAROLINA QUADRANGLE

LEGEND:



PROJECT:
 ADDITIONAL ASSESSMENT
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

DESCRIPTION:
 SITE BASE MAP
 WITH PROPOSED WELL LOCATIONS

FIGURE 2
 DATE:
 APRIL 2024



REFERENCE:
 BASED ON SITE BASE MAP FROM
 MIDLANDS ENVIRONMENTAL
 CONSULTANTS, INC., DATED 2021,
 AND GOOGLE EARTH IMAGERY

NOTES:
 X = FIELD SCREENING POINT
 O = PROPOSED MONITORING WELL
 ● = PROPOSED SOIL SAMPLE



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
PO#

Facility Name: College Corner / Cloud's Chevron

UST Permit #: 07777, 12352, 07584 Cost Agreement #: Pending

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. Plan Preparation					
1.1 Site-specific Work Plan	1	each	\$300.00		\$300.00
2.1 Tax Map		each	\$100.00		\$0.00
B. Receptor Survey *					
		each	\$750.00		\$0.00
C. Survey (500 X 500 feet)					
1.1 Comprehensive Survey	5	each	\$1,400.00		\$7,000.00
5. Ground Penetrating Radar Survey (GPR)	1	each	\$3,600.00		\$3,600.00
D. Mobilization/Demobilization					
1.1 Equipment Mobilization	2	each	\$1,350.00		\$2,700.00
2.1 Personnel Mobilization	3	each	\$600.00		\$1,800.00
3.1 Adverse Terrain Vehicle		each	\$1,275.00		\$0.00
E.. Soil Borings (hand auger)*					
		per foot	\$7.00		\$0.00
F. Soil Borings/Field Screening (requiring equipment, push technology, etc) or Field Screening (including sampling and analysis)					
1.1 Standard Soil Boring/Field Screening		per foot	\$20.00		\$0.00
2.1 Fractured Rock Screening		per foot	\$28.00		\$0.00
I. Well Installation (per foot includes costs associated with soil screening, lithology, development, pad and ID plate)					
1.1 Shallow monitoring wells installed using a hand auger		per foot	\$26.00		\$0.00
2.A Single-cased 2" Diameter Monitoring Well (0-50 ft)	525	per foot	\$46.50		\$24,412.50
2.1. Single-cased 2" Diameter Monitoring Well (>50 ft)		per foot	\$49.00		\$0.00
3.1 Telescoping		per foot	\$62.00		\$0.00
4.1 Rock Drilling		per foot	\$75.00		\$0.00
5.1 2" Rock Coring and Retrieval		per foot	\$48.00		\$0.00
6.1 Multi-sampling ports/screens		per foot	\$50.00		\$0.00
7.1 Recovery Well (4" diameter well)		each	\$55.00		\$0.00
9.1 Rotosonic Drilling (2" diameter well)		each	\$65.00		\$0.00
J. Sample Collection / Gauging Depth to Product or Groundwater					
1.1 Volumetric Groundwater Purge		per well	\$72.00		\$0.00
2.1 Air or Soil Vapor Sample		per receptor	\$125.00		\$0.00
3.1 Water Supply Sample		per well/receptor	\$40.00		\$0.00
4.1. HydraSleeve			\$65.00		\$0.00
4.2A No purge Groundwater Sample / Surface Water Sample	6	sample	\$36.00		\$216.00
5.1 Gauging Well Only		per well	\$10.00		\$0.00
6.1 Sample Below Product		sample	\$38.00		\$0.00
7.1 Passive Diffusion Bag		sample	\$35.00		\$0.00
8.1 Field Duplicates (MWs & WSWs) and Field Blank	1	each	\$36.00		\$36.00
9.1 Groundwater(Low-Flow Purge)		per well/receptor	\$118.00		\$0.00
10.1 Equipment Blank		each	\$25.00		\$0.00
11. Sample Product		sample	\$50.00		\$0.00

Facility Name: College Corner / Cloud's Chevron					
UST Permit #: 07777, 12352, 07584		Cost Agreement #: Pending			
K. Laboratory Analyses - Groundwater					
1.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (8260D)	8	sample	\$148.00		\$1,184.00
2.1 Dissolved Lead (6010D or 6020B)		sample	\$25.00		\$0.00
3.1 BTEXN, MTBE Including Oxygenates and 1,2 DCA (8260D) RUSH		sample	\$181.00		\$0.00
4.1 Trimethyl, Butyl, and Isopropyl Benzenes (8260D)		sample	\$34.00		\$0.00
5.1 Polynuclear Aromatic Hydrocarbons (PAHs) (8070E)		sample	\$82.00		\$0.00
6.1 Total Lead (6010D or 6020B)		sample	\$27.00		\$0.00
7.1 EDB by 8011		sample	\$60.00		\$0.00
8.1 EDB by 8011 RUSH		sample	\$82.00		\$0.00
9.1 RCRA 8 Metals		sample	\$80.00		\$0.00
10.1 TPH - Oil and Grease (9070)		per sample	\$54.00		\$0.00
11.1 pH (Lab)		per sample	\$9.00		\$0.00
12.1 BOD		per sample	\$28.00		\$0.00
13.1 Ethanol - (8015)		per sample	\$22.00		\$0.00
K. Laboratory Analyses - Drinking Water (Water Supply Wells)					
14.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (524.2)		sample	\$162.00		\$0.00
15.1 8-Oxygenates (8260D)		sample	\$110.00		\$0.00
16.1 EDB (504.1)		sample	\$98.00		\$0.00
17.1 RCRA 8 Metals		sample	\$125.00		\$0.00
K. Laboratory Analyses-Soil					
18.1 BTEXN (8260D)	1	sample	\$82.00		\$82.00
19.1 PAH's (8270E)		sample	\$82.00		\$0.00
20.1 RCRA 8 Metals		sample	\$80.00		\$0.00
21.1 TPH - DRO (3550C/8015C)		sample	\$50.00		\$0.00
22.1 TPH - GRO (5035B/8015C)		sample	\$50.00		\$0.00
23.1 Grain size/Hydrometer		sample	\$154.00		\$0.00
24.1 Total Organic Carbon		sample	\$45.00		\$0.00
K. Laboratory Analyses - Air					
25.1 BTEXN (TO-15)		sample	\$365.00		\$0.00
K. Hydrocarbon Fuel Identification					
27. C3 - C44 Whole Oil (ASTM D3328)		sample	\$490.00		\$0.00
28. Fuel Oxygenates (1624 Mod)		sample	\$463.00		\$0.00
29. ALKYL Leads, EDB MMT (8080)		sample	\$463.00		\$0.00
30. C8 - C40 Full Scan (ASTM 5739)		sample	\$695.00		\$0.00
31. Simulated Distillation (ASTM 2887)		sample	\$463.00		\$0.00
32. Parent & Alk. PAH Com. (8270 SIM)		sample	\$825.00		\$0.00
33. C3 - C10 Piano (8260 Mod)		sample	\$695.00		\$0.00
34. C10+ Alkane Fingerprint (ASTM 3328)		sample	\$695.00		\$0.00
35. Expert Data Interpretation & Report		sample	\$720.00		\$0.00
L. Aquifer Characterization*					
2.1 Slug Test		per test	\$310.00		\$0.00
3.1 Fractured Rock		per test	\$190.00		\$0.00
M. Free Product Recovery Rate Test*					
		each	\$100.00		\$0.00
P. Subsequent Survey*					
		each	\$300.00		\$0.00

Facility Name: College Corner / Cloud's Chevron					
UST Permit #: 07777, 12352, 07584		Cost Agreement #: Pending			
Q. Disposal					
1. Wastewater (per gallon)	100	gallon	\$0.66		\$66.00
2. Free Product (per gallon)		gallon	\$0.68		\$0.00
3. Soil Treatment/Disposal (per ton)	15	ton	\$82.00		\$1,230.00
4. Drilling fluids (per gallon)		gallon	\$0.70		\$0.00
Y. Well Repair					
1.1 Additional Copies of Report		each	\$70.00		\$0.00
5.1 Replace well cover bolts		each	\$5.00		\$0.00
6.1 Replace locking well cap & lock		each	\$23.00		\$0.00
10.1 Replace missing/illegible well ID plate		each	\$25.00		\$0.00
S. Report Preparation/Project Coordination		15%	percent	\$42,626.50	\$6,393.98
TOTAL					\$49,020.48

Tier II Contract 03-2023



CERTIFIED MAIL
9214 8969 0099 9790 1546 4323 21

MAY 13 2024

JOHN A HAMILTON JR
FD COLUMBIA SC LLC
495 HWY 174
EDISTO ISLAND SC 29438

Re: **Request for Property Access**
College Corner, 2367 Taylor St., Columbia, SC
UST Permit #07584
Release reported January 30, 1991
Richland County

Dear Mr. Hamilton:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility. Your property at 1500 N. Millwood, Columbia, SC is in close proximity to the above referenced release site.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling are necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-7705, by fax at (803) 898-0673, or by email at wykeljm@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)



State Lead Option
Adjacent Property Access Agreement for
Site Rehabilitation

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UST Permit #	07584
Property Name (if applicable):	Family Dollar
Property Address:	1500 N. Millwood Ave., Columbia, SC 29204
Property Phone Number:	
Is property within city limits? (check yes/no)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Name of nearest intersecting street/road/highway:	
Does public water/sewer utility service this facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:	
Name:	Phone Number:
Is the property currently leased to someone?	<input type="checkbox"/> Yes <input type="checkbox"/> No
*If yes, notify them of the pending work scope, and please provide their name/contact number:	
Name:	Phone Number:
Name of Property Owner (Print):	
Signature of Property Owner or authorized representative:	Date
Affiliation (if applicable)	
Signature of Witness	Date
Contact Info	
Phone Numbers:	Home: Cell:
Email Address:	

Math



**State Lead Option
Adjacent Property Access Agreement for
Site Rehabilitation**

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

RECEIVED

UST Permit # 07777,07584,12352

Property Name (if applicable): Multiple Benedict College parcels JUN 24 2024

Property Address: Properties listed on attached page. UST DIVISION

Property Phone Number:

Is property within city limits? (check yes/no) Yes No

Name of nearest intersecting street/road/highway:

Does public water/sewer utility service this facility? Yes No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: Phone Number:

Is the property currently leased to someone? Yes No

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: Phone Number:

Name of Property Owner (Print): Benedict College

Signature of Property Owner or authorized representative: *Sharon D. Bell* 06/18/2024 Date

Affiliation (if applicable): Vice President of Finance & Operations/ CFO

Signature of Witness: *[Signature]* 06/18/2024 Date

Contact Info

Phone Numbers: Home: 803-705-4730 Cell: 731-394-6312

Email Address: sharron.burnett@benedict.edu

Benedict College Properties

	Address	Parcel Number
1	1600 Harden	R11412-10-14
2	1613 Waverly	R11408-10-30
3	1616 Oak	R11407-06-01
4	1604 Oak	R11407-06-03
5	2305 Taylor	R11407-06-02
6	2412 Haskell	R11408-10-29
7	1601 Heidt	R11408-10-11
8	1613 Heidt	R11408-10-10
9	1600 Harden	R11408-10-09



Honorable Diedra Wilson Hightower
Richland County Magistrate
118-A McNulty Street
Blythewood, SC 29016

Re: Access to Family Dollar
1500 North Millwood Avenue, Columbia, SC
Richland County GIS System Map Number R11411-02-02

Dear Honorable Judge Hightower:

The South Carolina Department of Health and Environmental Control (Department) requests your consideration in the matter of an Inspection Warrant pursuant to S.C. Code Ann. § 48-1-50(24) for the collection of soil and groundwater samples at the referenced facility. Section 48-1-50(24) of the Pollution Control Act specifically provides magistrate judges with the authority to issue inspection warrants.

The property owned by Fast Point Food Stores, Inc. at nearby 2367 Taylor Street has two prior releases from underground storage tanks that were subsequently removed. To further assess the release, it is necessary for Department staff from the Underground Storage Tank Management Division and/or its contractor to access 1500 North Millwood Avenue in order to install groundwater monitoring wells and retrieve samples from wells.

The Department has exhausted every option to obtain access to the property and requests an Inspection Warrant for the purpose of collecting environmental samples to determine current conditions.

Please find enclosed an application for an Inspection Warrant and tax map information.

I look forward to discussing the site with you and appreciate your time and assistance. Should you have any questions regarding this correspondence, you may contact me at (803) 898-7705 or wykeljm@dhec.sc.gov.

Sincerely,

James M. Wykel, Project Manager
Hydrogeologist III
Underground Storage Tank Management Division
Bureau of Land and Waste Management

STATE OF SOUTH CAROLINA

COUNTY OF RICHLAND

SWORN APPLICATION FOR INSPECTION WARRANT
PURSUANT TO S.C. CODE ANN. SECTION 48-1-50

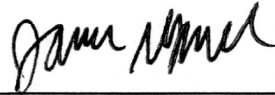
TO: THE HONORABLE JUDGE DIEDRA WILSON HIGHTOWER
RICHLAND COUNTY MAGISTRATE

BLYTHEWOOD MAGISTRATE
2024 JUN 27 PM2:19

James M. Wykel, a Project Manager at the South Carolina Department of Health and Environmental Control (Department), hereby applies for an inspection warrant, pursuant to S.C. Code Ann. § 48-1-50(24) of the Pollution Control Act to conduct an inspection and response action including environmental sampling at the following establishment, premises, or component thereof:

1. S.C. Code Ann. § 48-1-50(24) of the Pollution Control Act was promulgated to authorize the Department to protect the public's health and welfare, as well as the environment, and to investigate on behalf of that interest, potential pollution of the environment of the State.
2. Section 48-1-50(24) of the Pollution Control Act specifically provides this Court with the authority to issue an inspection warrant. In the event the Department cannot obtain consent to enter property "for the purpose of inspecting and investigating conditions relating to pollution or the possible pollution of the environment of the State . . . the Department is empowered to and shall obtain from the magistrate from the jurisdiction in which such property, premise or place is located, a warrant to enter and inspect any such property, premise or place prior to entry and inspection. The magistrate of such jurisdiction is empowered to issue such warrants upon a proper showing of the needs for such entry and inspection."
3. This inspection will be undertaken as part of an inspection program, authorized by Statute and Regulations issued thereunder, designed to protect the public's health and welfare or the environment and investigate on behalf of that interest potential pollution of the environment of the state of South Carolina.
4. A nearby property, located at 2357 Taylor Street, has two prior releases from underground storage tanks that were subsequently removed. To further assess the releases, it is necessary for Department staff to assess nearby properties.
4. The inspection and response action may be conducted at any time. The Department Officer's credentials will be presented if the owner/operator is present. These activities will begin as soon as practical after the issuance of this warrant and shall be executed and returned to the above named judicial officer within ten (10) days of the issuance date. Site activities shall be completed with reasonable promptness.
5. Site activities will extend to the establishment, premises, appurtenances. Photographs and/or video recording of the same may be taken as deemed necessary for a reasonable inspection. Response actions may include, but not be limited to, collecting environmental samples and installing additional groundwater monitoring wells.
6. The establishment or site is known to the Department as "Family Dollar" and is located at 1500 North Millwood Avenue, Columbia, SC, in Richland County. The site is comprised of one parcel identified by the Richland County GIS System as Map Number R11411-02-02.

The Project Manager hereinbefore named is authorized to inspect and conduct environmental sampling at the designated premises, and may be accompanied by one or more duly authorized employees of the Department and/or its contractor, as well as other law enforcement officers and any equipment deemed necessary to complete the activities. A return will be made to the Court if desired upon completion of the inspection, or no later than ten (10) days after the date of the Inspection Warrant.



James M. Wykel, Project Manager
Underground Storage Tank Management Division
Bureau of Land and Waste Management
SC Department of Health and Environmental Control

Sworn to and subscribed before me
this 27 day of June 2024



NOTARY PUBLIC FOR SOUTH CAROLINA

My commission expires: 9/20/27

SHERRY TAYLOR
Notary Public
State of South Carolina
My Commission Expires Sept. 20, 2027

STATE OF SOUTH CAROLINA

COUNTY OF RICHLAND

INSPECTION WARRANT PURSUANT TO S.C. CODE ANN. SECTION 48-1-50(24)

TO ANY DULY AUTHORIZED ENVIRONMENTAL CONTROL OFFICER OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL:

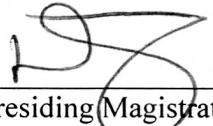
BLYTHEWOOD MAGISTRATE
2024 JUN 27 PM 2:18

It appears from the attached sworn application that there are reasonable grounds to conduct an administrative inspection pursuant to S.C. Code Ann. § 48-1-50(24) at the following described premises:

**Family Dollar located at:
1500 North Millwood Avenue, Columbia, South Carolina
County of Richland
Tax Map # R114711-02-02**

NOW AND THEREFORE, you are hereby authorized to conduct an administrative inspection at the subject premises and to collect and retain such information as necessary for such an inspection. The activities contemplated by this inspection include sampling soil and monitoring wells to determine the current conditions and installing additional monitoring wells. This inspection warrant shall expire ninety (90) days from the date of issuance. The Department is authorized to access the site and necessary through the course of this warrant's duration. A copy of the warrant shall be displayed at the entrance of the property.

A written report of activities performed pursuant to this warrant shall be provided to the Richland County Magistrate whose name is affixed below.


Presiding Magistrate: DEORA W. HIGHTOWER

This 27th day of June, 2024
Columbia, South Carolina



Honorable Diedra Wilson Hightower
Richland County Magistrate
118-A McNulty Street
Blythewood, SC 29016

Re: Access to Pizza Hut
2400 Forest Drive, Columbia, SC
Richland County GIS System Map Number R11411-02-01

Dear Honorable Judge Hightower:

The South Carolina Department of Health and Environmental Control (Department) requests your consideration in the matter of an Inspection Warrant pursuant to S.C. Code Ann. § 48-1-50(24) for the collection of soil and groundwater samples at the referenced facility. Section 48-1-50(24) of the Pollution Control Act specifically provides magistrate judges with the authority to issue inspection warrants.

The property owned by Fast Point Food Stores, Inc. at nearby 2367 Taylor Street has two prior releases from underground storage tanks that were subsequently removed. To further assess the release, it is necessary for Department staff from the Underground Storage Tank Management Division and/or its contractor to access 2400 Forest Drive in order to install groundwater monitoring wells and retrieve samples from those wells.

The Department has exhausted every option to obtain access to the property and requests an Inspection Warrant for the purpose of collecting environmental samples to determine current conditions.

Please find enclosed an application for an Inspection Warrant and tax map information.

I look forward to discussing the site with you and appreciate your time and assistance. Should you have any questions regarding this correspondence, you may contact me at (803) 898-7705 or wykeljm@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "James M. Wykel".

James M. Wykel, Project Manager
Hydrogeologist III
Underground Storage Tank Management Division
Bureau of Land and Waste Management

STATE OF SOUTH CAROLINA

COUNTY OF RICHLAND

**SWORN APPLICATION FOR INSPECTION WARRANT
PURSUANT TO S.C. CODE ANN. SECTION 48-1-50**

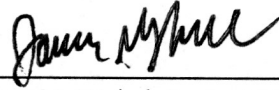
**TO: THE HONORABLE JUDGE DIEDRA WILSON HIGHTOWER
RICHLAND COUNTY MAGISTRATE**

BLYTHEWOOD MAGISTRATE
2024 JUN 27 PM 2:19

James M. Wykel, a Project Manager at the South Carolina Department of Health and Environmental Control (Department), hereby applies for an inspection warrant, pursuant to S.C. Code Ann. § 48-1-50(24) of the Pollution Control Act to conduct an inspection and response action including environmental sampling at the following establishment, premises, or component thereof:

1. S.C. Code Ann. § 48-1-50(24) of the Pollution Control Act was promulgated to authorize the Department to protect the public's health and welfare, as well as the environment, and to investigate on behalf of that interest, potential pollution of the environment of the State.
2. Section 48-1-50(24) of the Pollution Control Act specifically provides this Court with the authority to issue an inspection warrant. In the event the Department cannot obtain consent to enter property "for the purpose of inspecting and investigating conditions relating to pollution or the possible pollution of the environment of the State . . . the Department is empowered to and shall obtain from the magistrate from the jurisdiction in which such property, premise or place is located, a warrant to enter and inspect any such property, premise or place prior to entry and inspection. The magistrate of such jurisdiction is empowered to issue such warrants upon a proper showing of the needs for such entry and inspection."
3. This inspection will be undertaken as part of an inspection program, authorized by Statute and Regulations issued thereunder, designed to protect the public's health and welfare or the environment and investigate on behalf of that interest potential pollution of the environment of the state of South Carolina.
4. A nearby property, located at 2357 Taylor Street, has two prior releases from underground storage tanks that were subsequently removed. To further assess the releases, it is necessary for Department staff to assess nearby properties.
4. The inspection and response action may be conducted at any time. The Department Officer's credentials will be presented if the owner/operator is present. These activities will begin as soon as practical after the issuance of this warrant and shall be executed and returned to the above named judicial officer within ten (10) days of the issuance date. Site activities shall be completed with reasonable promptness.
5. Site activities will extend to the establishment, premises, appurtenances. Photographs and/or video recording of the same may be taken as deemed necessary for a reasonable inspection. Response actions may include, but not be limited to, collecting environmental samples and installing additional groundwater monitoring wells.
6. The establishment or site is known to the Department as "Pizza Hut" and is located at 2400 Forest Drive, Columbia, SC, in Richland County. The site is comprised of one parcel identified by the Richland County GIS System as Map Number R11411-02-01.

The Project Manager hereinbefore named is authorized to inspect and conduct environmental sampling at the designated premises, and may be accompanied by one or more authorized employees of the Department and/or its contractor, as well as other law enforcement officers and any equipment deemed necessary to complete the activities. A return will be made to the Court if desired upon completion of the inspection, or no later than ten (10) days after the date of the Inspection Warrant.



James M. Wykel, Project Manager
Underground Storage Tank Management Division
Bureau of Land and Waste Management
SC Department of Health and Environmental Control

Sworn to and subscribed before me
this 27 day of June 2024



NOTARY PUBLIC FOR SOUTH CAROLINA

My commission expires: 9/20/27

SHERRY TAYLOR
Notary Public
State of South Carolina
My Commission Expires Sept. 20, 2027

STATE OF SOUTH CAROLINA

COUNTY OF RICHLAND

INSPECTION WARRANT PURSUANT TO S.C. CODE ANN. SECTION 48-1-50(24)

TO ANY DULY AUTHORIZED ENVIRONMENTAL CONTROL OFFICER OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL:

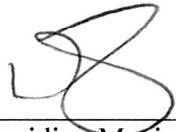
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It appears from the attached sworn application that there are reasonable grounds to conduct an administrative inspection pursuant to S.C. Code Ann. § 48-1-50(24) at the following described premises:

**Pizza Hut located at:
2400 Forest Drive, Columbia, South Carolina
County of Richland
Tax Map # R114711-02-01**

NOW AND THEREFORE, you are hereby authorized to conduct an administrative inspection at the subject premises and to collect and retain such information as necessary for such an inspection. The activities contemplated by this inspection include sampling soil and monitoring wells to determine the current conditions and installing additional wells. This inspection warrant shall expire ninety (90) days from the date of issuance. The Department is authorized to access the site and necessary through the course of this warrant's duration. A copy of the warrant shall be displayed at the entrance of the property.

A written report of activities performed pursuant to this warrant shall be provided to the Richland County Magistrate whose name is affixed below.



Presiding Magistrate : DORELA W. HIGHTOWER

This 27th day of June, 2024
Columbia, South Carolina



June 25, 2024

Paula Love, Vice President of Fiscal Affairs
Allen University
1530 Harden Street
Columbia, South Carolina 29204

Re: Request for Access

Ms. Love,

You may recall that I sent you a letter dated May 3, 2024 requesting access to certain parcels of Allen University property. The South Carolina Department of Health and Environmental Control¹ (Department) is seeking to gain access to five (5) parcels of Allen University property. The property owned by Fast Point Food Stores, Inc. at 2367 Taylor Street has two prior releases from underground storage tanks that were subsequently removed. To further assess the releases, it is necessary for Department staff from the Underground Storage Tank Management Division and/or its contractor to access Allen University property in order to install groundwater monitoring wells and retrieve samples from those wells. The well installation and sampling will be at no cost to Allen University.

As such, I am re-sending the Property Access Agreement for Site Rehabilitation. Please complete and return to the project manager, Matt Wykel, within seven (7) days of the date of this letter. If you have specific questions about the scope and purpose of the requested access, please contact Matt at 803-898-7705 or wykeljm@dhec.sc.gov. I am also available if you have any questions or concerns: 803-898-1950 or ratigakc@dhec.sc.gov.

Sincerely,

Karen C. Ratigan
Assistant General Counsel

enc: Letter dated 05-03-24
Property Access Agreement for Site Rehabilitation

cc: Matt Wykel, DHEC (by email)

¹ The environmental programs at the South Carolina Department of Health and Environmental Control will become the South Carolina Department of Environmental Services, effective July 1, 2024.



**State Lead Option
Adjacent Property Access Agreement for
Site Rehabilitation**

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit #	07777,07584,12352	
Property Name (if applicable):	Multiple Allen University parcels	
Property Address:	Properties listed on attached page.	
Property Phone Number:		
Is property within city limits? (check yes/no)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Name of nearest intersecting street/road/highway:		
Does public water/sewer utility service this facility?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:		
Name:	Phone Number:	
Is the property currently leased to someone?	Yes	No
*If yes, notify them of the pending work scope, and please provide their name/contact number:		
Name:	Phone Number:	
Name of Property Owner (Print):		
Signature of Property Owner or authorized representative:		Date
Affiliation (if applicable)		
Signature of Witness		Date
Contact Info		
Phone Numbers:	Home:	Cell:
Email Address:		

Allen University Properties

	Address	Parcel Number
1	1512 Heidt	R1141-01-03
2	2368 Taylor	R1141-01-02
3	2315 Taylor	R11408-10-02
4	1530 Harden	R11407-07-03A
5	2300 Taylor	R11407-07-01



May 3, 2024

Paula Love, Vice President of Fiscal Affairs
Allen University
1530 Harden Street
Columbia, South Carolina 29204

Re: Request for Access

Ms. Love,

The South Carolina Department of Health and Environmental Control (Department) is seeking to gain access to five (5) parcels of Allen University property. The property owned by Fast Point Food Stores, Inc. at 2367 Taylor Street has two prior releases from underground storage tanks that were subsequently removed. To further assess the releases, it is necessary for Department staff from the Underground Storage Tank Management Division and/or its contractor to access Allen University property in order to install groundwater monitoring wells and retrieve samples from those wells. The well installation and sampling will be at no cost to Allen University.

Please complete and return the enclosed Property Access Agreement for Site Rehabilitation to me within fifteen (15) days of the date of this letter. If you have specific questions about the scope and purpose of the requested access, please contact the project manager: Matt Wykel at 803-898-7705 or wykeljm@dhec.sc.gov. I am also available if you have any questions or concerns: 803-898-1950 or ratigakc@dhec.sc.gov.

Sincerely,

Karen C. Ratigan
Assistant General Counsel

enc: Property Access Agreement for Site Rehabilitation

cc: Matt Wykel, DHEC (by email)



RECEIVED

JUL 22 2024

UST DIVISION



TRANSMITTAL COVER SHEET

TO: **Jame Wykel, Hydrogeologist**

FROM: **Paul Myers**

RE: **College Corner / Clouds Chevron
UST Permit #07584, #07777, #12352
ARM #33-3010.3-24
Site Specific Work Plan – Field Screening**

DATE: **July 17, 2024**

ENCLOSED: **One Copy of the Site-Specific Work Plan**

TRANSMITTAL VIA: **Standard US Mail** **Priority US Mail**
 Electronic Submission **Hand Delivery**

COMMENTS:

Enclosed you will find a Site-Specific Work Plan for the activities requested at the site.

Upon your approval of the Work Plan, ARM personnel will initiate the assessment.

Please do not hesitate to give me a call if you have any questions or if further information is required.

**Sincerely,
ARM Environmental Services, Inc.**

A handwritten signature in cursive script that reads 'Paul Myers'.

**Paul Myers
Staff Geologist**

RECEIVED



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

JUL 22 2024

UST DIVISION

To: Matt Wykel (SCDHEC Project Manager)
From: Paul Myers (Contractor Project Manager)
Contractor: ARM Environmental Services, Inc. UST Contractor Certification Number: 4



Facility Name: Cloud's Chevron (#07777 / #12352) UST Permit #: College Corner (#07584)
Facility Address: Two Notch Road & Taylor Street, Columbia, SC
Responsible Party: Jack Lee & Alexander Lee / 3733 Greenbriar Drive, Columbia SC 2920 Phone: Acme Petroleum & Fuel Company
RP Address: Wallace Scott / 76 Whiteford Way, Lexington SC 29072 543 Cox Rd, Suite C, Gastonia, NC 28054
Property Owner (if different): Cloud's Chevron: Medical University Hospital Authority, 22 Westedge St, Charleston, SC 29403
Property Owner Address: College Corner: Fast Point Food Stores Inc., 2811 Reidville Rd, Suite 16, Spartanburg, SC 29301
Current Use of Property: Cloud's Chevron: Hospital parking lot // College Corner: Gas station & convenience store

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, GAC, Other Field screening

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

3 Soil, Water Supply Wells, Air, Field Blank, Monitoring Wells, Surface Water, Duplicate, Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
of shallow points proposed: 4 TMWs on map Estimated Footage: 15 to 30 ft feet per point
of deep points proposed: 10 soil cores on map Estimated Footage: 30 feet per point
Field Screening Methodology: Direct push TMWs. Continuous core soil samples. Proposed scope is based on a map provided by Department.

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
of shallow wells: Estimated Footage: feet per point
of deep wells: Estimated Footage: feet per point
of recovery wells: Estimated Footage: feet per point
Comments, if warranted:

UST Permit #: Cloud's Chevron (#07777 / #12352) Facility Name: College Corner (#07584)

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 20 Field Work Completion: 40

Report Submittal: 120 # of Copies Provided to Property Owners: 3

Aquifer Characterization

Pump Test: Slug Test: (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: 1.0 Tons Purge Water: 50.0 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

1 equipment mobilizations is requested - if lithology is favorable, work should be completed in 2-3 days

2 personnel mobilizations are requested for management of continuous core samples (PID screening) and collection of groundwater samples

An additional 100 feet of field screening are requested to expand scope if needed.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
North Arrow Proposed monitoring well locations
Location of property lines Legend with facility name and address, UST permit number, and bar scale
Location of buildings Streets or highways (indicate names and numbers)
Previous soil sampling locations Location of all present and former ASTs and USTs
Previous monitoring well locations Location of all potential receptors
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



PROJECT:

ADDITIONAL ASSESSMENT PROPOSAL
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

DESCRIPTION:

SITE LOCATION MAP

FIGURE 1

DATE:

JULY 2024



REFERENCE:

U.S.G.S. TOPOGRAPHIC MAP
 (7.5 MINUTE SERIES)
 COLUMBIA NORTH - 2020
 SOUTH CAROLINA QUADRANGLE

LEGEND:

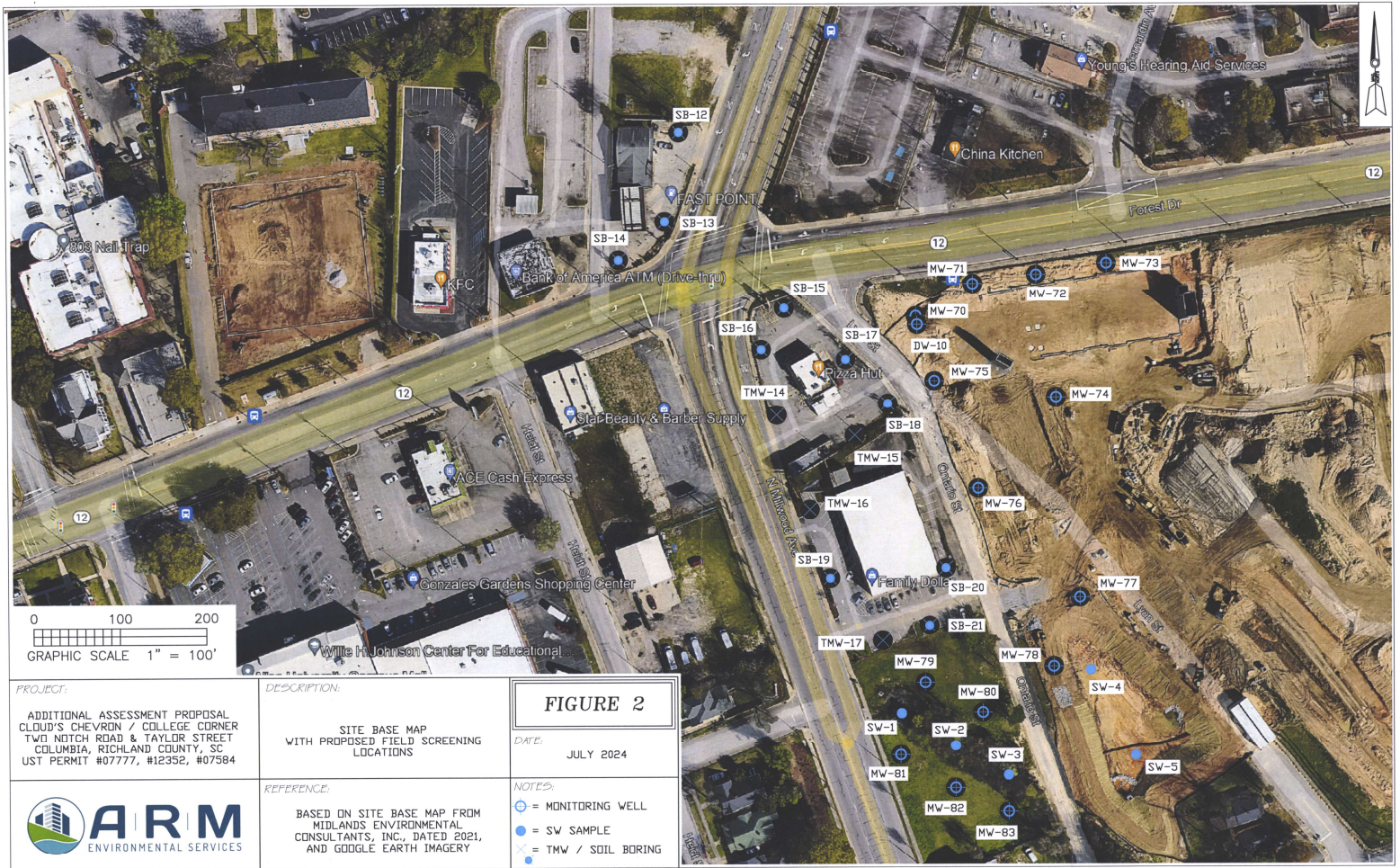


FIGURE 2

DATE: JULY 2024

- NOTES:
- ⊕ = MONITORING WELL
 - = SW SAMPLE
 - ⊗ = TMW / SOIL BORING

PROJECT:
 ADDITIONAL ASSESSMENT PROPOSAL
 CLOUD'S CHEVRON / COLLEGE CORNER
 TWO NOTCH ROAD & TAYLOR STREET
 COLUMBIA, RICHLAND COUNTY, SC
 UST PERMIT #07777, #12352, #07584

DESCRIPTION:
 SITE BASE MAP
 WITH PROPOSED FIELD SCREENING
 LOCATIONS

REFERENCE:
 BASED ON SITE BASE MAP FROM
 MIDLANDS ENVIRONMENTAL
 CONSULTANTS, INC., DATED 2021,
 AND GOOGLE EARTH IMAGERY



Facility Name:		College Corner / Cloud's Chevron		
UST Permit #:	07777, 12352, 07584	Cost Agreement #:	Pending	
K. Laboratory Analyses - Groundwater				
1.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (8260D)		sample	\$148.00	\$0.00
2.1 Dissolved Lead (6010D or 6020B)		sample	\$25.00	\$0.00
3.1 BTEXN, MTBE Including Oxygenates and 1,2 DCA (8260D) RUSH		sample	\$181.00	\$0.00
4.1 Trimethyl, Butyl, and Isopropyl Benzenes (8260D)		sample	\$34.00	\$0.00
5.1 Polynuclear Aromatic Hydrocarbons (PAHs) (8070E)		sample	\$82.00	\$0.00
6.1 Total Lead (6010D or 6020B)		sample	\$27.00	\$0.00
7.1 EDB by 8011		sample	\$60.00	\$0.00
8.1 EDB by 8011 RUSH		sample	\$82.00	\$0.00
9.1 RCRA 8 Metals		sample	\$80.00	\$0.00
10.1 TPH - Oil and Grease (9070)		per sample	\$54.00	\$0.00
11.1 pH (Lab)		per sample	\$9.00	\$0.00
12.1 BOD		per sample	\$28.00	\$0.00
13.1 Ethanol - (8015)		per sample	\$22.00	\$0.00
K. Laboratory Analyses - Drinking Water (Water Supply Wells)				
14.1 BTEXN, MTBE including Oxygenates and 1,2 DCA (524.2)		sample	\$162.00	\$0.00
15.1 8-Oxygenates (8260D)		sample	\$110.00	\$0.00
16.1 EDB (504.1)		sample	\$98.00	\$0.00
17.1 RCRA 8 Metals		sample	\$125.00	\$0.00
K. Laboratory Analyses-Soil				
18.1 BTEXN (8260D)		sample	\$82.00	\$0.00
19.1 PAH's (8270E)		sample	\$82.00	\$0.00
20.1 RCRA 8 Metals		sample	\$80.00	\$0.00
21.1 TPH - DRO (3550C/8015C)		sample	\$50.00	\$0.00
22.1 TPH - GRO (5035B/8015C)		sample	\$50.00	\$0.00
23.1 Grain size/Hydrometer	3	sample	\$154.00	\$462.00
24.1 Total Organic Carbon		sample	\$45.00	\$0.00
K. Laboratory Analyses - Air				
25.1 BTEXN (TO-15)		sample	\$365.00	\$0.00
K. Hydrocarbon Fuel Identification				
27. C3 - C44 Whole Oil (ASTM D3328)		sample	\$490.00	\$0.00
28. Fuel Oxygenates (1624 Mod)		sample	\$463.00	\$0.00
29. ALKYL Leads, EDB MMT (8080)		sample	\$463.00	\$0.00
30. C8 - C40 Full Scan (ASTM 5739)		sample	\$695.00	\$0.00
31. Simulated Distillation (ASTM 2887)		sample	\$463.00	\$0.00
32. Parent & Alk. PAH Com. (8270 SIM)		sample	\$825.00	\$0.00
33. C3 - C10 Piano (8260 Mod)		sample	\$695.00	\$0.00
34. C10+ Alkane Fingerprint (ASTM 3328)		sample	\$695.00	\$0.00
35. Expert Data Interpretation & Report		sample	\$720.00	\$0.00
L. Aquifer Characterization*				
2.1 Slug Test		per test	\$310.00	\$0.00
3.1 Fractured Rock		per test	\$190.00	\$0.00
M. Free Product Recovery Rate Test*				
		each	\$100.00	\$0.00
P. Subsequent Survey*				
		each	\$300.00	\$0.00

Facility Name: College Corner / Cloud's Chevron					
UST Permit #: 07777, 12352, 07584		Cost Agreement #: Pending			
Q. Disposal					
1. Wastewater (per gallon)	50	gallon	\$0.66		\$33.00
2. Free Product (per gallon)		gallon	\$0.68		\$0.00
3. Soil Treatment/Disposal (per ton)	1	ton	\$82.00		\$82.00
4. Drilling fluids (per gallon)		gallon	\$0.70		\$0.00
Y. Well Repair					
1.1 Additional Copies of Report	3	each	\$70.00		\$210.00
5.1 Replace well cover bolts		each	\$5.00		\$0.00
6.1 Replace locking well cap & lock		each	\$23.00		\$0.00
10.1 Replace missing/illegible well ID plate		each	\$25.00		\$0.00
S. Report Preparation/Project Coordination		15%	percent	\$15,637.00	\$2,345.55
TOTAL					\$17,982.55

Tier II Contract 03-2023