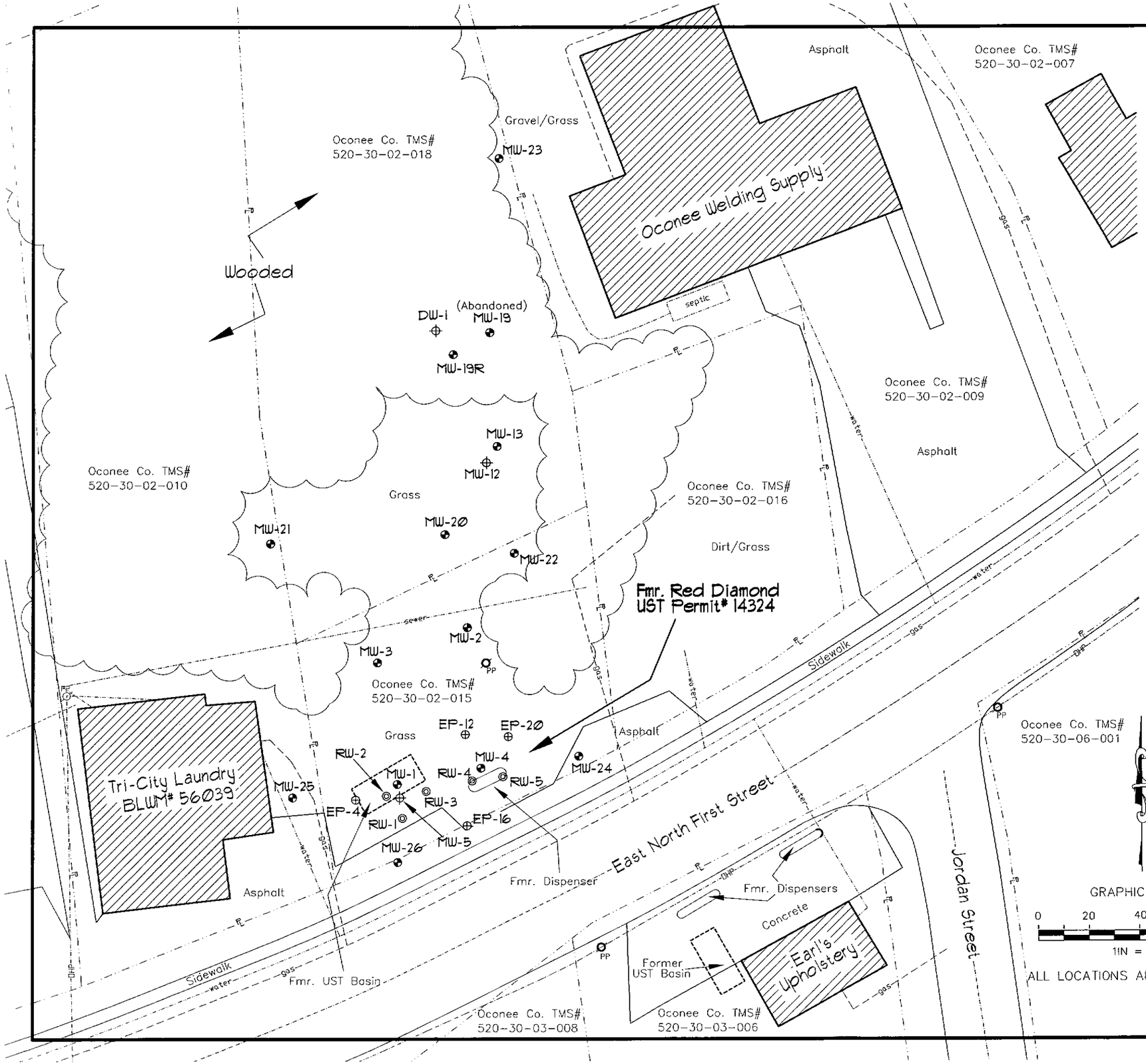


Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- P — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

Potentiometric Data

Well #	Screened Interval (feet)	Depth to Water (ft.)	Well Head Elevation	Groundwater Elevation
MW-1	25-40	NM	98.32	NM
MW-2	30-40	NM	98.60	NM
MW-3	30-40	NM	97.92	NM
MW-4	30-40	NM	99.07	NM
MW-5	60-65	NM	98.03	NM
MW-12	60-65	NM	99.12	NM
MW-13	36-46	NM	99.41	NM
MW-19	35-45	Abandoned	99.58	Abandoned
MW-19R	30-40	34.08	99.09	65.01
MW-20	30-40	33.92	98.30	64.38
MW-21	30-40	30.96	95.58	64.62
MW-22	30-40	33.10	99.03	65.93
MW-23	30-40	35.71	104.14	68.43
MW-24	30-40	33.30	100.19	66.89
MW-25	30-40	31.57	95.40	63.83
MW-26	30-40	32.86	98.46	65.60
DW-1	60-65	32.67	98.63	65.96
RW-1	20-40	31.94	98.64	66.70
RW-2	20-40	32.06	98.74	66.68
RW-3	20-40	31.86	98.73	66.87
RW-4	20-40	31.62	99.31	67.69
RW-5	20-40	31.43	99.52	68.09
EP-4	20-35	NM	Unknown	NM
EP-12	20-35	NM	Unknown	NM
EP-16	TD:34.35	NM	Unknown	NM
EP-20	13-35	NM	Unknown	NM

Notes: NM = Not Measured

TD = Total Depth

Site Datum Based on Assumed Spot Elevation.

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Potentiometric Data Site Map

Former Red Diamond
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 15-5171
DATE July 9, 2015
FIGURE 5

APPENDIX A:

SITE SURVEY

(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

(Not Applicable)

APPENDIX C:

TAX MAP

(Not Applicable)

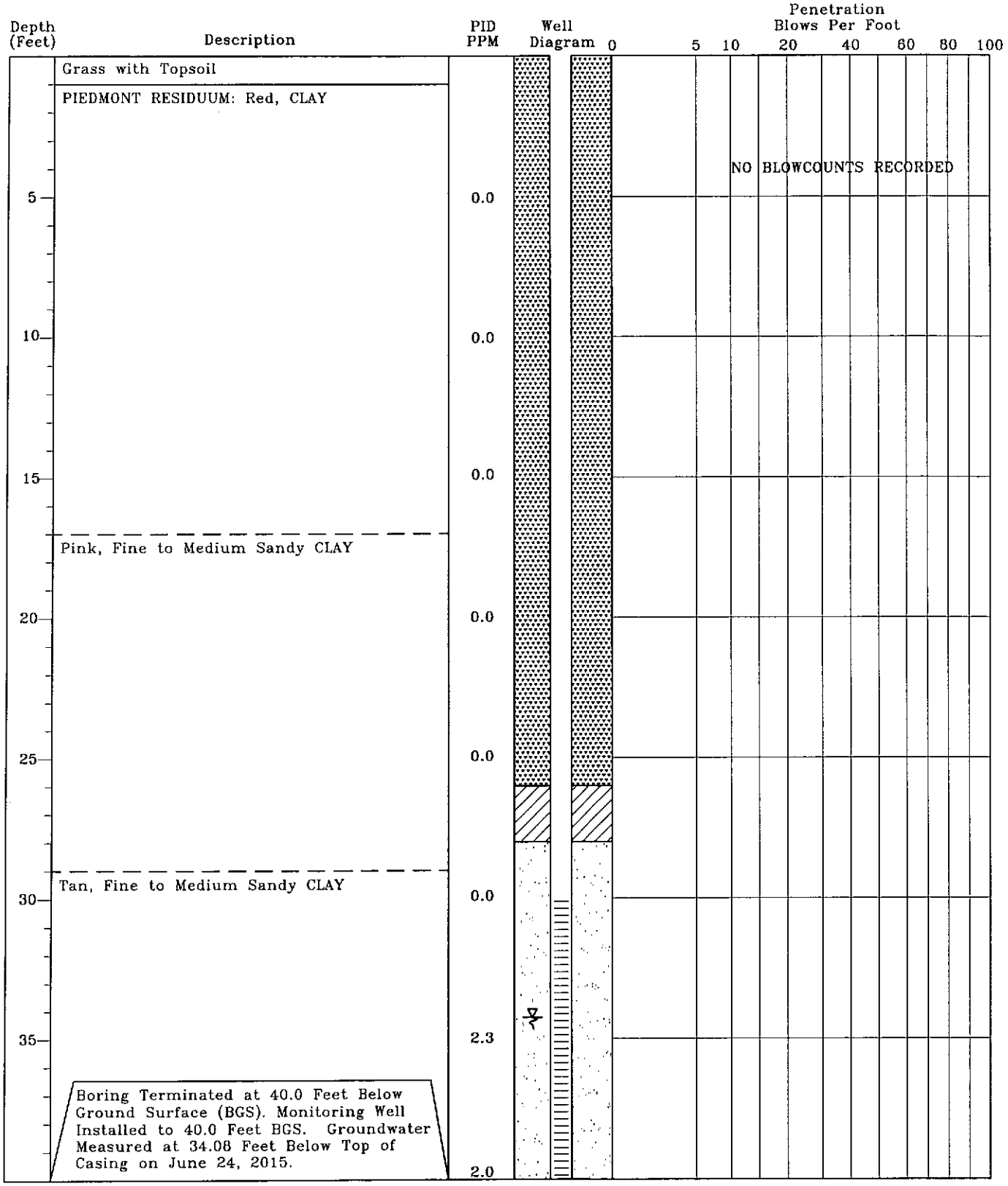
APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:

WELL COMPLETION LOGS & 1903 FORMS



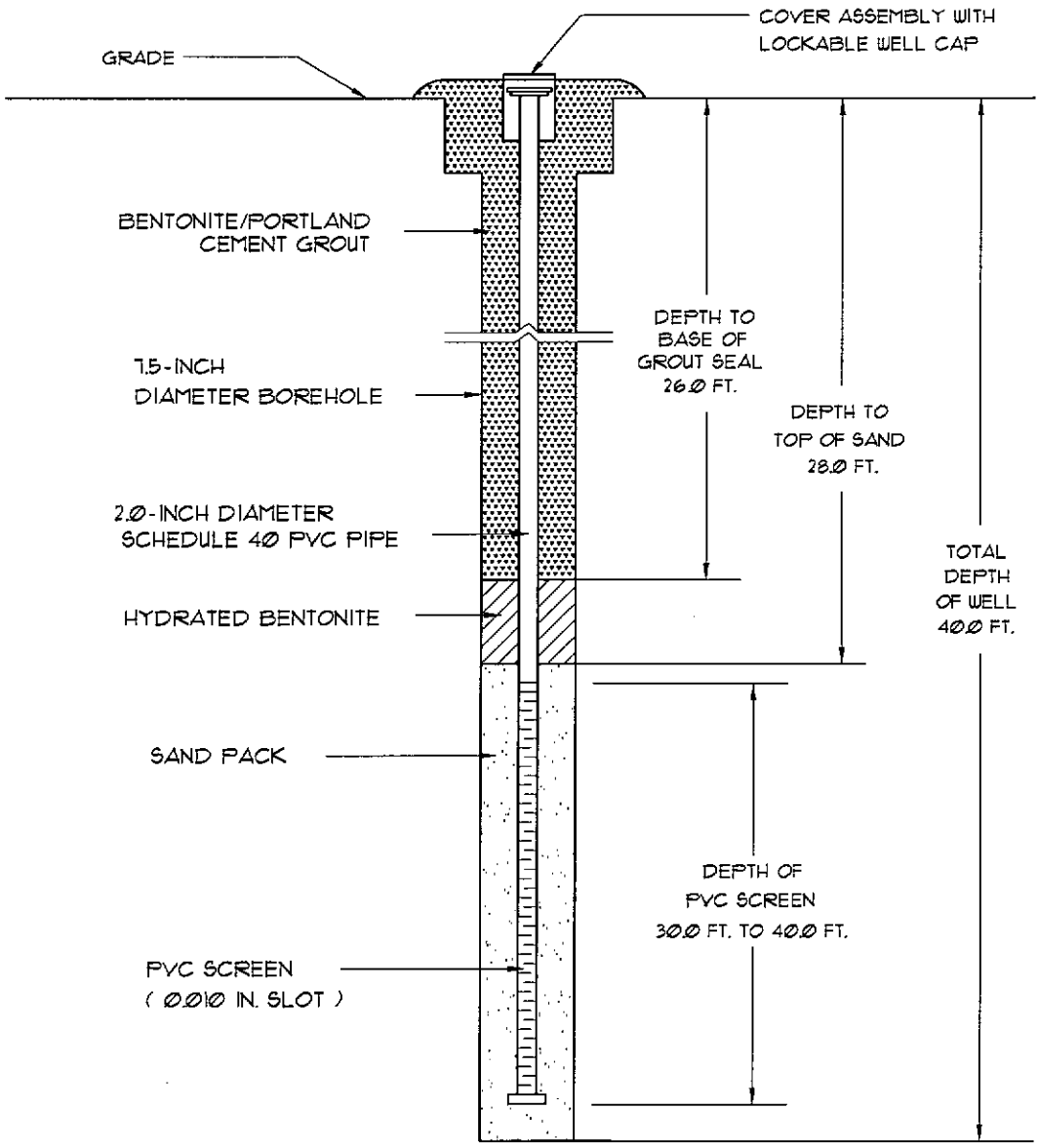
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-19R (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

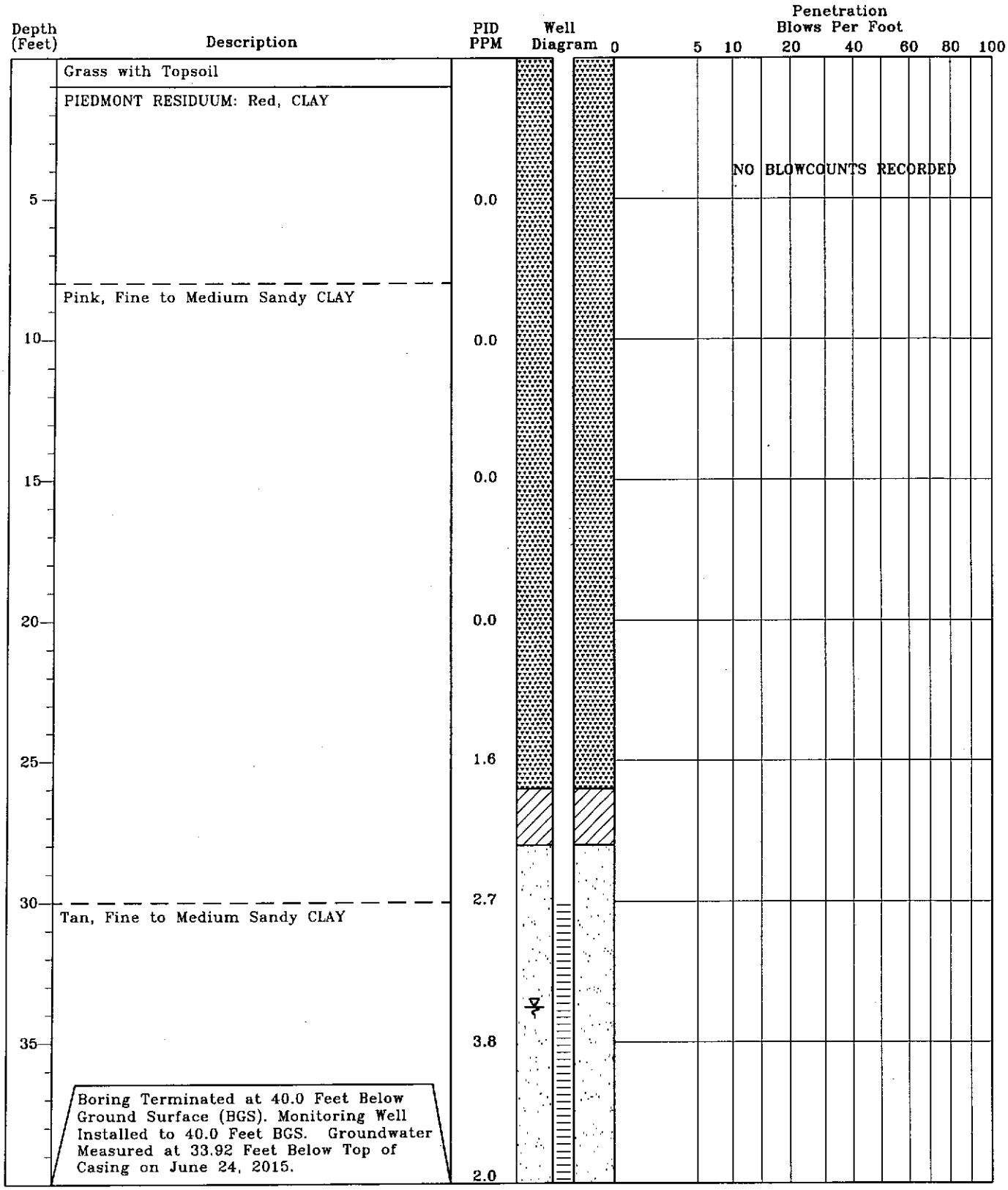
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	MW-19R (14324)
Date Drilled:	6/9/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048



TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-20 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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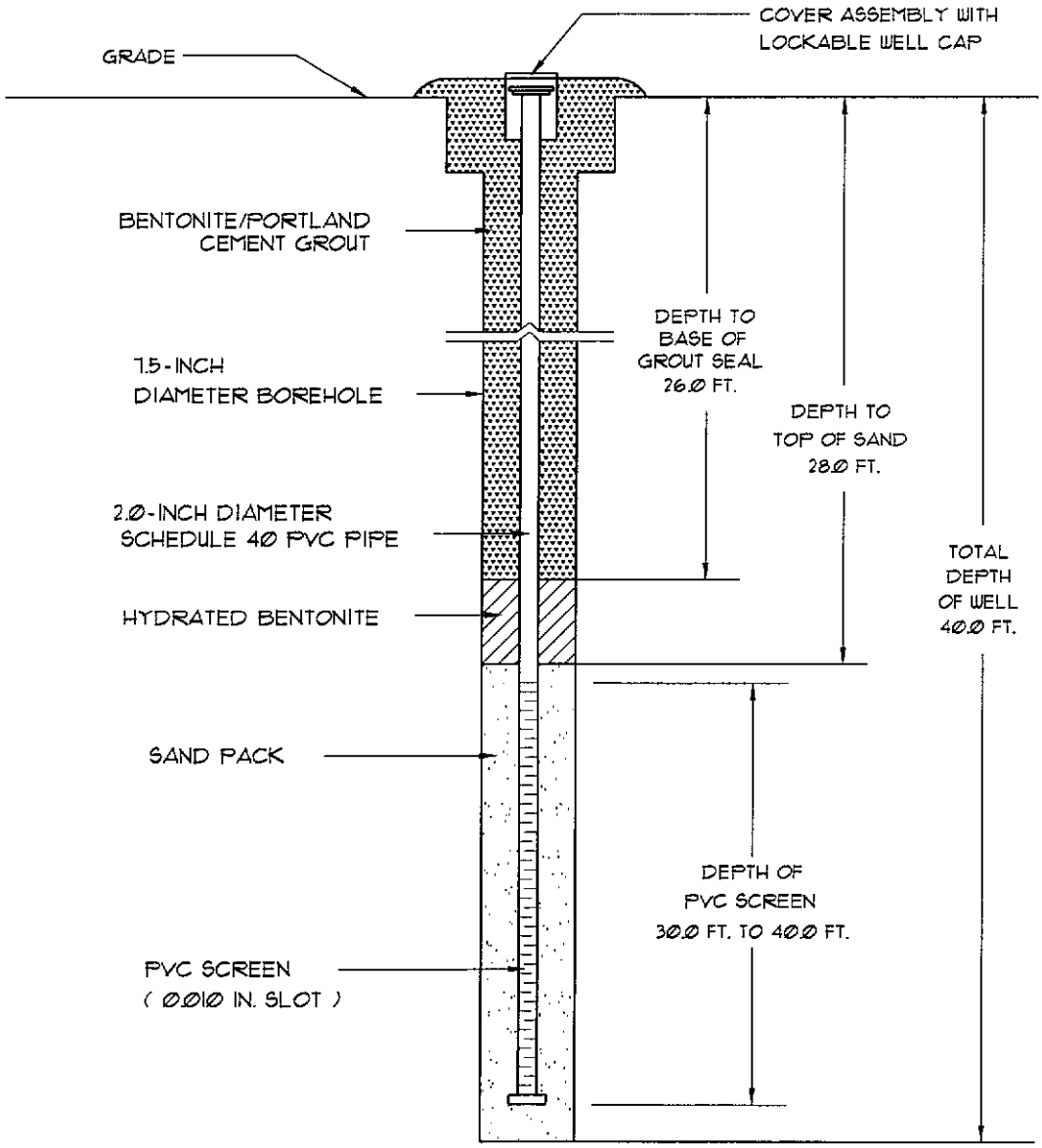
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	MW-20 (14324)
Date Drilled:	6/9/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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Lexington, South Carolina 29073
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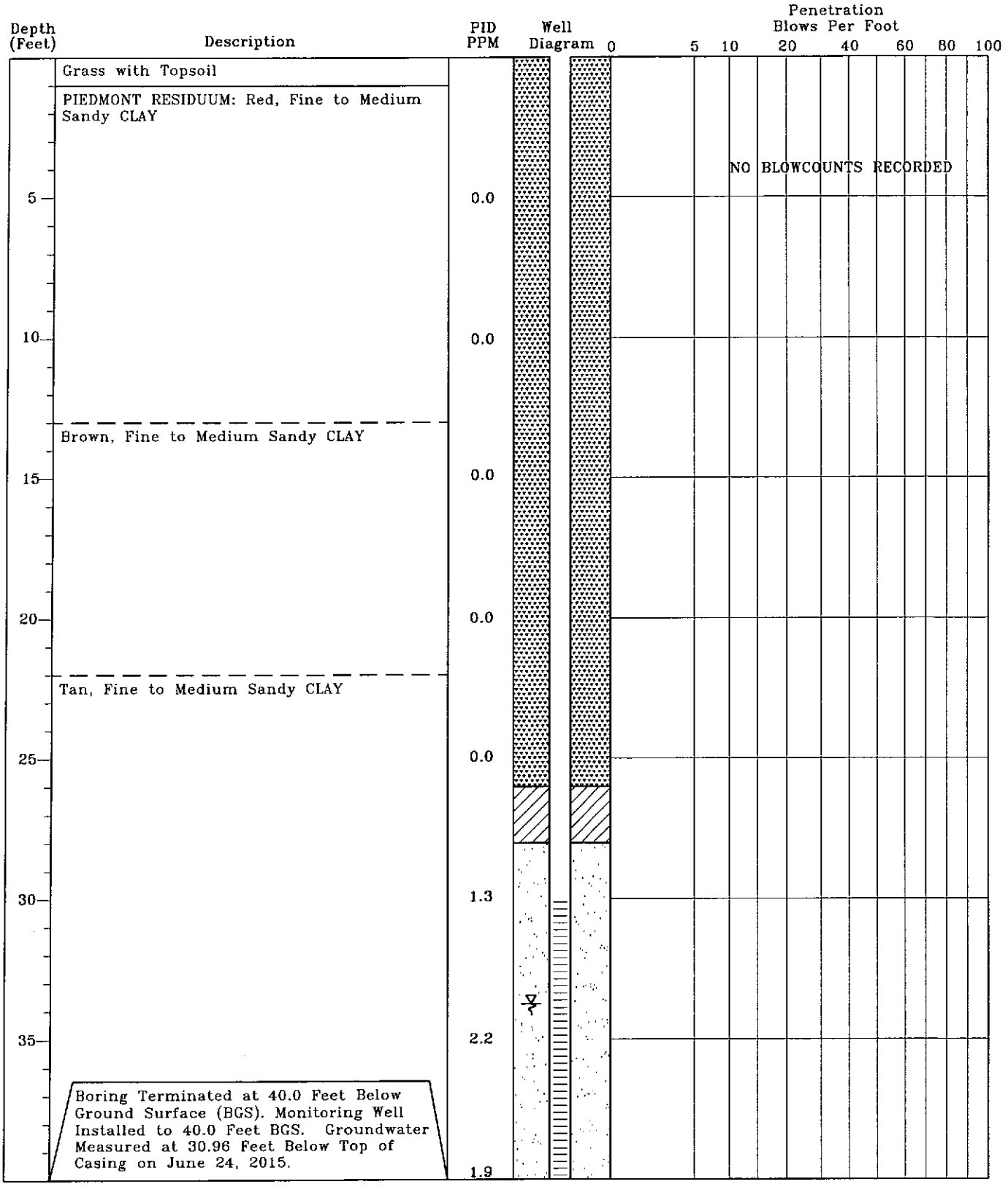

TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-21 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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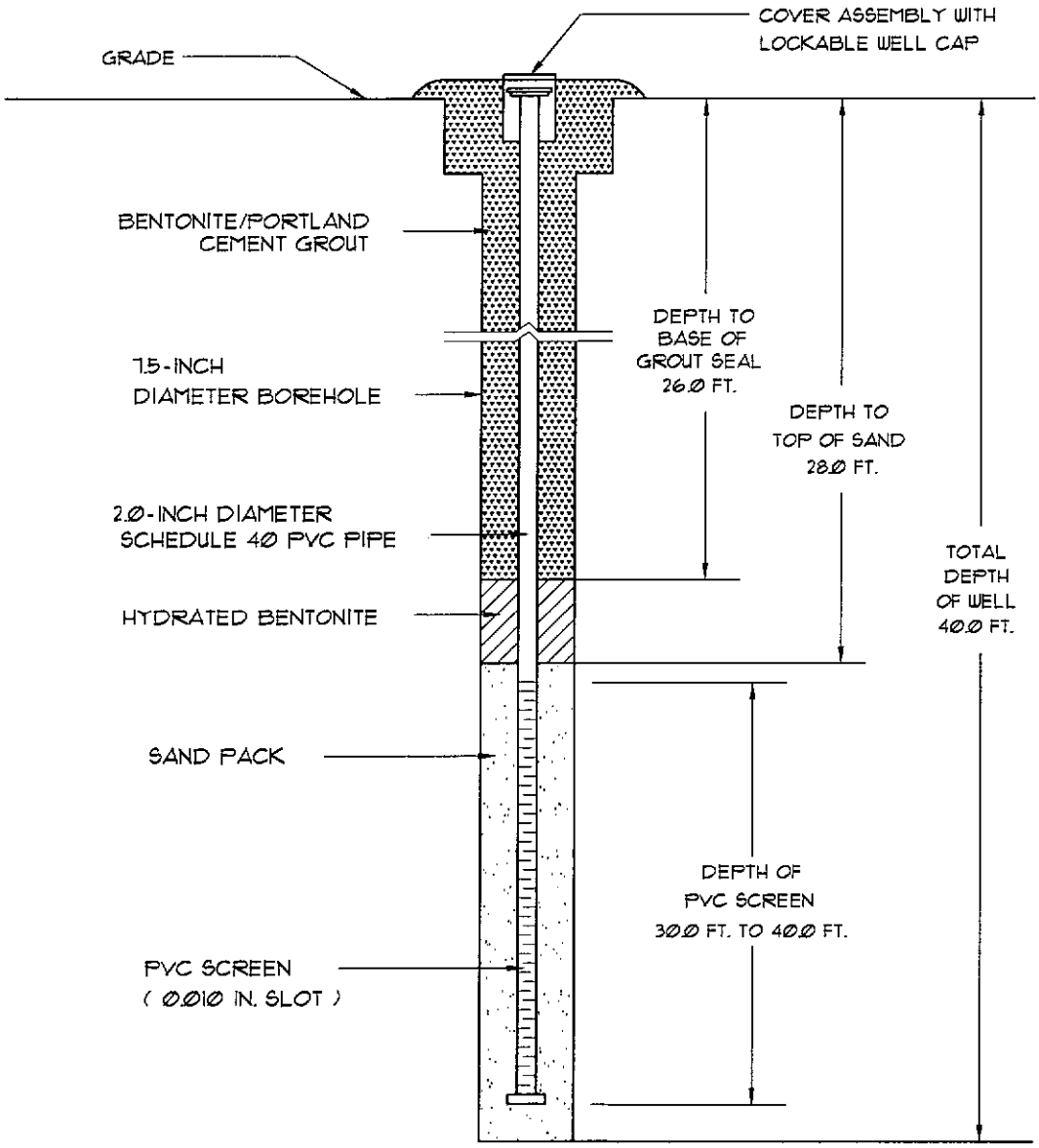
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	MW-21 (14324)
Date Drilled:	6/9/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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Lexington, South Carolina 29073
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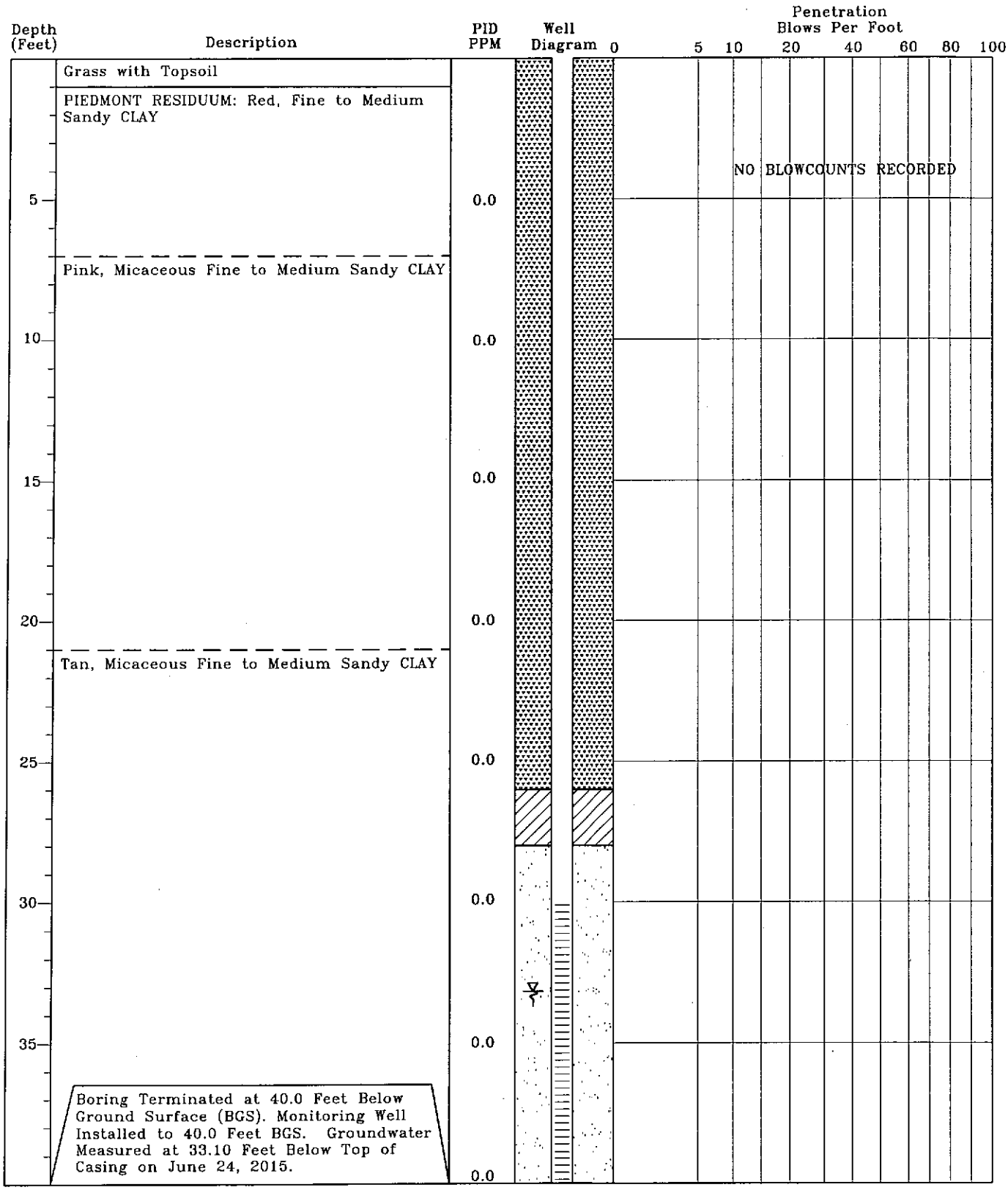

TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-22 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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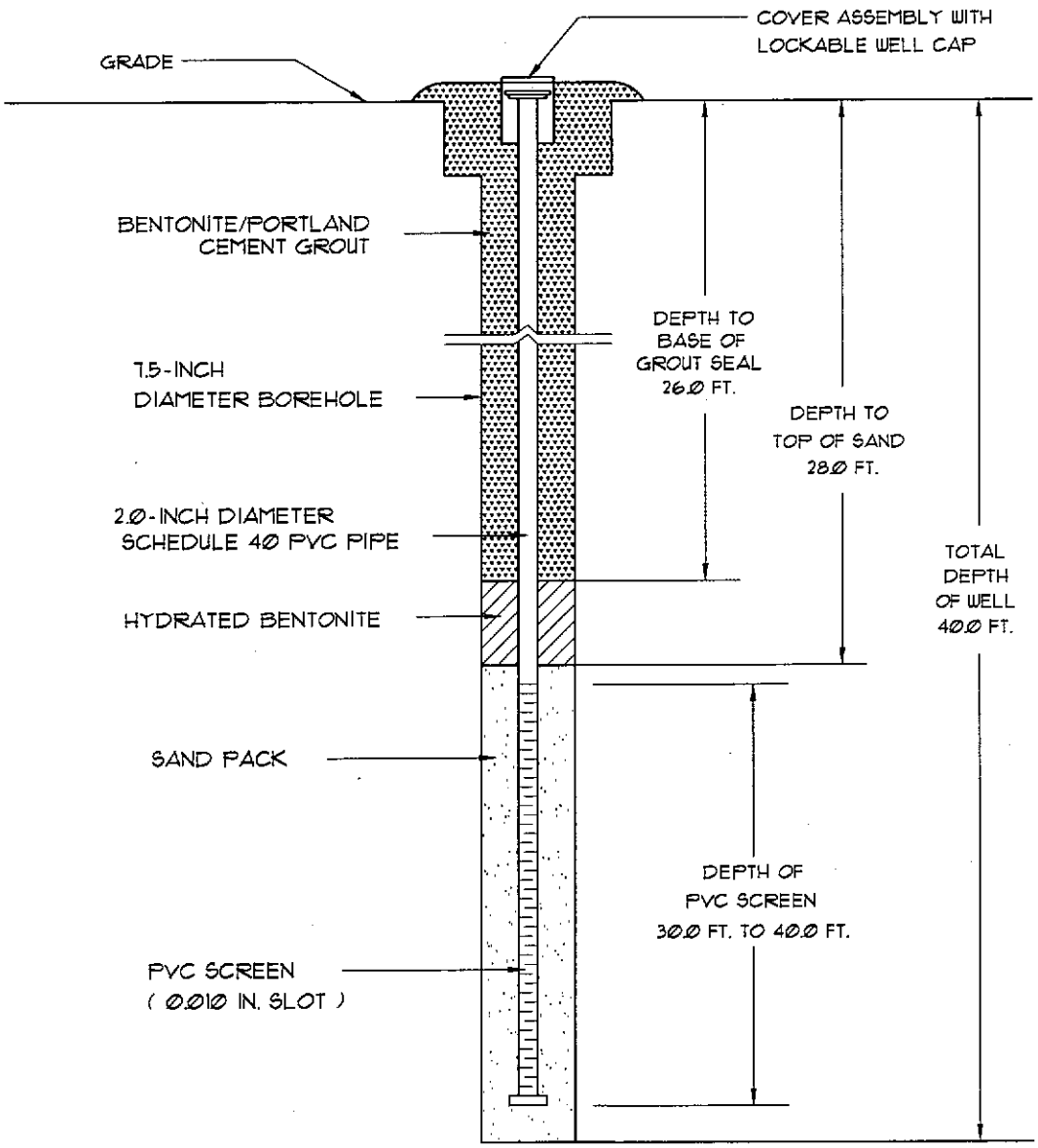
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	MW-22 (14324)
Date Drilled:	6/9/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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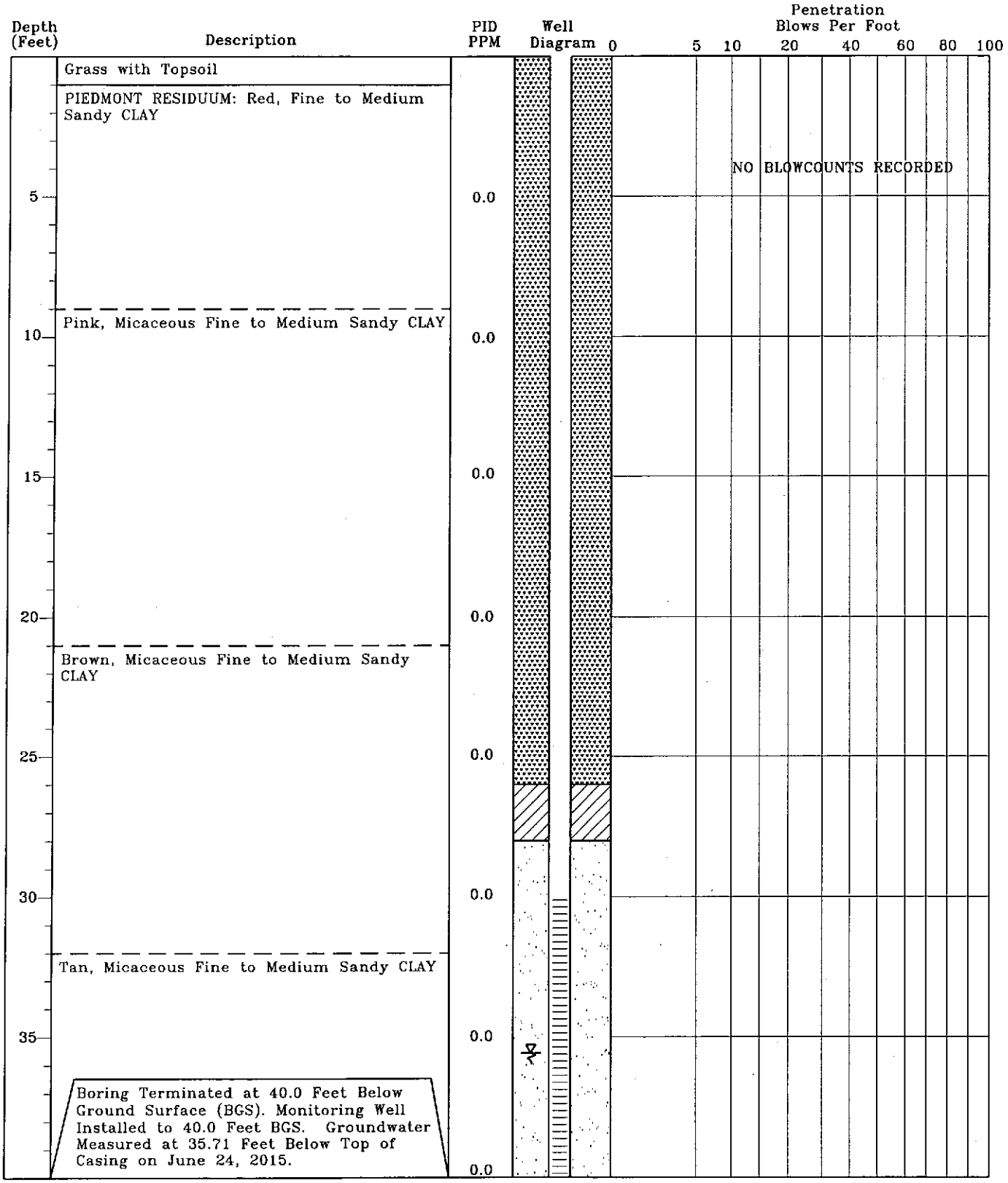
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-23 (14324)
Date Drilled:	6/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
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MONITORING WELL INSTALLATION RECORD

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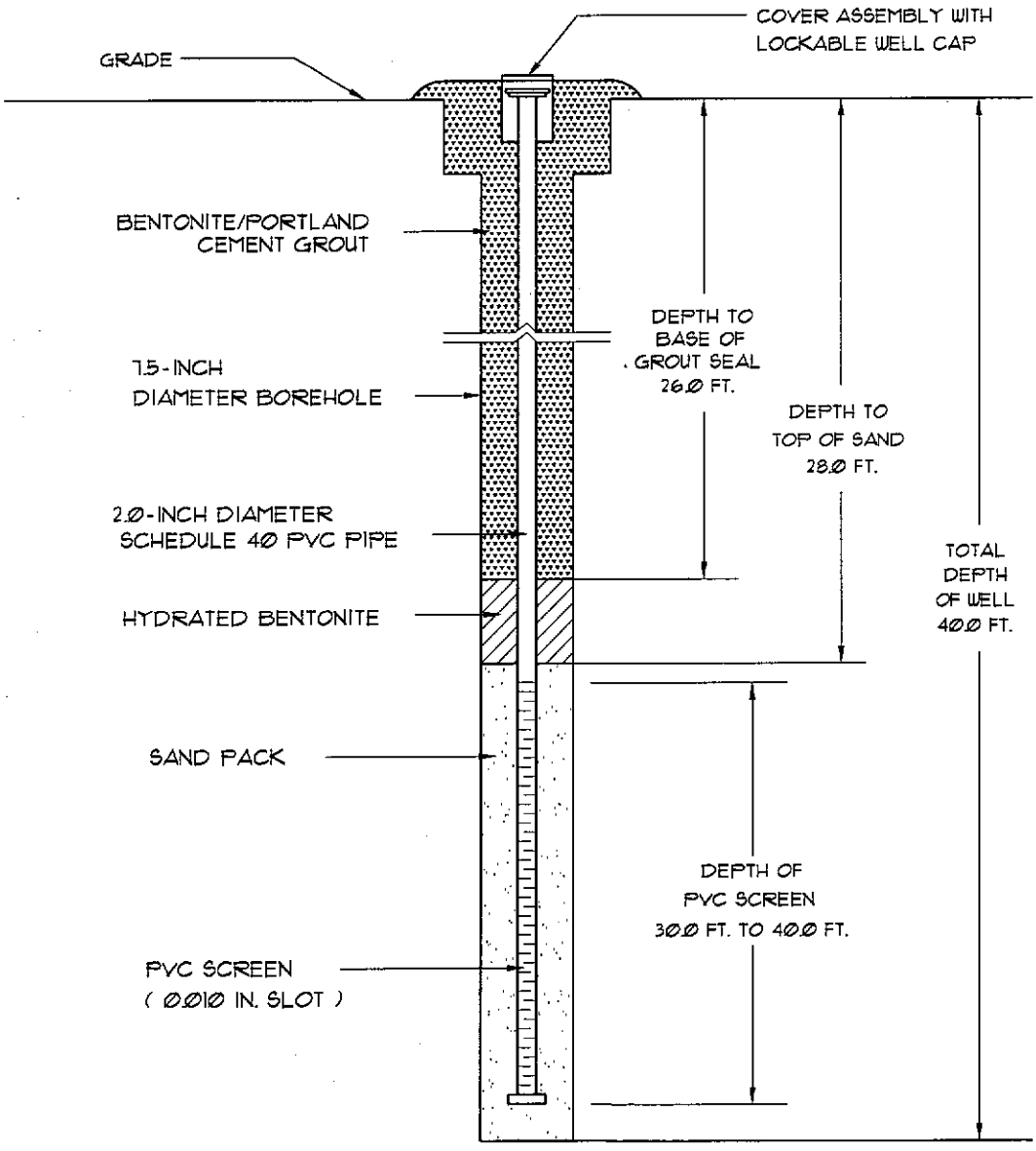
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



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Date Drilled:	6/11/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
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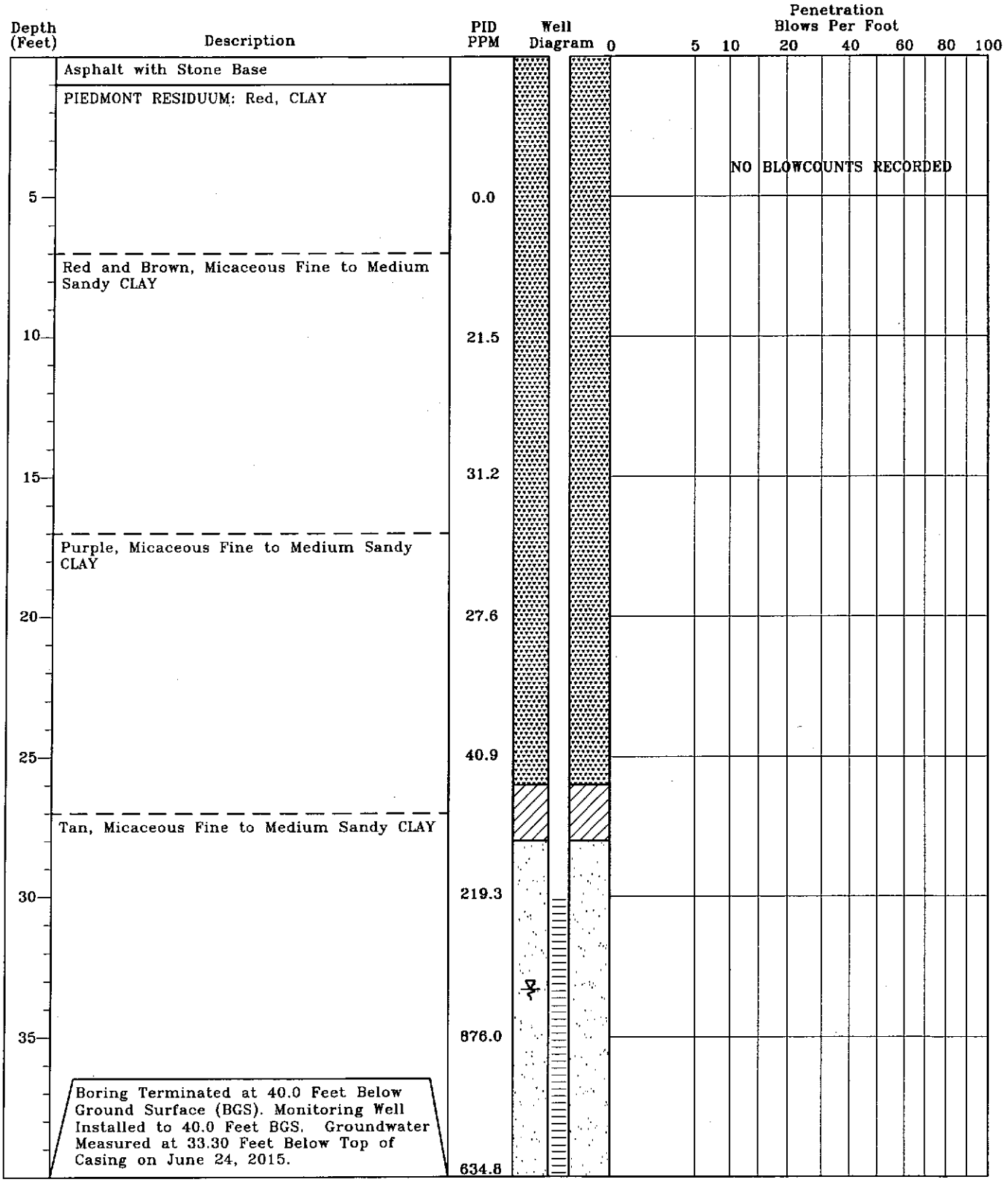


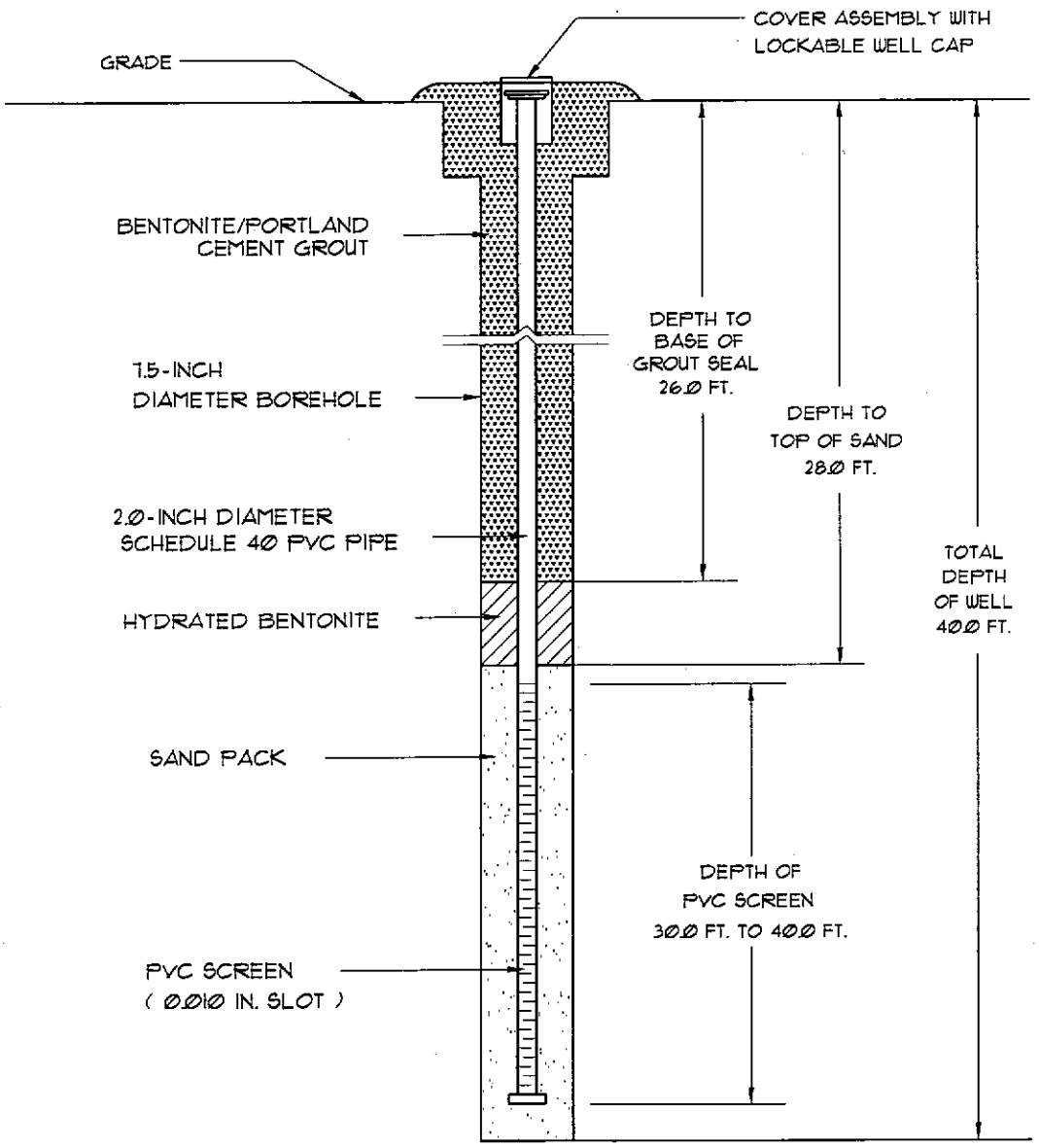
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-24 (14324)
Date Drilled:	6/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

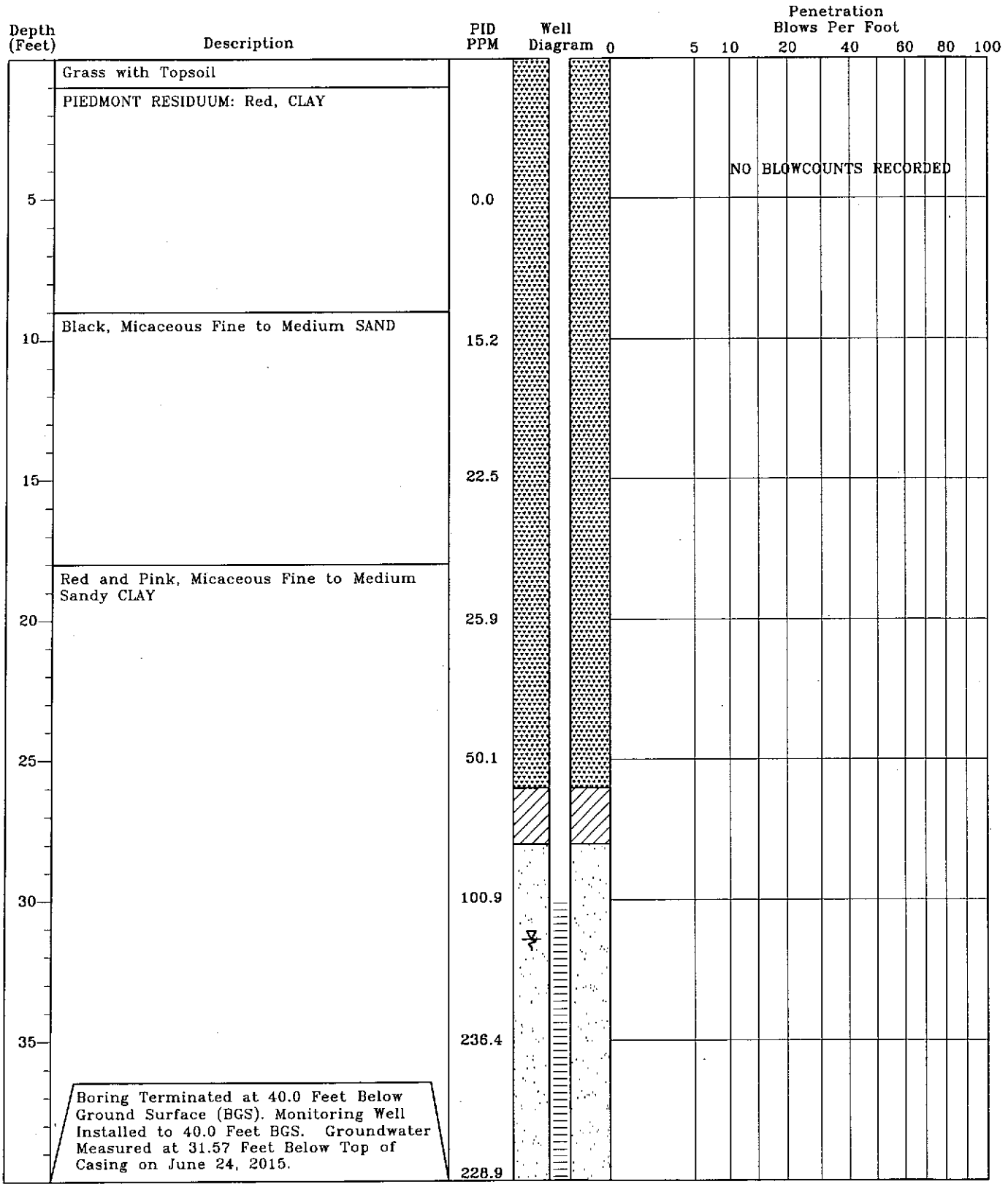
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	MW-24 (14324)
Date Drilled:	6/11/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048



TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-25 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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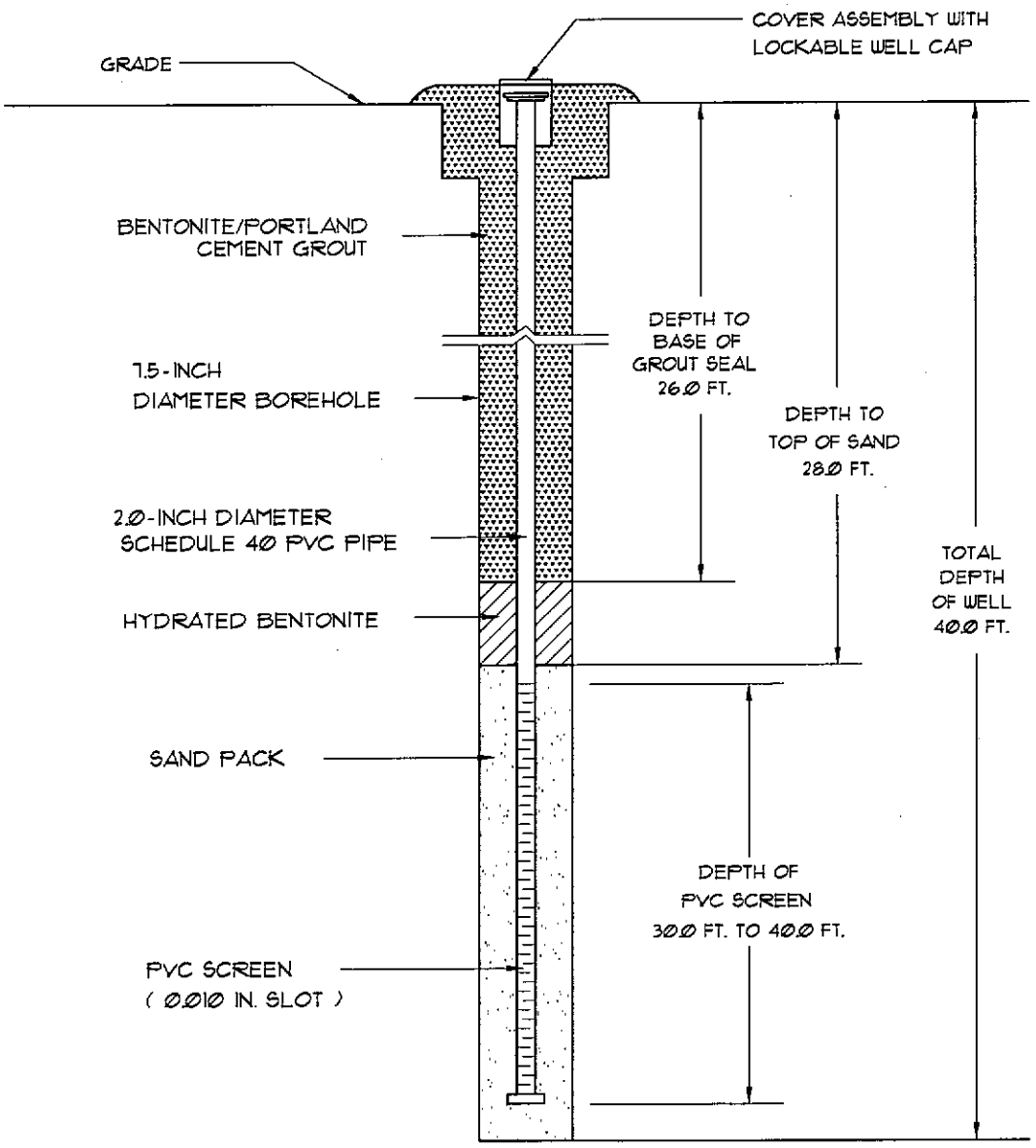
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



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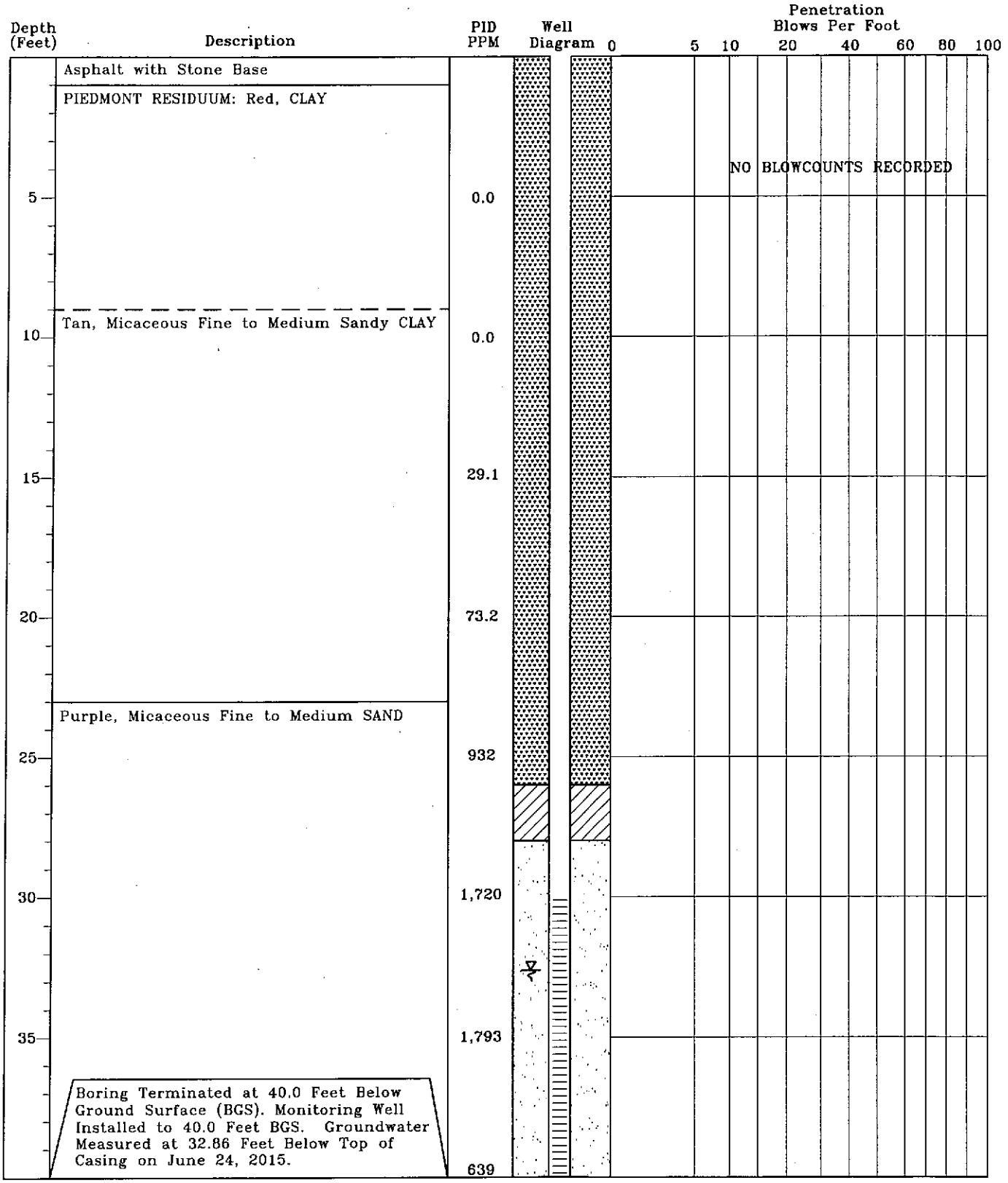
Date Drilled:	6/11/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



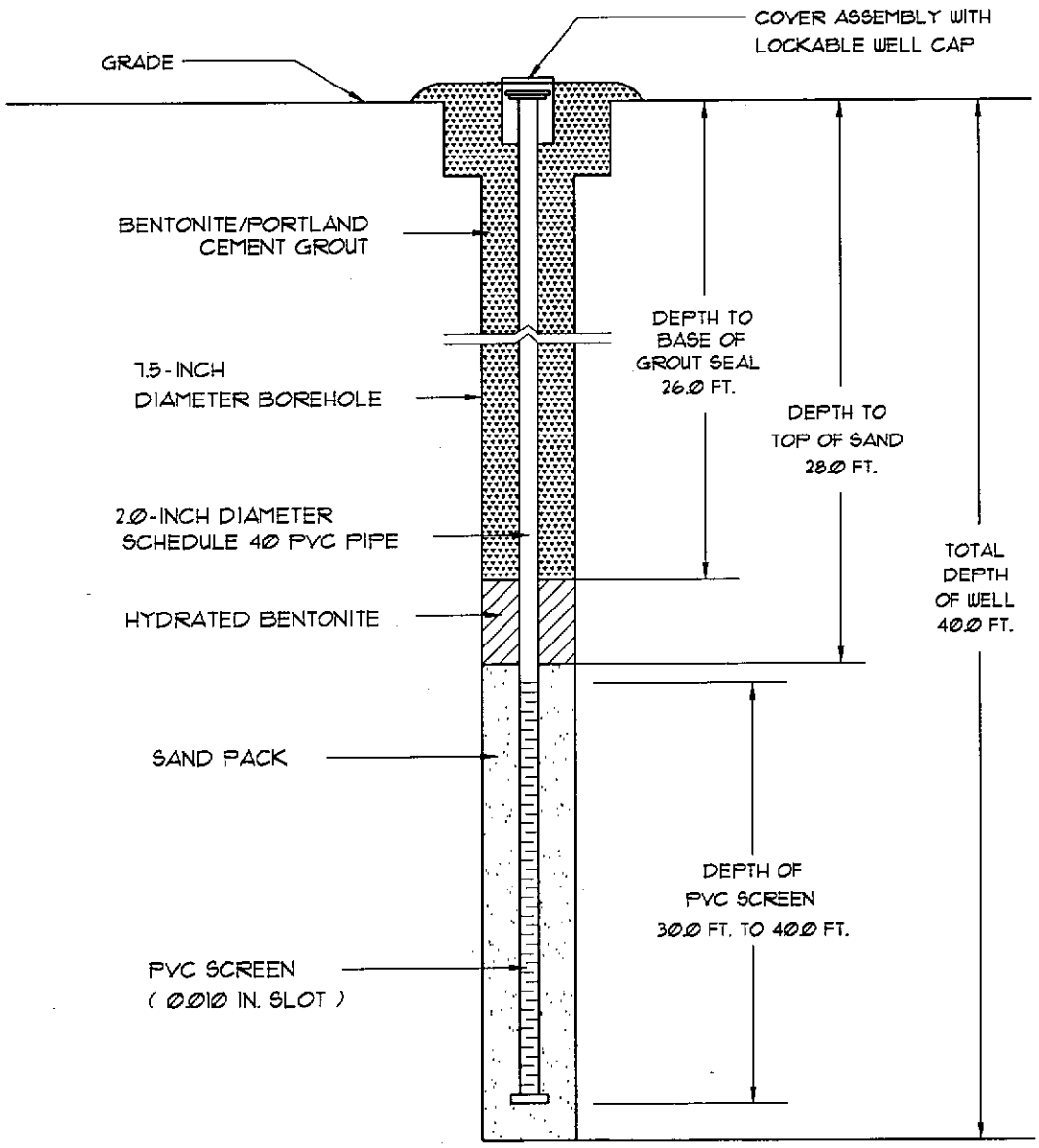
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	MW-26 (14324)
Date Drilled:	6/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

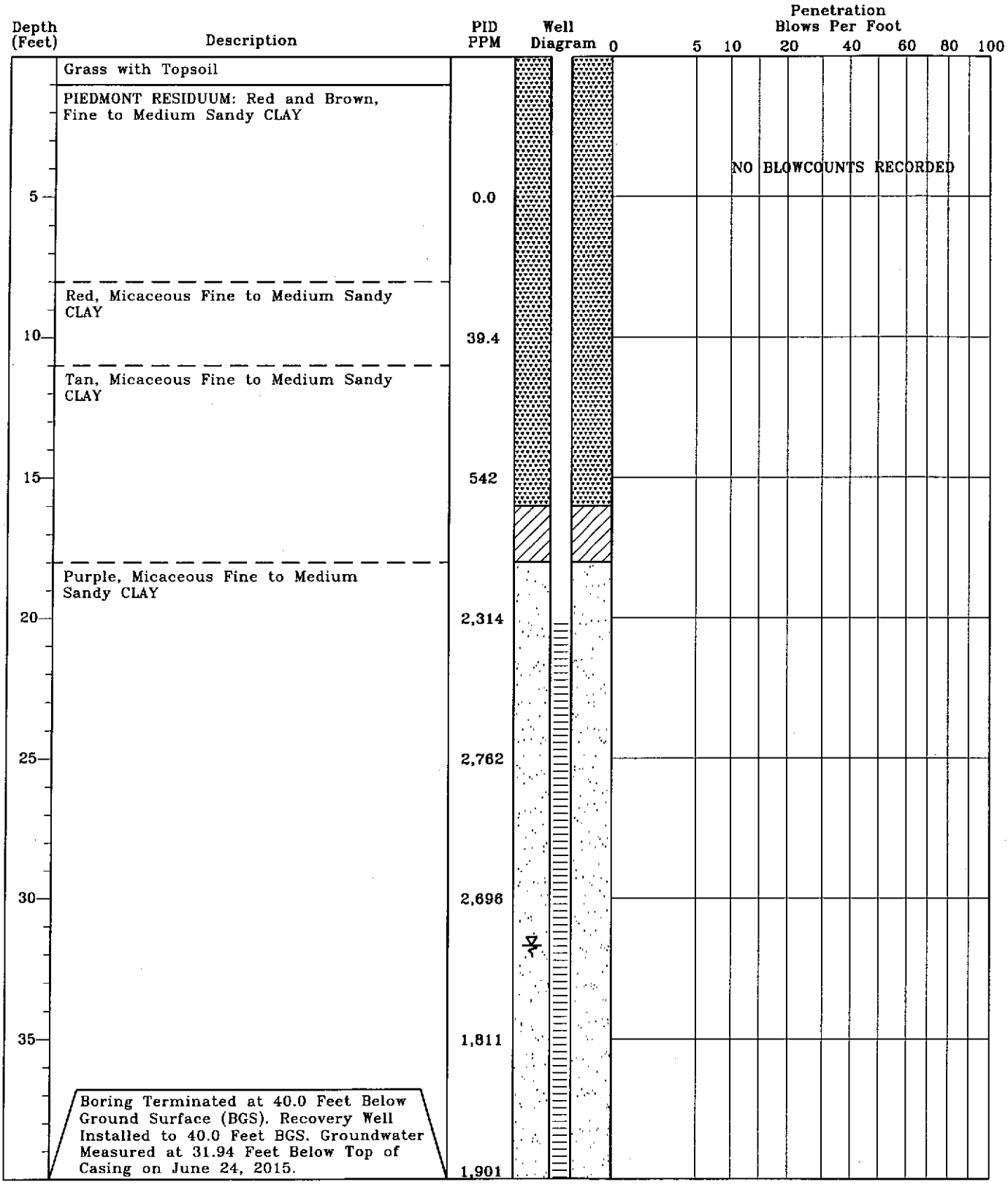
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	MW-26 (14324)
Date Drilled:	6/11/2015
Drilled By:	Enviornmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D.#: B 01846
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-2048



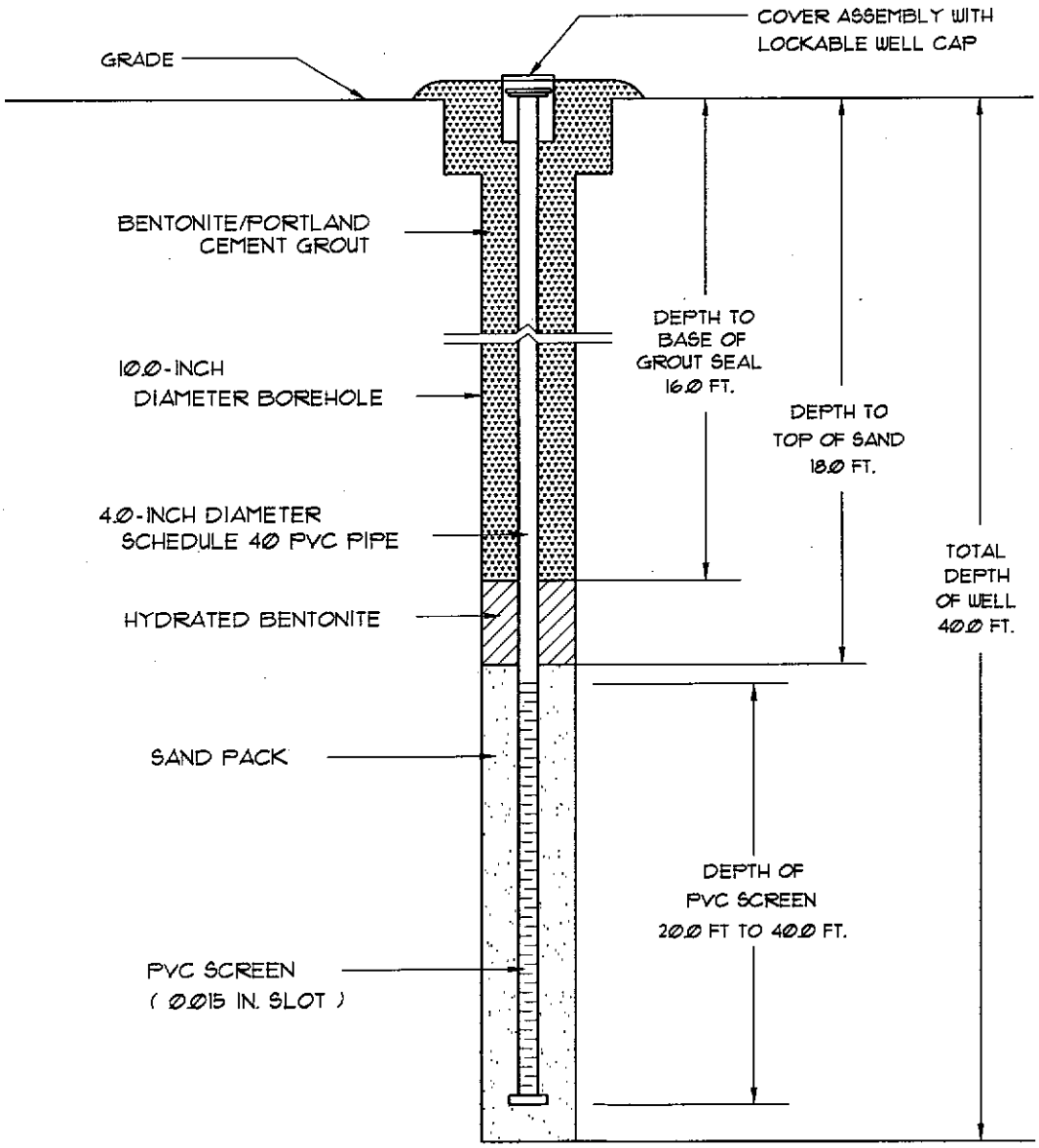
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	RW-1 (18234)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

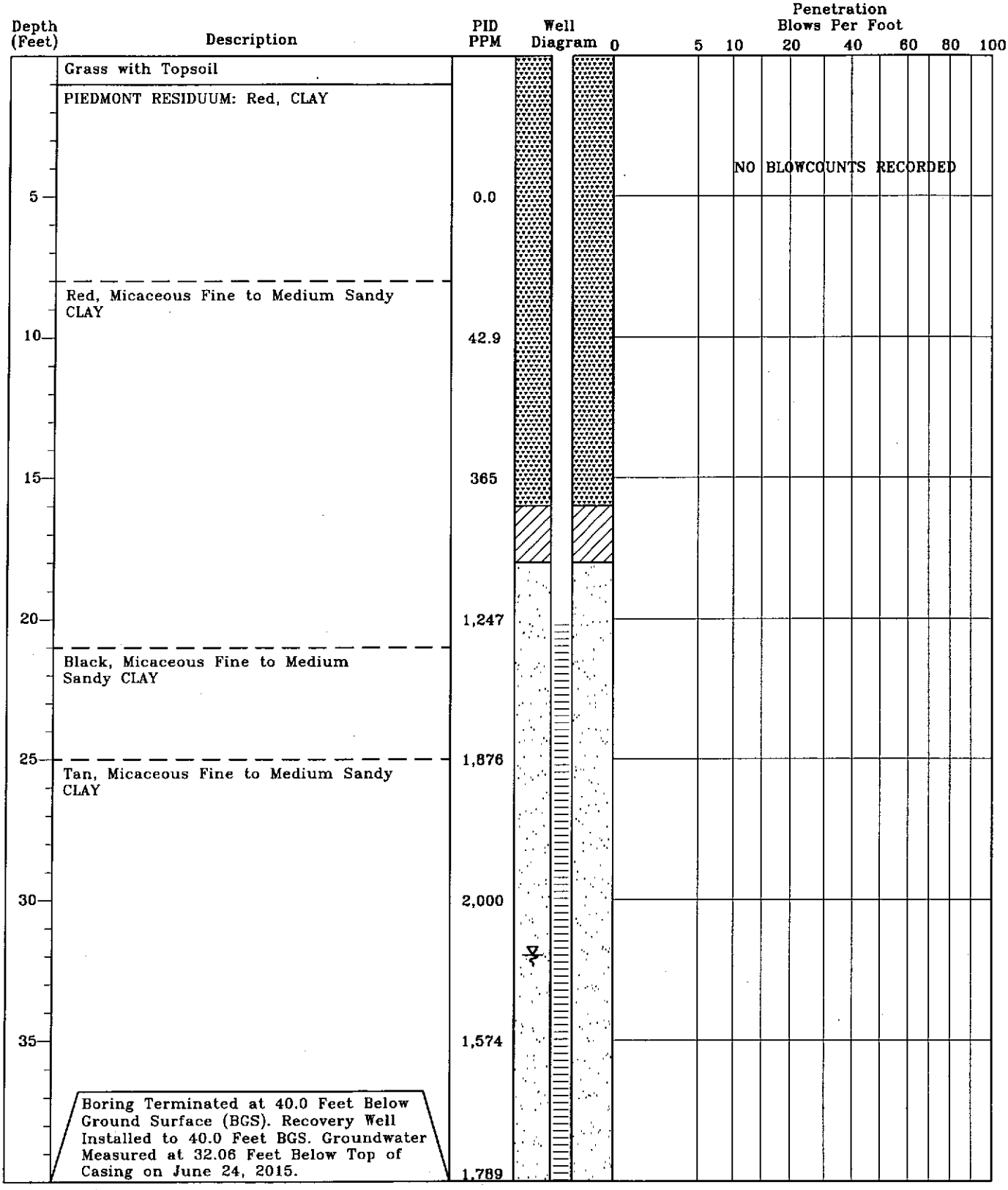
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	RW-1 (14324)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Pobing Services
Driller: T. Bolyard S.C. I.D. #: B 01846	
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



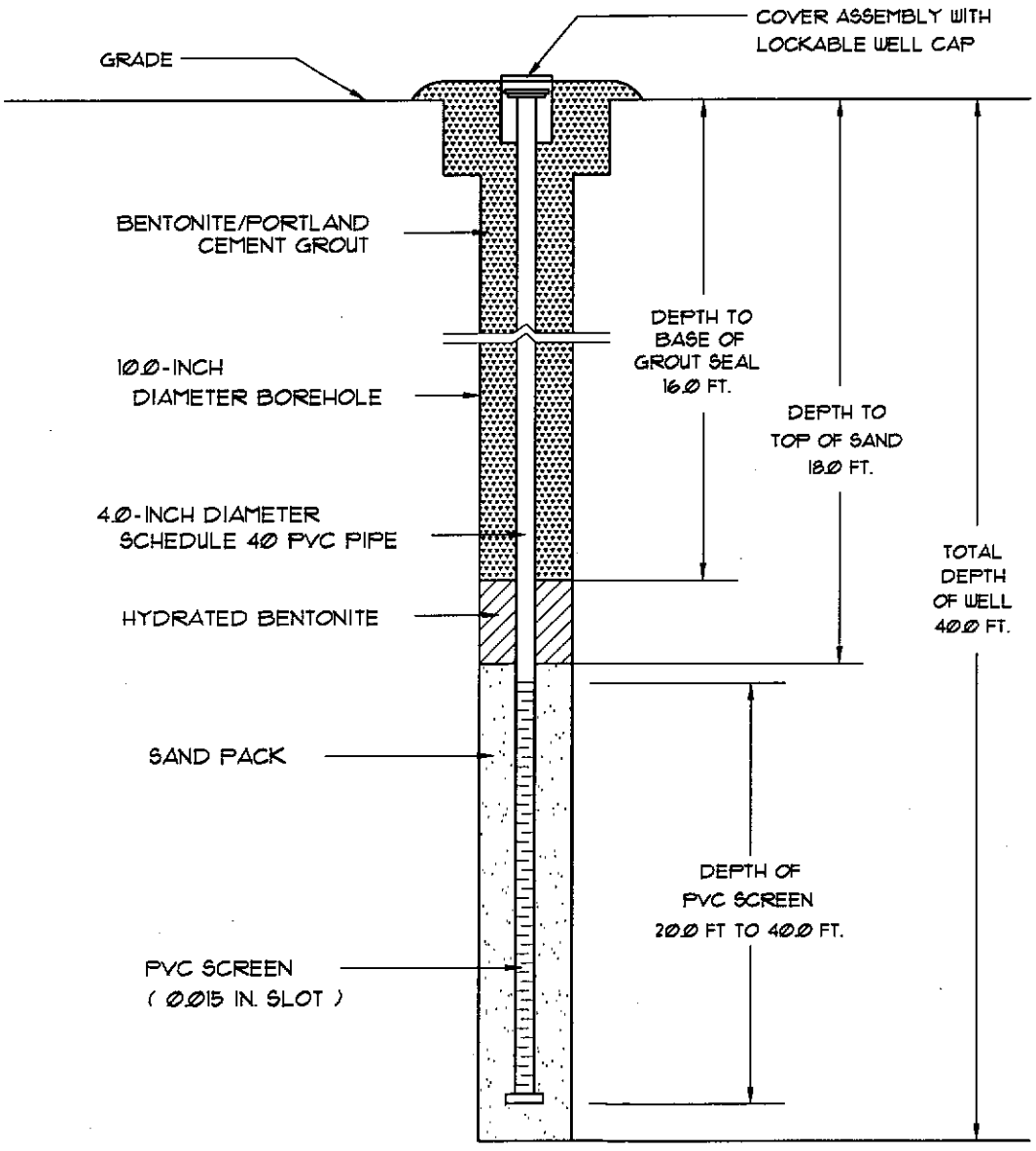
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	RW-2 (18234)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

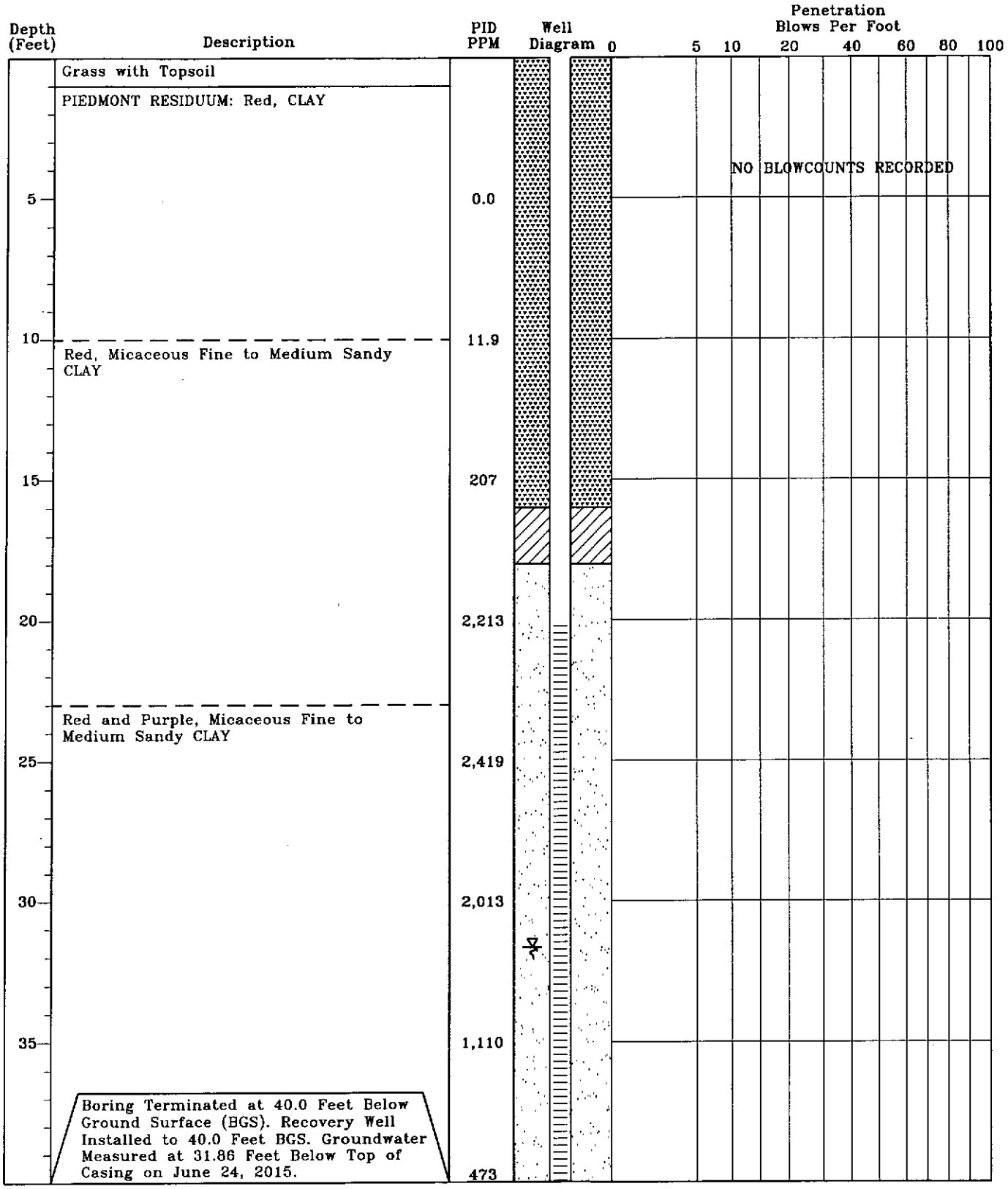
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	RW-2 (14324)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Pobing Services
Driller: T. Bolyard S.C. I.D. #: B 01846	
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048



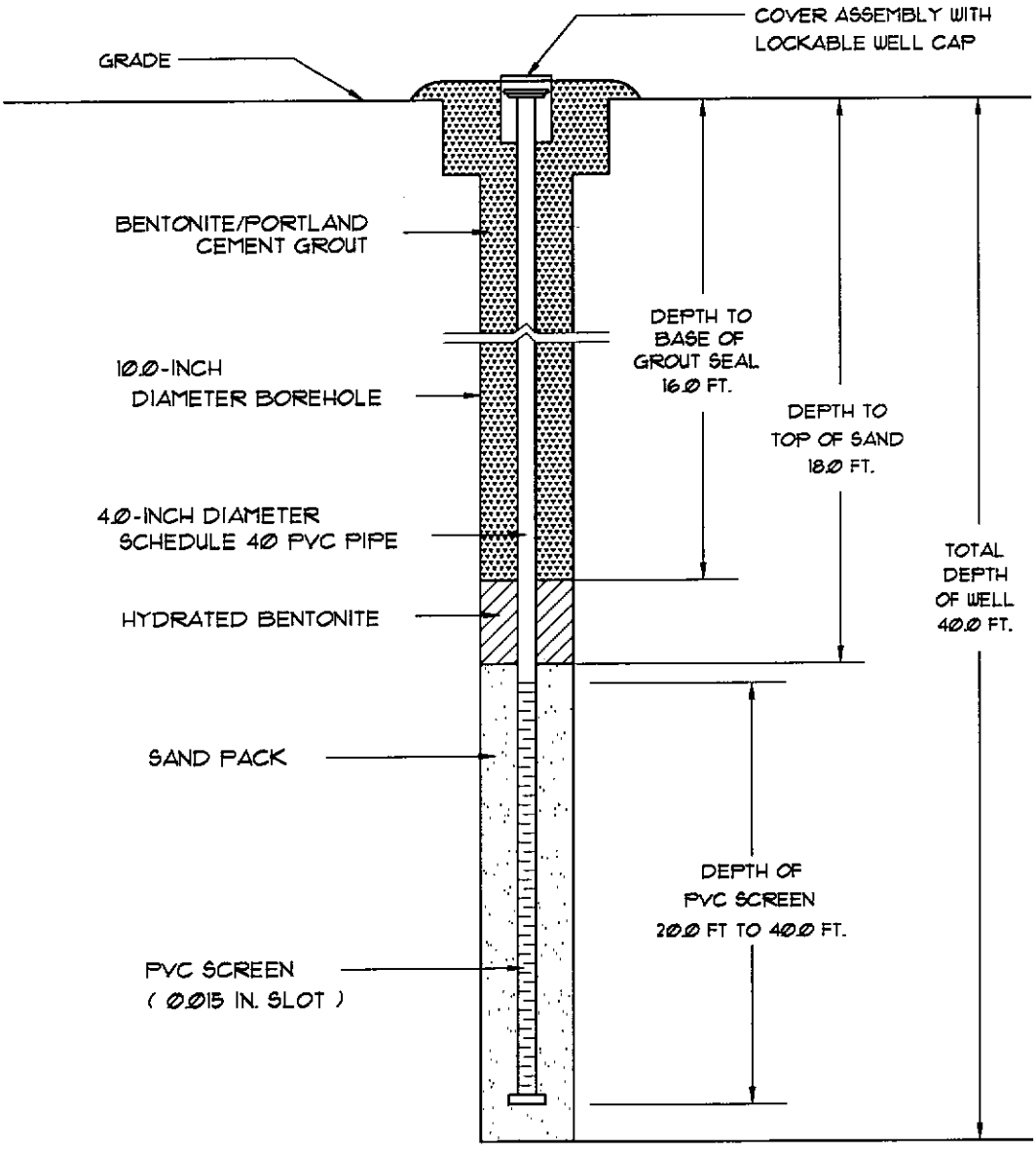
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	RW-3 (18234)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

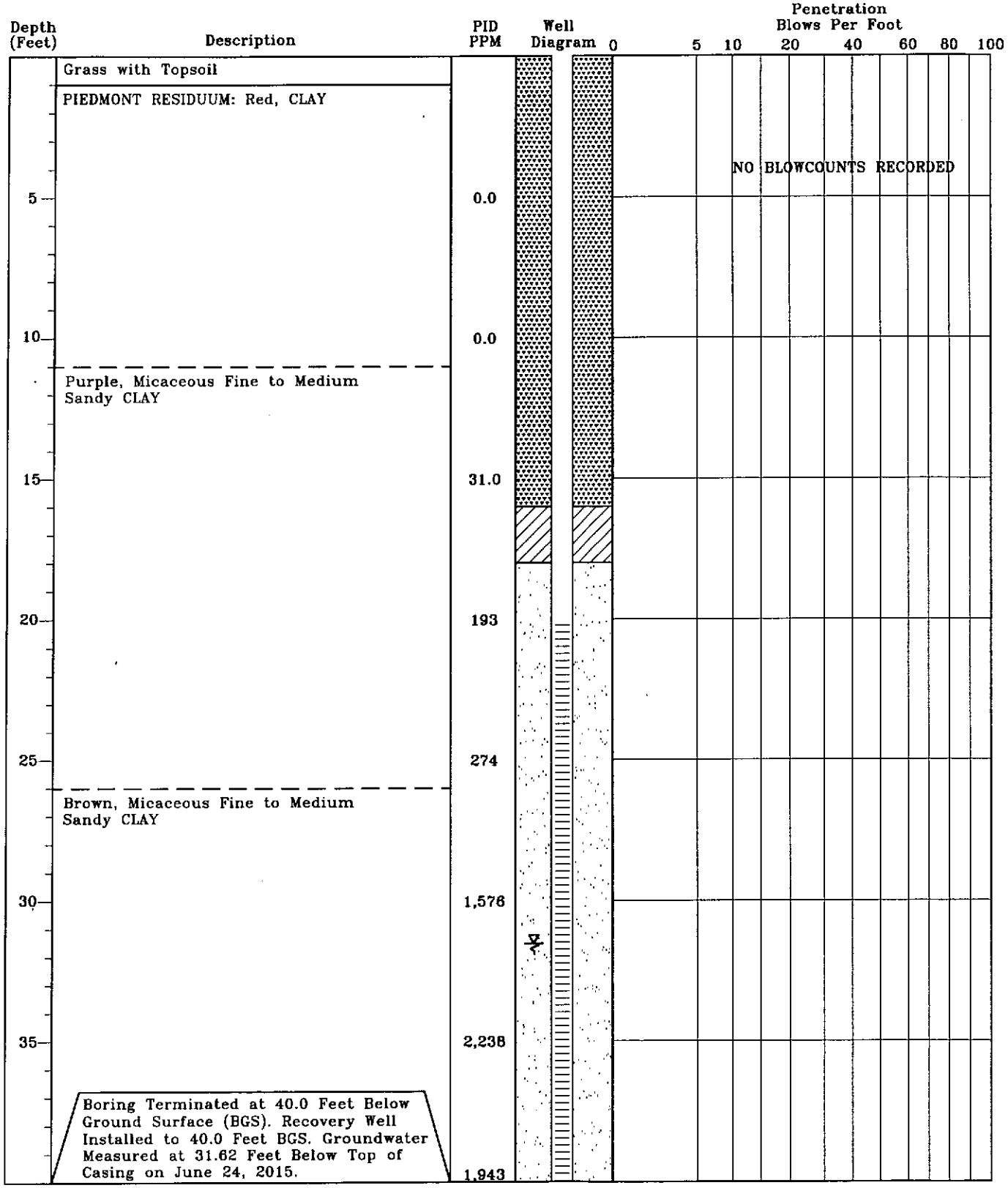
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	RW-3 (14324)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Pobing Services
Driller: T. Bolyard S.C. I.D. #: B 01846	
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	RW-4 (18234)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
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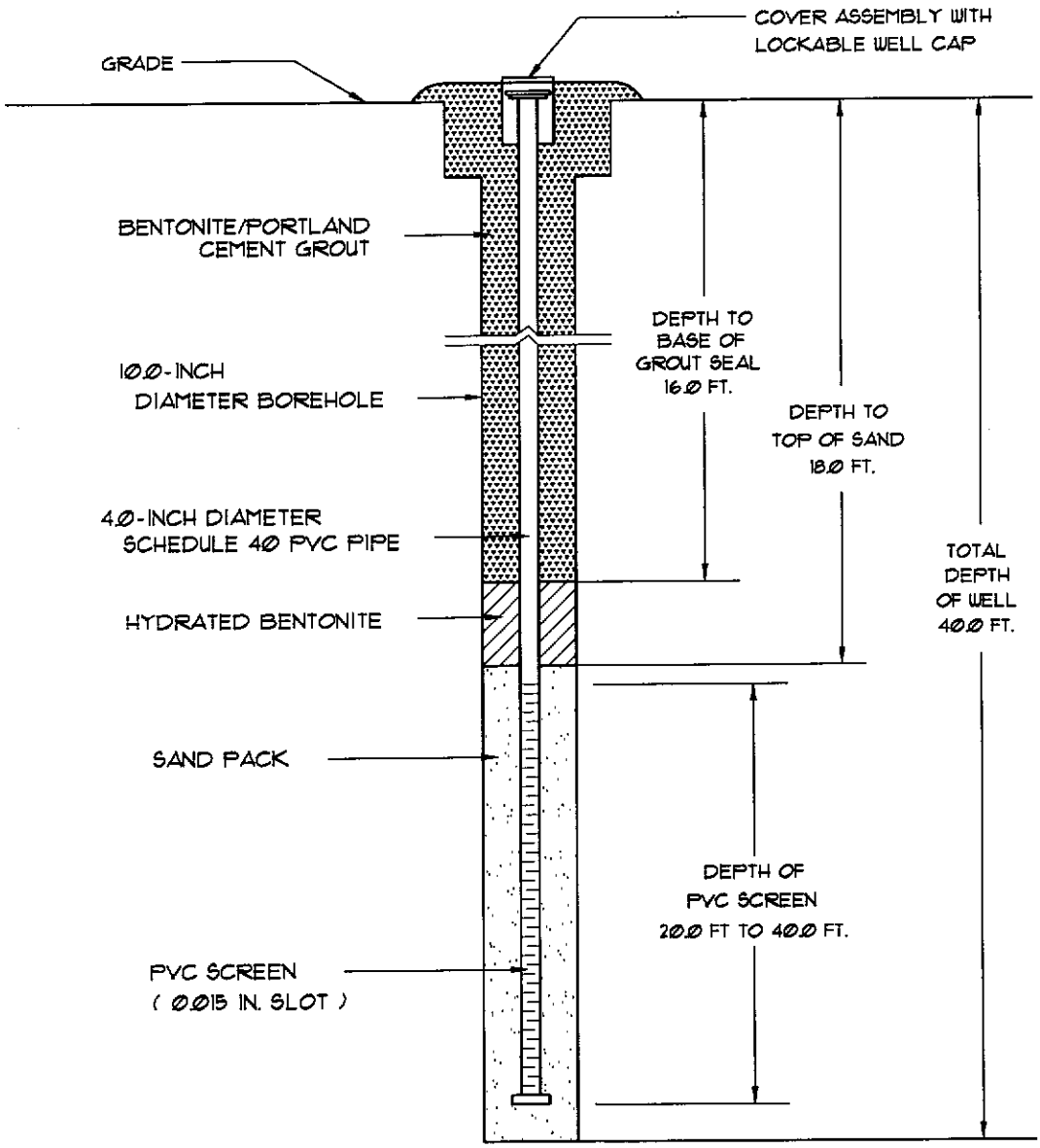
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	RW-4 (14324)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Pobing Services
Driller: T. Bolyard S.C. I.D. #: B 01846	
Logged By:	T. Elder

Prepared By:
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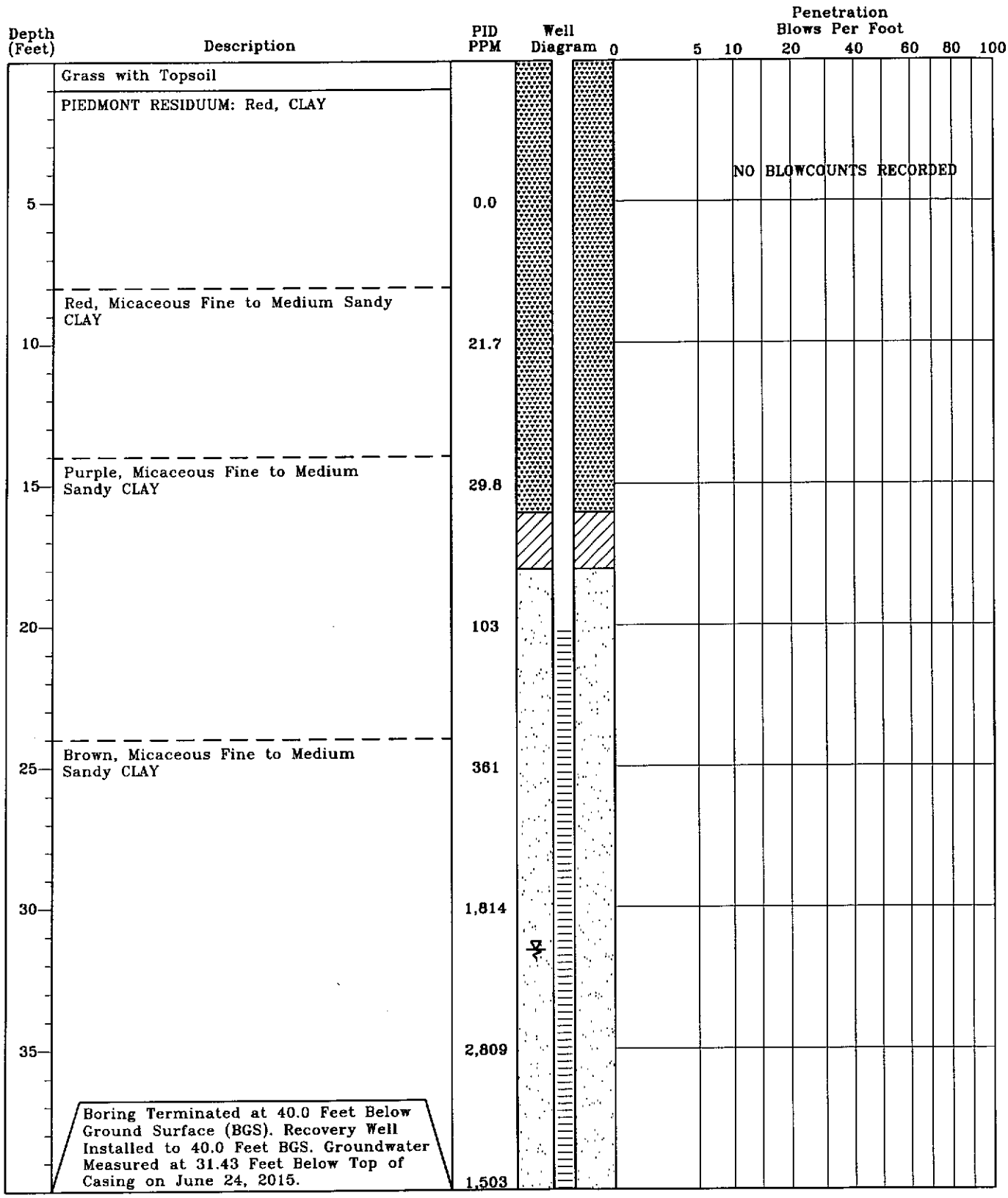
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	RW-5 (18234)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
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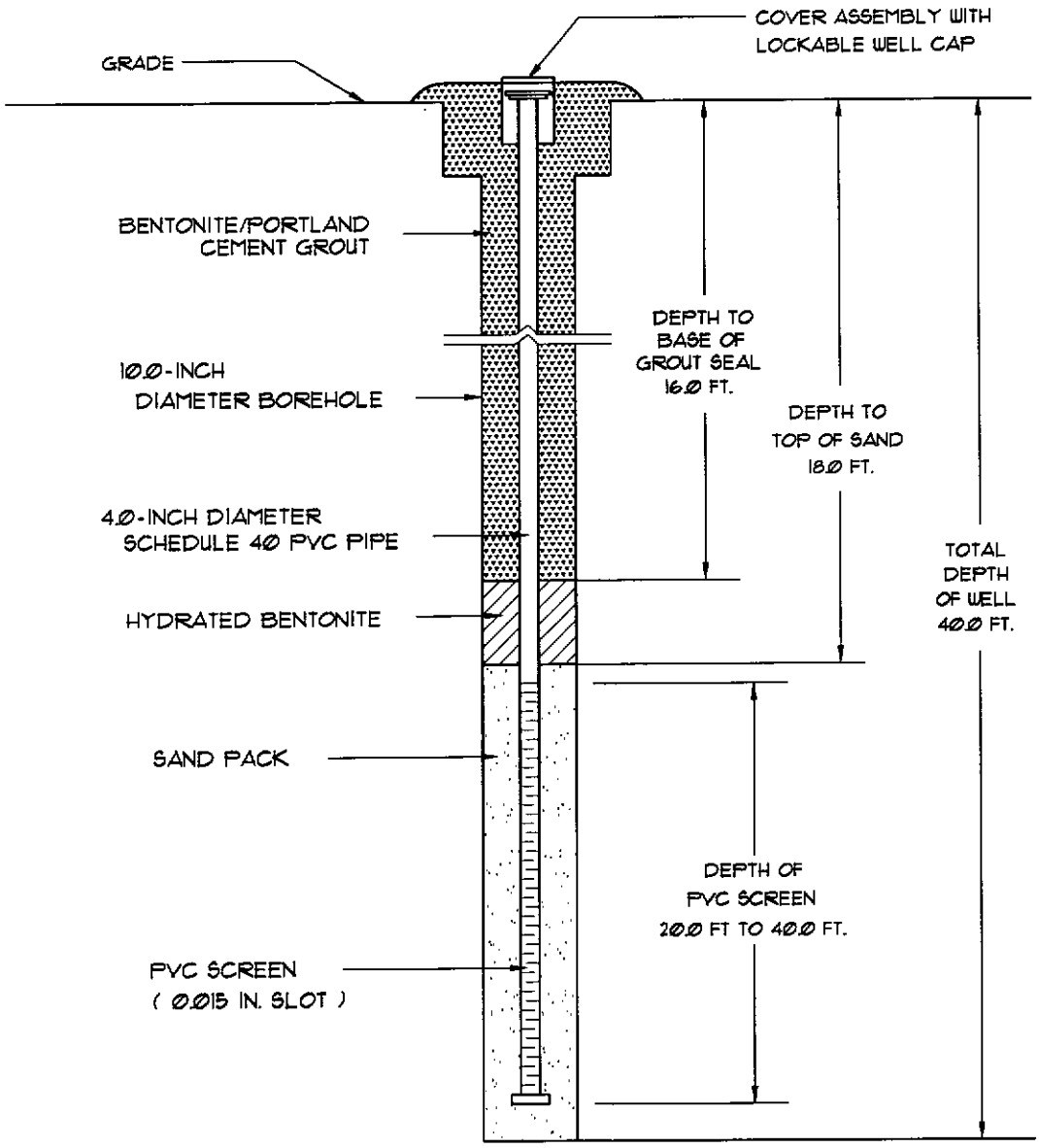
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

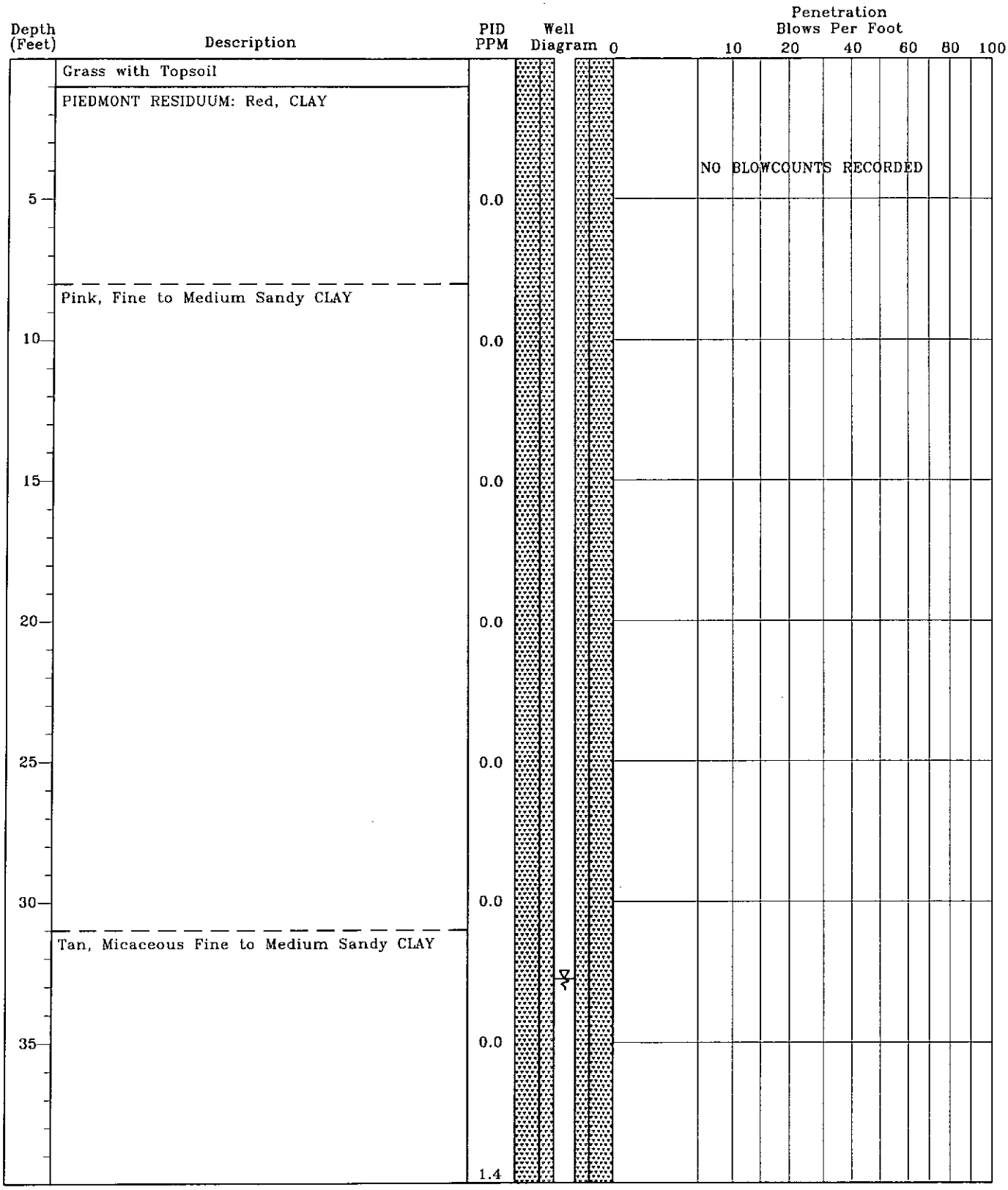
MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	RW-5 (14324)
Date Drilled:	06/11/2015
Drilled By:	Environmental Drilling & Pobing Services
Driller: T. Bolyard S.C. I.D. #: B 01846	
Logged By:	T. Elder

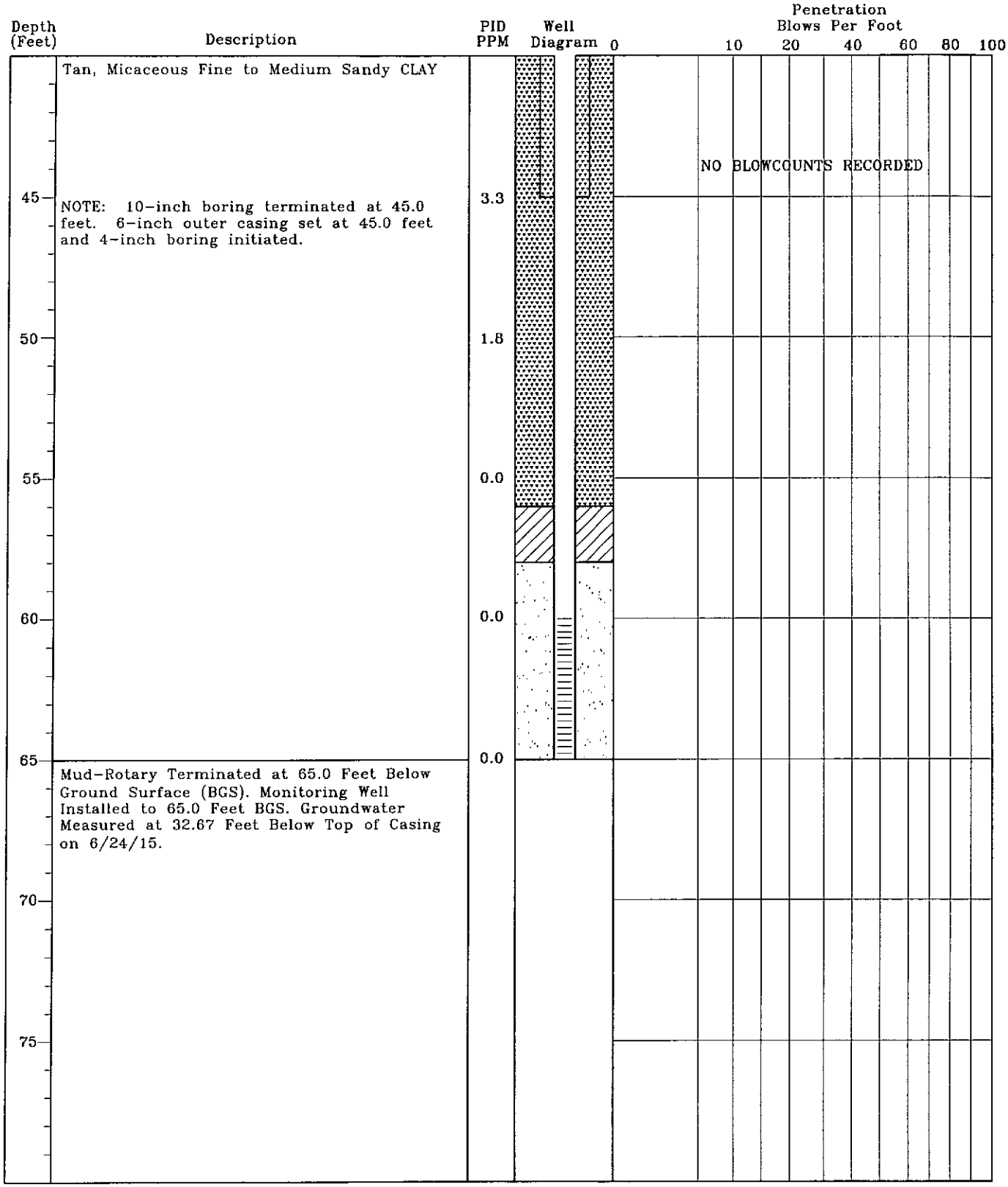
Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	DW-1 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



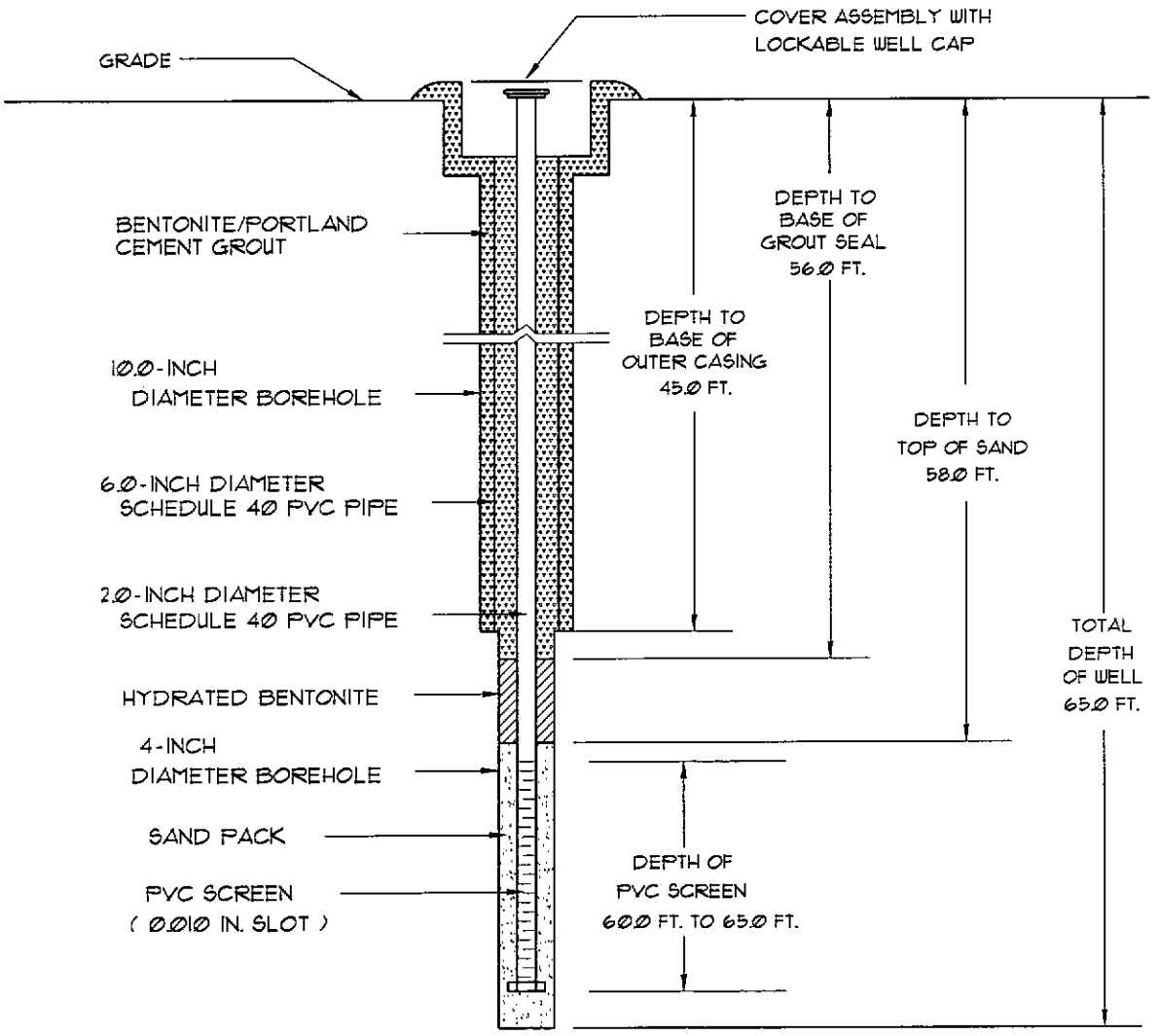
TEST BORING RECORD
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171

Boring Number:	DW-1 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 15-5171



Well Number:	DW-1 (14324)
Date Drilled:	6/9/2015
Drilled By:	Environmental Drilling & Probing Services.
Driller: T. Boylard S.C. I.D. #: 01846	
Logged By:	T. Elder

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-19R

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	14.5	15.0
Pink, Sandy CLAY	15.0	30.0
Tan, Sandy CLAY	10.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-19R

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 6/9/2015 Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 34.08 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-20

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Pink, Sandy CLAY	20.0	30.0
Tan, Sandy CLAY	10.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-20

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
40.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 34.08 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-21

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Pink, Sandy CLAY	20.0	30.0
Tan, Sandy CLAY	10.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-21

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
40.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 30.96 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 ☐ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-22

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Pink, Sandy CLAY	20.0	30.0
Tan, Sandy CLAY	10.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-22

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
40.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 33.10 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 ☐ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-23

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Pink, Sandy CLAY	12.0	22.0
Brown, Sandy CLAY	10.0	32.0
Tan, Sandy CLAY	8.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-23

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
40.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 35.71 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-24

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Brown, Sandy CLAY	5.0	15.0
Purple, Sandy CLAY	10.0	25.0
Tan, Sandy CLAY	15.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-24

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 6/9/2015 Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.57 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte, NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-25

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Black, SAND	5.0	15.0
Red, Sandy CLAY	25.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-25

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
40.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.57 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-26

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Tan, Sandy CLAY	5.0	15.0
Purple, SAND	25.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: MW-26

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: UMW-25945

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
40.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 32.86 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/8/15

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

D H E C
PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29021-1708
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** DW-1

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	7.5	8.0
Pink, Sandy CLAY	25.0	33.0
Tan, Sandy CLAY	32.0	65.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
DW-1

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/9/2015
65.0 ft. Date Completed: 6/9/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
6.0 in. to 45.0 ft. depth
2.0 in. to 65.0 ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 5.0
Set Between: 60.0 ft. and 65.0 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 32.67 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 ☐ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 65.0 ft. to 58.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 56.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/15

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** RW-1

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, Sandy CLAY	4.5	5.0
Tan, Sandy CLAY	10.0	15.0
Purple, Sandy CLAY	25.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
RW-1

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other-Auger

7. PERMIT NUMBER: UWM-25945

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/11/2015
40.0 ft. Date Completed: 6/11/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 inch
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 20.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 Inch
Slot/Gauge: .015 Length: 20.0 Feet
Set Between: 20.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.94 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 40.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 16.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte, NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/2015

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** RW-2

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	4.5	5.0
Black, Sandy CLAY	10.0	15.0
Tan, Sandy CLAY	25.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
RW-2

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other-Auger

7. PERMIT NUMBER: UWM-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 6/11/2015 Date Completed: 6/11/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 inch
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 20.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 Inch
Slot/Gauge: .015 Length: 20.0 Feet
Set Between: 20.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 32.06 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 40.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 16.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/2015

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

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** RW-3

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	4.5	5.0
Red and Tan, Sandy CLAY	10.0	15.0
Red and Purple, Sandy CLAY	25.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
RW-3

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other-Auger

7. PERMIT NUMBER: UWM-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 6/11/2015 Date Completed: 6/11/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 inch
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 20.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 Inch
Slot/Gauge: .015 Length: 20.0 Feet
Set Between: 20.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.86 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 ☐ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 40.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 16.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte, NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/2015

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** RW-4

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Purple, Sandy CLAY	15.0	25.0
Brown, Sandy CLAY	15.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
RW-4

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UWM-25945

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/11/2015
40.0 ft. Date Completed: 6/11/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 inch
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 20.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 Inch
Slot/Gauge: .015 Length: 20.0 Feet
Set Between: 20.0 ft. and 40.0 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.62 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 ☐ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 40.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 16.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/2015

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** RW-5

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Grass	0.5	0.5
Red, CLAY	9.5	10.0
Purple, Sandy CLAY	15.0	25.0
Brown, Sandy CLAY	15.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: RW-5

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - Auger

7. PERMIT NUMBER: UWM-25945

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 6/11/2015 Date Completed: 6/11/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 inch
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 20.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 Inch
Slot/Gauge: .015 Length: 20.0 Feet
Set Between: 20.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.43 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 40.0 ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 16.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) 17538 Greenhill Road Charlotte, NC 28278
Level: A B C D (circle one)
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/2015

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29654-0000
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: Former Red Diamond
Street Address: 519 East North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW-19

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 0.0 ft. to 45.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Water Well Abandoned by		
Environmental Drilling and		
Probing Services, LLC via tremie		
pipe with Approximately 7.50		
Gallons of Portlant-Bentonite		
Cement Slurry.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-19

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: 14324

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 6/11/2015
45.0 ft. Date Completed: 6/11/2015

10. CASING: ☐ Threaded ☐ Welded
Diam.: _____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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 ☐ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 45.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 7/9/15

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

APPENDIX F:

AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

(Not Applicable)

APPENDIX G:
DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

July 9, 2015

Re: Treatment of Purge Water
Former Red Diamond
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 15-5171

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 30 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.

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

A total of 125.0 gallons was disposed on June 12th, 2015, during the development of the newly installed monitoring wells.

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.

Kyle V. Pudney
Project Biologist

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 1385917

Customer Name MIDLANDSENVIRON MIDLANDS ENVI
Ticket Date 06/10/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile VA2718 (SOIL FROM UST ASSESSMENT)
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT
Vehicle# 1
Container
Driver
Check#
Billing # 0000469
Gen EPA ID

Volume

	Time	Scale	ScaleMaster
In	06/10/2015 09:35:36	Inbound #2	Dwayne
Out	06/10/2015 09:48:11	Outbound	Dwayne

Gross	12060 lb
Tare	9280 lb
Net	2780 lb
Tons	1.39

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	1.39	Tons				32-LEXINGT
2	FUEL-Fuel Surcharg	100		%				32-LEXINGT
3	EVF-P-Standard Env	100		%				32-LEXINGT
4	RCR-P-Regulatory C	100		%				32-LEXINGT

Former Red Diamond

Total Fees
Total Ticket

IGNATURE Tom Orr

3WM

SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	
EXPIRATION DATE **December 11, 2016**	*Richland Landfill* 1047 Highway Church Road Elgin, SC 29045 Special Waste Phone: 803-744-3345 Fax: 866-904-7194

Prepared by: Sandra Reeves

GENERATOR OF WASTE: MIDLANDS ENV. CONSULTANTS, INC. - VARIOUS

CUSTOMER: MIDLANDS ENV. CONSULTANTS, INC. ACCOUNT NUMBER: 820-469

LOCATION OF WASTE:

CITY: COUNTY:

PHONE NUMBER: 803-808-2043 CONTACT: LYNN SHANE

FAX NUMBER: 803-808-2048

GENERATOR'S SIGNATURE [signature] DATE: 6-10-15

TRANSPORTER OF WASTE: [signature]

DATE: 6-10-15 TRUCK NUMBER: 1

DRIVER'S SIGNATURE [signature]

**** TO BE COMPLETED BY RICHLAND LANDFILL******

DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC

DESCRIPTION OF WASTE: SOIL FROM UST ASSESSMENT Waste Class: SOIL

TICKET NUMBER: 1385917 TONNAGE: 1.39

RECEIVED BY: DM

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 1386503

Customer Name	MIDLANDSENVIRON MIDLANDS ENVI	Carrier	MIDLANDSENVIRON MIDLANDS ENVIRONMENT
Ticket Date	06/12/2015	Vehicle#	1
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000469
State Waste Code		Gen EPA ID	
Manifest	0		
Destination			
PO			
Profile	VA2718 (SOIL FROM UST ASSESSMENT)		
Generator	126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL		

	Time	Scale	ScaleMaster		
In	06/12/2015 14:14:00	Inbound #2	Dwayne	Gross	14740 lb
Out	06/12/2015 14:41:45	Outbound	Dwayne	Tare	9360 lb
				Net	5380 lb
				Tons	2.69

Comments

WM WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	2.69	Tons				32-LEXINGT
2	FUEL-Fuel Surcharg	100		%				32-LEXINGT
3	EVF-P-Standard Env	100		%				32-LEXINGT
4	RGR-P-Regulatory C	100		%				32-LEXINGT

Former Red Diamond

Total Fees
Total Ticket

SIGNATURE Tom Ea

403WM

SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	*Richland Landfill* 1047 Highway Church Road Elgin, SC 29045
EXPIRATION DATE **December 11, 2016**	Special Waste Phone: 803-744-3345 Fax: 866-904-7194
Prepared by:	Sandra Reeves

GENERATOR OF WASTE: MIDLANDS ENV. CONSULTANTS, INC. - VARIOUS

CUSTOMER: MIDLANDS ENV. CONSULTANTS, INC. ACCOUNT NUMBER: 820-469

LOCATION OF WASTE: Lexington

CITY: Lexington COUNTY: Lexington

PHONE NUMBER: 803-808-2043 CONTACT: LYNN SHANE

FAX NUMBER: 803-808-2048

GENERATOR'S SIGNATURE [signature] DATE: 6-1-15

TRANSPORTER OF WASTE: Todd Elkins

DATE: 6-1-15 TRUCK NUMBER: 1

DRIVER'S SIGNATURE [signature]

**** TO BE COMPLETED BY RICHLAND LANDFILL******

DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC

Waste Class: SOIL

DESCRIPTION OF WASTE: SOIL FROM UST ASSESSMENT

TICKET NUMBER: 1386503 TONNAGE: 2.69

RECEIVED BY: DCM

APPENDIX H:

LOCAL ZONING REGULATIONS

(Not Applicable)

APPENDIX I:

FATE AND TRANSPORT MODELING

(Not Applicable)

APPENDIX J:
ACCESS AGREEMENTS

RECEIVED
MAY 13 2015
BY:.....

Midlands Environmental Consultants, Inc.

PERMISSION TO ENTER PROPERTY

I, Ann Laney, 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 Midlands Environmental Consultants, Inc.(MECI),and its agents, employees and subcontractors, and assigns the right to enter upon the property located at 519 East North First Street (Oconee County Tax Map Number 520-30-02-015) for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Installation of two (2) groundwater monitoring well(s);
- Installation of five (5) contamination recovery wells(s)
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months;
- Maintenance of the monitoring well(s).

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 MECI 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 MECI making reasonable restoration to the property resulting from MECI activities on the property.

Consented to giving access:

Ann Laney — 5-10-15
Property Owner's Signature — Date

Ann Laney — 5-10-15
Printed Name — Date

Access Denied:

_____ — _____
Property Owners Signature — Date

_____ — _____
Printed Name — Date

_____ — 4/21/15
MECI Representative

231 Dooley Rd.,Lexington, SC 29073 Telephone (803) 808-2043 * Fax (803) 808-2048

APPENDIX K:
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? (Appendix E)	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 B)			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? (Table 1)			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? (Tables 3 & 3A)			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			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? (Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			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? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			X
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)	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 K)	X		

Former Red Diamond UST# 14324

Kyle V. Pudney <kvp@meci.net>

Tue 11/29/2016 8:54 AM

To: Padgett, Joel P <padgetjp@dhec.sc.gov>;

1 attachments (359 KB)

IMG_20161128_130601351.jpg;

Joel,

We had some guys up near Seneca yesterday and they gauged the recovery wells along with a few other wells near the former tank basin at the Former Red Diamond. Please find the attached paperwork with product & water levels for recovery / monitoring wells. They found 0.23 feet of free phase petroleum product in MW-1, 0.24 feet in EP-4, 0.01 feet in RW-4, and 0.06 feet in RW-5. I made sure that they bailer checked each well to verify what the product level indicator was reading. Please let me know if you have any other questions about the gauging. Thanks and have a good day.



--

Kyle Pudney
Project Biologist
Midlands Environmental Consultants, Inc.
Office: 803-808-2043 ext. 3
Cell: 803-360-7365

State Lead Option





PERMISSION FORM

UNDERGROUND STORAGE TANK OWNER

UST Permit **#10778**

If you are the owner of the former or existing underground storage tanks for the release reported on December 3, 2014 or are designated as their authorized representative, but do not own the property, please complete this form.

I, Jenna Hodge certify that I am the legal owner of the former and/or existing underground storage tank(s) located at the facility identified below and for the release reported on December 3, 2014 or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor 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 the DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Division of Underground Storage Tank Management in writing.

Name of Facility Maruti Food Mart Inc. Phone # 843-305-9580

Street Address of Facility 15967 Hardee Whyte Blvd

Town, City, District, Suburb Hardeeville

Name of nearest intersecting street, road, highway, alley US Hwy 17 South of I-95 Exit 5

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

Does a public water or sewer utility service this facility? (yes or no) yes, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines N/A, phone number N/A

NAME of UST owner (Please Print): Jenna Hodge

Phone Number (home) 843-305-9580 (work)

Signature of UST Owner: Jenna Hodge

Witness: Willa Rogers

Date: November Month 30 Day 2016 Year

Former Red Diamond UST# 14324

Kyle V. Pudney <kvp@meci.net>

Tue 11/29/2016 8:54 AM

To: Padgett, Joel P. <padgetjp@dhec.sc.gov>;

1 attachments (359 KB)

IMG_20161128_130601351.jpg;

Joel,

We had some guys up near Seneca yesterday and they gauged the recovery wells along with a few other wells near the former tank basin at the Former Red Diamond. Please find the attached paperwork with product & water levels for recovery / monitoring wells. They found 0.23 feet of free phase petroleum product in MW-1, 0.24 feet in EP-4, 0.01 feet in RW-4, and 0.06 feet in RW-5. I made sure that they bailer checked each well to verify what the product level indicator was reading. Please let me know if you have any other questions about the gauging. Thanks and have a good day.

--
Kyle Pudney
Project Biologist
Midlands Environmental Consultants, Inc.
Office: 803-808-2043 ext. 3
Cell: 803-360-7365



dhec
Healthy People Healthy Communities

UST
UP Tech
DOCKETING

DEC 20 2017

MR ANTHONY SMITH
146 EMERALD ROAD
SENECA SC 29678

Re: Letter of Concern
UST – Unknown 14324, 519 East North 1st St., Seneca, SC
UST Permit #14324
Phone Request received December 20, 2017
Oconee County

Dear Mr. Smith:

In response to your request for information about environmental conditions and liability associated with the referenced facility, the following is provided.

On behalf of the South Carolina Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division received a report December 30, 1992 documenting petroleum chemicals of concern in the subsurface in the vicinity of the former USTs. DHEC records reveal that three (3) USTs owned by Betty Lathem (Trustee), were abandoned by removal in December 1991. There are currently no known USTs in operation at the referenced facility.

In response to the initial report of petroleum chemicals of concern, the UST Management Division directed Betty Lathem as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. This scope of work has been completed. Remediation of the contaminants is ongoing. In the near future groundwater monitoring and additional remediation work will be required.

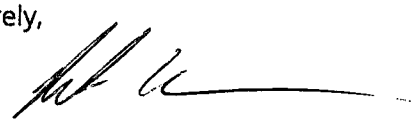
The UST Management Division would also like to clarify for you the financial and liability issues surrounding the petroleum chemicals of concern at this facility. The release of petroleum products from the UST is qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs up to $1,000,000 can be paid by the SUPERB Account for site rehabilitation actions associated with this release.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

The UST Management Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by DHEC should not cause any damage to existing structures, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If you have any further questions or concerns, please contact me at (803) 898-0671 or email dunnra@dhec.sc.gov. For specific details in regards to ongoing remediation of the former facility please contact Oconee County Project Manager Adam Looper at (803) 898-0631 or email looperam@dhec.sc.gov.

Sincerely,



Robert A. Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Midlands Environmental Consultants, Inc., P.O. Box 254, Lexington, SC 29071
Technical File

dhec
Healthy People. Healthy Communities.



MAR 2 1 2018

MS BETTY LATHEM, TRUSTEE
2 STRATTON PLACE
GREENVILLE, SC 29615-4217

Re: Site Specific Work Plan (SSWP) Directive for GroundwaterSampling
Unknown UST 14324, 519 E N 1st Street, Seneca, SC
UST Permit #14324
Release reported December 30, 1991
Monitoring Report received July 13, 2015
Oconee County

Dear Ms. Lathem:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with your contractor's Annual Contractor Quality Assurance Plan (ACQAP), the most recent revision of the UST Quality Assurance Program Plan (QAPP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 foot radius of the site and analyzed for Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene, MtBE, the 8 Oxygenates, 1,2-DCA, and EDB. All wells should be purged prior to sample collection.

Your contractor must complete the SSWP and Cost Proposal and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment

Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #14324. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0607, by fax at (803) 898-0673, or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

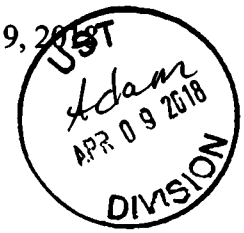
Ashleigh Thrash

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

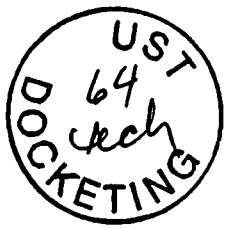
Cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071
Technical Files

Midlands Environmental Consultants, Inc.

April 9, 2018



Ms. Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Site-Specific Work Plan
Unknown UST 14324 (Former Red Diamond)
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 18-6368
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Gladden,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On April 5, 2018, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

To: Ms. Ashleigh Thrash (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Unknown UST 14324 (Former Red Diamond) UST Permit #: 14324
Facility Address: 519 East North 1st Street, Seneca, SC
Responsible Party: Ms. Betty Lathem Phone: 864-288-6480
RP Address: 2 Stratton Place, Greenville, SC 29615
Property Owner (if different): Anthony Smith
Property Owner Address: 146 Emerald Road, Seneca, SC 29678
Current Use of Property: Vacant Lot

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

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ 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.)

____ Soil	____ Water Supply Wells	____ Air	1 Field Blank
25 Monitoring Wells	____ Surface Water	2 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: ____ Estimated Footage: ____ feet per point
# of deep points proposed: ____ Estimated Footage: ____ feet per point
Field Screening Methodology: ____

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 #: 14324 Facility Name: Unknown UST 14324 (Former Red Diamond)

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 4/9/2018 Field Work Completion: 5/9/2018
Report Submittal: 6/9/2018 # of Copies Provided to Property Owners: 0

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

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 200.0 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, monitoring wells MW-1, MW-3, MW-4, EP-4 and EP-12were unable to be located MECI will utilize additional personnel during sampling activities in order to hopefully find these wells.

-Considering the last time a comprehensive sampling event was performed circa 2015, MECI recommends purging all wells prior to sampling.

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: _____

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

None 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Unknown UST 14324 (Former Red Diamond)

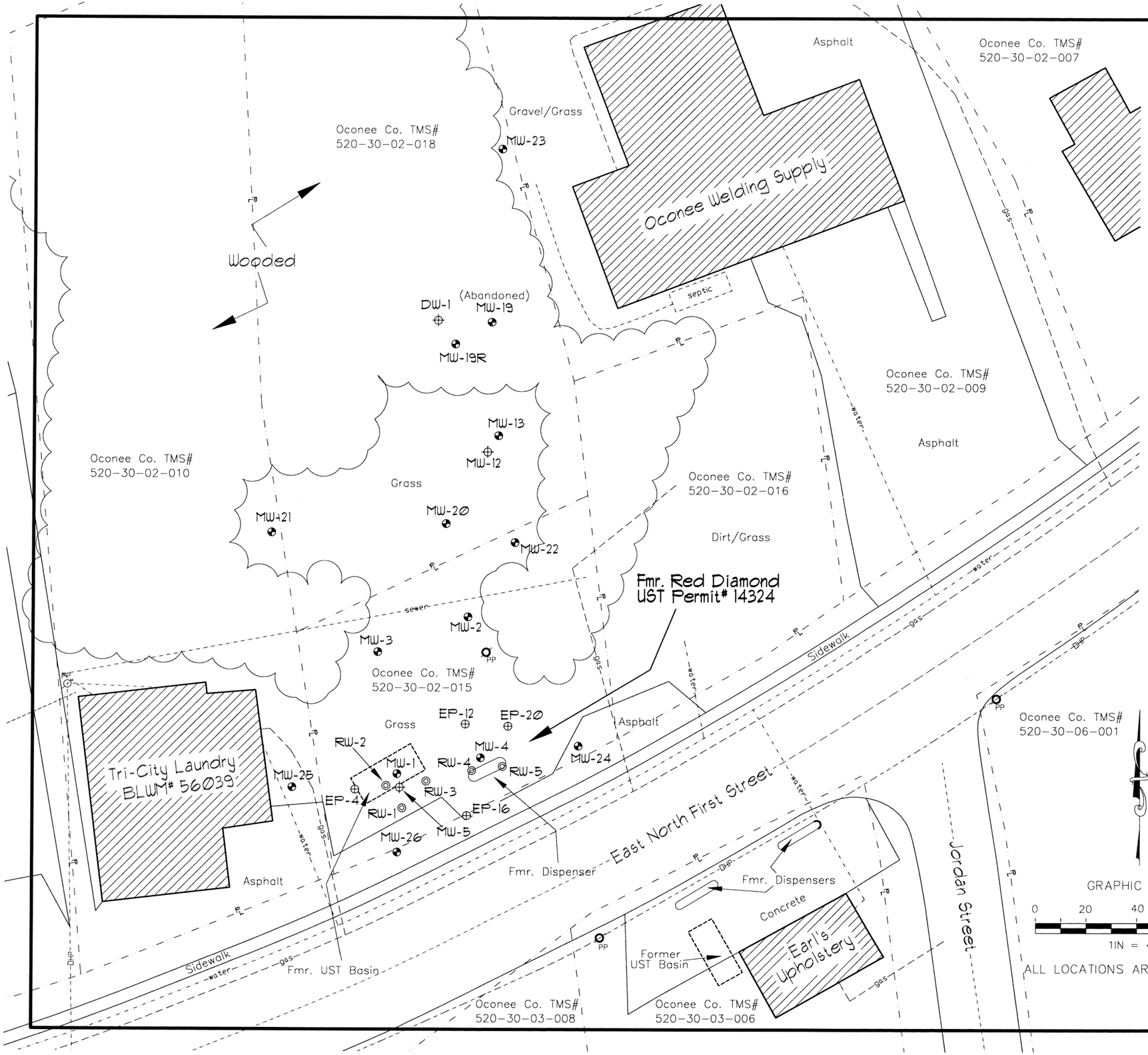
UST Permit #: 14324 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	3	each	$423.00	$1,269.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	25	per well/receptor	$60.00	$1,500.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater No Purge or Duplicate	2	per well/receptor	$28.00	$56.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60
I. Groundwater (low flow purge)		per well/receptor	$91.00	$0.00

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	28	per sample	$122.00		$3,416.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead	27	per sample	$16.00		$432.00
F1. EDB by EPA 8011		per sample	$45.20		$0.00
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N. EDB (504.1)		per sample	$79.50		$0.00
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	200	gallon	$0.56		$112.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal		ton	$60.00		$0.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	12%	percent	$6,959.60		$835.15
TOTAL					$7,794.75

DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- DHP — Overhead Power
- PL — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 18-6368
DATE April 9, 2018
FIGURE 2

dhec
Healthy People. Healthy Communities.

UST 65 Week DOCKETING

MS BETTY LATHEM, TRUSTEE
2 STRATTON PLACE
GREENVILLE, SC 29615-4217

MAY 0 8 2018

Re: Site-Specific Work Plan (SSWP)Approval and Groundwater Sampling Directive
Unknown UST 14324, 519 E N 1st Street, Seneca, SC
UST Permit #14324; CA #56960
Release Reported December 30, 1991
SSWP and cost proposal received April 9, 2018
Oconee County

Dear MsLathem:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced SSWPsubmitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The groundwater sampling event should begin immediately upon receipt of this letter.The Cost agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement:

The cost agreement submitted by your contractor included 27 sample analysis for lead, line item 11.E1 of the cost agreement worksheet, which the Department did not ask for in the SSWP request. The Department did include analysis for EDB, line item 11.F1 of the cost agreement worksheet. Therefore, the cost agreement worksheet has been revised to reflect these changes.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs

that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. 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 #14324. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0607, by fax at (803) 898-0673, or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

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

enc: Approved Cost Agreement (ACA)

cc: Midlands Environmental Consultants, Inc, PO Box 854, Lexington, SC 29071 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement 56960

Facility: 14324 UST - UNKNOWN 14324

LOOPERAM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	3 0000	$423.000	1,269.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	25.0000	$60.000	1,500.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2.0000	$28.000	56.00
		H1	FIELD BLANK	1.0000	$24.600	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	28 0000	$122.000	3,416.00
		F1	EDB BY 8011	27 0000	$45.200	1,220.40
17 DISPOSAL						
		AA	WASTEWATER	200.0000	$0.560	112.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	$7,748.000	929.76
				Total Amount		8,677 76

Document Receipt Information

☒ **Hard Copy** ☑ **CD** ☐ **Email**

Date Received 8-10-18

Permit Number 14324

Project Manager Bryan Agee

Name of Contractor MEC+

UST Certification Number _____

Docket Number 664ECh

Scanned _____

CWS / Chemical Analyses

REPORT OF GROUNDWATER SAMPLING AND CHEMICAL ANALYSIS

Former Red Diamond (Unknown UST 14324)
519 East North 1st Street
Seneca, South Carolina
SCDHEC SITE ID 14324
CA # 56960

Prepared By:

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

June 26, 2018

MECI Project No. 18-6368

Midlands Environmental Consultants, Inc.

June 26, 2018

Ms. Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling and Chemical Analysis
Former Red Diamond (Unknown UST 14324)
519 East North 1st Street
Seneca, South Carolina
SCDHEC Site ID# 14324, CA# 56960
MECI Project Number 18-6368
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Thrash,

On behalf of Ms. Betty Lathem (Trustee), Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling and Chemical Analyses for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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1.0 INTRODUCTION

A. **Owner/Operator Information**

Facility Name:	Unknown UST 14324	UST Permit #:	14324
Facility Address:	519 E N 1st Street, Seneca, SC 29678		
Name:	Ms. Betty Lathem		
Address:	2 Stratton Place, Greenville, SC 29615-4217		
Telephone #:	(864) 288-6480		

B. **Property Owner Information**

Name	Anthony H. Smith
Tax Map #:	Oconee County Tax Map#: 520-30-02-015
Address	146 Emerald Road, Seneca, SC 29678
Telephone #	(864) 882-4376

C. **Contractor Information**

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

D. **SCDHEC Certified Well Driller**

Name:	N/A
Driller:	N/A
Certification #:	N/A
Address:	N/A
Telephone #:	N/A

E. **SCDHEC Certified Laboratory**

Name:	Pace Analytical Services, Inc.
Certification #:	99006001
Address:	9800 Kincey Avenue, Suite 100, Huntersville, NC 28078
Telephone #:	(704) 875-9092

1.1 PROJECT INFORMATION

The subject site (Former Red Diamond/UST Unknown 14324) is located at 519 East North 1st Street in Seneca, Oconee County, South Carolina (See Figure 1). The site is currently a vacant lot. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
2	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
3	500 Gal. Kerosene	Abandoned	Removed (12/19/1991)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in December of 1991. This release was subsequently confirmed

in March of 1992 and has been ranked a class 3BA due to free phase petroleum product historically being detected in onsite monitoring wells at a thickness greater than 0.01' foot.

The above information is based on reports and correspondence obtained from MECI files and SCDHEC files.

2.0 SURROUNDING PROPERTY USAGE

The subject site is currently a vacant lot located within the town limits of Seneca, Oconee County, South Carolina. East North 1st Street forms the southern property boundary, beyond which are commercial properties to include a former gasoline service station (Earl's Upholstery). East of the site is a vacant commercial lot, beyond which is Oconee Welding Supply and additional commercial properties. West of the site is bordered by a dry cleaning facility (Tri-City Cleaners/BLWM# 56039), beyond which are commercial properties. North of the site is an open grass lot and wooded areas, beyond which are residential properties.

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property, as depicted on the local USGS quadrangle (Seneca, South Carolina), appears to be approximately 960 feet above sea level. The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Oconee County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial aquifer. After the water has reached the surficial aquifer, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on the hydraulic gradient) of groundwater flow from the release is to the north, toward drainage features associated with the Cane Creek.

3.1 LOCAL SUBSURFACE CONDITIONS

Piedmont Residual soils were encountered during drilling activities conducted at the site. The soils encountered in our borings generally consisted of medium to coarse grained sandy clays near surface which were underlain by clayey medium to coarse grained sands.

On May 30, 2018 stabilized groundwater levels were measured in the wells. Depth to groundwater ranged from 26.48 to 34.80 feet from the top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- comprehensive sampling of the entire well network; and,
- chemical analyses of groundwater samples.

4.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On May 30, 2018, MECI personnel collected groundwater samples from sixteen (16) wells at the subject site. Three (3) monitoring wells were gauged during sampling activities. Monitoring well MW-23 was gauged and determined to be dry. Wells MW-26 and EP-4 were gauged and determined to contain measurable free phase petroleum product. Monitoring wells MW-1, MW-4, MW-21, RW-1, and EP-12 were unable to be located and believed to be destroyed by recent clearing and grading activities which have occurred onsite. Monitoring well MW-3 was found to be abandoned during the sampling event. At the request of SCDHEC, all monitoring wells were to be purged prior to sample collection. Sixteen (16) monitoring wells were purged prior to sampling.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of Standard Operating Procedures. Groundwater samples obtained were sent to Pace Analytical of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1						X							
MW-2	X						X	X	X	X			
MW-3					X								
MW-4						X							
MW-5	X						X	X	X	X			
MW-12	X						X	X	X	X			
MW-13	X						X	X	X	X			
MW-19R	X						X	X	X	X			
MW-20	X						X	X	X	X			
MW-21						X							
MW-22	X						X	X	X	X			
MW-23			X										
MW-24	X						X	X	X	X			
MW-25	X						X	X	X	X			
MW-26			X										
DW-1	X						X	X	X	X			
RW-1						X							
RW-2	X						X	X	X	X			
RW-3	X						X	X	X	X			
RW-4	X						X	X	X	X			
RW-5	X						X	X	X	X			
EP-4			X										
EP-12						X							
EP-16	X						X	X	X	X			
EP-20	X						X	X	X	X			
DUP-1(MW-13)		X					X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dicloroethane
EDB = Ethylene Dibromide

The results of the laboratory analyses are summarized in Table 3 and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 119.0 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

5.1 GROUNDWATER ANALYTICAL RESULTS

As discussed in Section 4.1, groundwater samples obtained from the monitoring wells during the May 30, 2018 comprehensive groundwater sampling event were analyzed for dissolved phase petroleum constituents. Free phase petroleum product was encountered in wells MW-26 and EP-4. The analytical results indicate petroleum impact to the surficial aquifer ("Shallow" Zone) and the "deep" aquifer, with the highest dissolved concentrations being detected in the area of RW-4 and RW-5. Of the sixteen wells sampled, fourteen wells (MW-2, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, DW-1, RW-2, RW-3, MW-4, RW-5, EP-16, and EP-20) MW-2, RW-1 & RW-2) detected petroleum constituents above Risked Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

Compound	*RBSL/SCAL (ug/l)*	*Wells Above RBSL*
Product	>0.01	MW-26 & EP-4
Benzene	5	MW-2, MW-12, MW-13, MW-20, MW-22, MW-24, DW-1, RW-3, RW-4, RW-5, EP-16 & EP-20
Toluene	1,000	MW-2, MW-12, MW-13, DW-1, RW-3, RW-4, RW-5, EP-16, EP-20
Ethylbenzene	700	MW-2, MW-12, RW-1, RW-2, RW-3, RW-4, RW-5, EP-16
Total Xylenes	10,000	MW-2, RW-3, RW-4, RW-5, EP-16, EP-20
Naphthalene	25	MW-2, MW-12, MW-13, DW-1, RW-2, RW-3, RW-4, RW-5, EP-16, & EP-20
MTBE	40	None
1,2 DCA	5	MW-24 & RW-4
EDB	0.05	MW-2, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, DW-1, RW-3, RW-4, RW-5EP-16, EP-20
Lead	15	Not Requested for Analysis
TAA	240	None
TAME	128	None
ETBA	NE	RBSL Not Established
TBA	1,400	None
TBF	NE	RBSL Not Established
DIPE	150	RW-4 & EP-20
Ethanol	10,000	None
ETBE	47	None

The results of the analyses for each monitoring well and specific parameters are listed on Table 3 and provided in Appendix B.

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS

Based on the results of our sampling activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The highest concentrations of dissolved phase contaminants appear to be located in the vicinity of former UST system. The contaminants appear to

be gasoline range constituents. Impacted groundwater appears to be moving in a northly direction towards the Cane Creek.

Free phase petroleum product was encountered in wells MW-26 and EP-4. The analytical results indicate petroleum impact to the surficial aquifer ("Shallow" Zone) and the "deep" aquifer, with the highest dissolved concentrations being detected in the area of RW-4 and RW-5. Of the sixteen wells sampled, fourteen wells (MW-2, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, DW-1, RW-2, RW-3, MW-4, RW-5, EP-16, and EP-20) MW-2, RW-1 & RW-2) detected petroleum constituents above Risked Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

Compound	*RBSL/SCAL (ug/l)*	*Wells Above RBSL*
Product	>0.01	MW-26 & EP-4
Benzene	5	MW-2, MW-12, MW-13, MW-20, MW-22, MW-24, DW-1, RW-3, RW-4, RW-5, EP-16 & EP-20
Toluene	1,000	MW-2, MW-12, MW-13, DW-1, RW-3, RW-4, RW-5, EP-16, EP-20
Ethylbenzene	700	MW-2, MW-12, RW-1, RW-2, RW-3, RW-4, RW-5, EP-16
Total Xylenes	10,000	MW-2, RW-3, RW-4, RW-5, EP-16, EP-20
Naphthalene	25	MW-2, MW-12, MW-13, DW-1, RW-2, RW-3, RW-4, RW-5, EP-16, & EP-20
MTBE	40	None
1,2 DCA	5	MW-24 & RW-4
EDB	0.05	MW-2, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, DW-1, RW-3, RW-4, RW-5EP-16, EP-20
Lead	15	Not Requested for Analysis
TAA	240	None
TAME	128	None
ETBA	NE	RBSL Not Established
TBA	1,400	None
TBF	NE	RBSL Not Established
DIPE	150	RW-4 & EP-20
Ethanol	10,000	None
ETBE	47	None

The results of the analyses for each monitoring well and specific parameters are listed on Table 3 and provided in Appendix B.

Figure 4 depicts graphically the concentrations of Total BTEX dissolved in the surficial aquifer at the site. Figure 4A presents the analytical results for the eight Oxygenates dissolved in the groundwater at the subject site.

Based on current analytical results, the contaminant plume emanating from the subject site does not appear to be defined horizontally or vertically. Since the March 2015 groundwater sampling event, concentrations of petroleum compounds detected have generally increased with free phase petroleum product appearing in monitoring well MW-26 at a thickness of 0.10 feet and in well EP-4 at a thickness of 0.11 feet. MECI recommends a Tier II Assessment be conducted to define the release of petroleum product horizontally and vertically. MECI also recommends several extended AFVR events be performed on wells MW-26, EP-4, and all recovery wells to remove free phase petroleum product and to reduce elevated CoC concentrations.

7.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of the Ms. Betty Latham, SCDHEC, and MECI under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

TABLE 2
POTENTIOMETRIC DATA
MAY 30, 2018 SAMPLING EVENT
FORMER RED DIAMOND (UNKNOWN UST #14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 18-6368
SCDHEC SITE ID NUMBER 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-1	8/10/2013	25-40	---	26.50	---	98.32	71.82
	11/6/2013		---	26.77	---		71.55
	3/12/2015		---	27.31	---		71.01
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
MW-2	8/10/2013	30-40	---	29.00	---	98.60	69.60
	11/6/2013			28.20			70.40
	3/12/2015		---	29.46	---		69.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	31.01	---		67.59
MW-3	8/10/2013	30-40	---	27.80	---	97.92	70.12
	11/6/2013			27.12			70.80
	3/12/2015		---	28.07	---		69.85
	6/24/2015		---	NM	---		NM
	5/30/2018		---	ABANDONED	---		ABANDONED
MW-4	8/10/2013	30-40	---	28.34	---	99.07	70.73
	11/6/2013		---	NS	---		NS
	3/12/2015		---	28.81	---		70.26
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
MW-5	8/10/2013	60-65	---	27.26	---	98.03	70.77
	11/6/2013		---	26.78	---		71.25
	3/12/2015		---	27.89	---		70.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	29.29	---		68.74
MW-8	8/10/2013	N/A	---	37.08	---	N/A	N/A
	11/6/2013		---	36.44	---		N/A
	3/12/2015		---	ABANDONED	---		ABANDONED
MW-12	8/10/2013	60-65	---	32.22	---	99.12	66.90
	11/6/2013		---	31.10	---		68.02
	3/12/2015		---	32.55	---		66.57
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.75	---		64.37
MW-13	8/10/2013	36-46	---	32.03	---	99.41	67.38
	11/6/2013		---	31.45	---		67.96
	3/12/2015		---	34.15	---		65.26
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.41	---		65.00
MW-19	8/10/2013	35-45	---	33.20	---	99.58	66.38
	11/6/2013		---	31.73	---		67.85
	3/12/2015		---	OBSTRUCTION	---		OBSTRUCTION
	6/24/2015		---	ABANDONED	---		ABANDONED
MW-19R	6/24/2015	30-40	---	34.08	---	99.09	65.01
	5/30/2018		---	34.80	---		64.29
MW-20	6/24/2015	30-40	---	33.92	---	98.30	64.38
	5/30/2018		---	32.30	---		66.00
MW-21	6/24/2015	30-40	---	30.96	---	95.58	64.62
	5/30/2018		---	NL	---		NL
MW-22	6/24/2015	30-40	---	33.10	---	99.03	65.93
	5/30/2018		---	31.43	---		67.60
MW-23	6/24/2015	30-40	---	35.71	---	104.14	68.43
	5/30/2018		---	DRY	---		DRY
MW-24	6/24/2015	30-40	---	33.30	---	100.19	66.89
	5/30/2018		---	31.90	---		68.29
MW-25	6/24/2015	30-40	---	31.57	---	95.40	63.83
	5/30/2018		---	26.48	---		68.92
MW-26	6/24/2015	30-40	---	32.86	---	98.46	65.60
	5/30/2018		29.42	29.52	0.10		69.03
DW-1	6/24/2015	60-65	---	32.67	---	98.63	65.96
	5/30/2018		---	34.19	---		64.44
RW-1	6/24/2015	20-40	---	31.94	---	98.64	66.70
	5/30/2018		---	NL	---		NL
RW-2	6/24/2015	20-40	---	32.06	---	98.74	66.68
	5/30/2018		---	29.45	---		69.29
RW-3	6/24/2015	20-40	---	31.86	---	98.73	66.87
	5/30/2018		---	29.39	---		69.34
RW-4	6/24/2015	20-40	---	31.62	---	99.31	67.69
	5/30/2018		---	30.60	---		68.71
RW-5	6/24/2015	20-40	---	31.43	---	99.52	68.09
	5/30/2018		---	30.90	---		68.62
EP-4	8/10/2013	20-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	27.70	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		29.13	29.24	0.11	Unknown	Unknown
EP-12	8/10/2013	20-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	29.73	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	NL	---	Unknown	Unknown
EP-16	8/10/2013	TD: 34.35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	28.99	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	30.53	---	Unknown	Unknown
EP-20	8/10/2013	13-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	29.58	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	31.02	---	Unknown	Unknown

Notes:

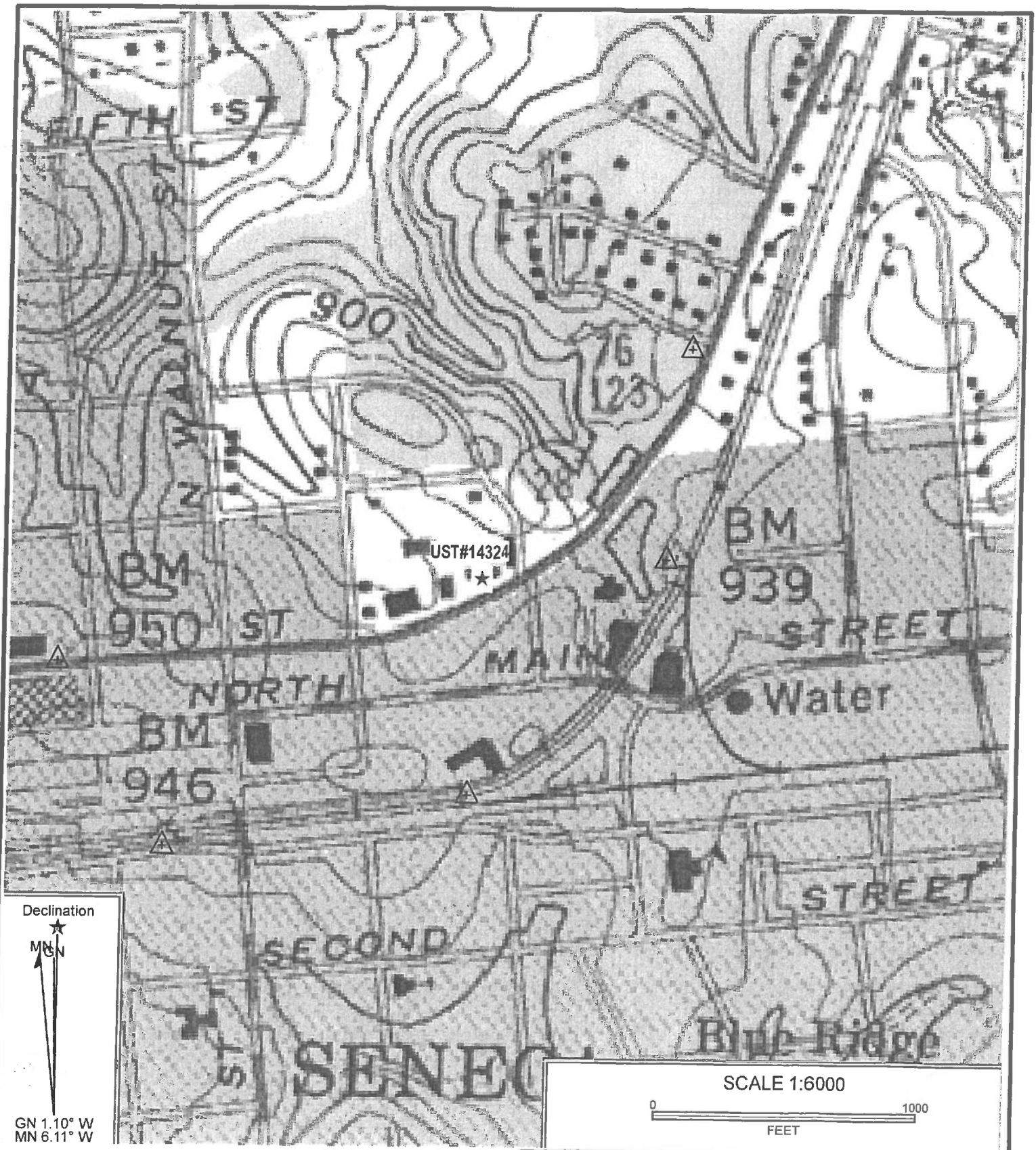
1. Groundwater depths were measured from the top of the PVC riser pipe.
2. Site datum based on assumed spot elevation.
3. NM = Not Measured
4. TD = Total Depth
5. DESTROYED = Well has been destroyed
6. ABANDONED = Well has been Abandoned
7. OBSTRUCTION = Well Ostructed / Unable to determine depth to water.
8. DRY = Well Gauged DRY

TABLE 3
GROUNDWATER COC COCENTRATION DATA
MAY 30, 2018 SAMPLING EVENT
FORMER RED DIAMOND (UNKNOWN UST# 14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 18-6368
SCDHEC SITE ID NUMBER 14324

Well ID#	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
		RBSL 5	*RBSL 1,000*	*RBSL 700*	*RBSL 10,000*	*N/A*	*RBSL 25*	*RBSL 40*	*RBSL 5*	*RBSL 0.05*	*RBSL 240*	*RBSL 128*	*RBSL NE*	*RBSL 1,400*	*RBSL NE*	*RBSL 150*	*RBSL 10,000*	*RBSL 47*
MW-1	8/10/13	<100	130	819	6,610	7,559	393	<100	NT	0.33	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<125	159	1,220	9,360	10,739	774	<125	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	<100	139	847	7,070	8,056	630	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-2	8/10/13	3,770	6,000	369	2,436	12,575	102	<5	NT	61.20	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	4,430	10,200	1,220	6,990	22,840	542	<250	NT	61.10	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	13,200	24,200	1,540	11,400	50,340	529	<50.0	<50.0	201	5,520	<100	<1,000	<1,000	<500	<50.0	<2,000	<100
	5/30/18	13,300	27,500	2,350	12,600	55,750	809J	<1,000	<1,000	261	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
MW-3	8/10/13	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	259	3,390	1,230	6,020	10,899	374	<25.0	<25.0	<0.020	<500	<50.0	<50.0	<500	<250	<25.0	<1,000	<50.0
	5/30/18	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	8/10/13	443	1,530	163	7,980	10,116	1,080	<50	NT	196	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	21,500	26,100	1,220	10,900	59,720	1,050	<125	93.9J	687	4,170	<250	<2,500	<2,500	<1,250	156	<5,000	<250
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-5	8/10/13	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0	NT	5.60	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	18,100	33,900	1,520	8,040	61,560	516	<125	<125	122	4,340	<250	<2500	<2,500	<1,250	<125	<5,000	<250
	5/30/18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.096	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-8	8/10/13	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0	NT	<0.030	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	8/10/13	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	6,400	12,000	817	5,650	24,867	247	<25.0	44.7	23.1	1,550	<50.0	<500	<500	<250	38.6	<1,000	<50.0
	5/30/18	7,340	18,900	1,190	6,770	34,200	404J	<625	<625	154	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
MW-13	8/10/13	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	2,610	7,620	1,220	7,420	18,870	629	<125	<125	43.2	<2,500	<250	<2,500	<2,500	<1250	<125	<5,000	<250
	5/30/18	2,280	3,190	427	3,370	9,267	171	<100	<100	38.6	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
MW-19	8/10/13	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.025	<100	<10.0	<100	<100	<50.0	<5.0	5,910	<10.0
MW-19R	5/30/18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.040	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20	5/30/18	38.9	3.2J	6.9	31.7	80.7J	3.9J	<5.0	<5.0	0.17	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-21	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-22	5/30/18	338	731	58	399	1,526	16.3J	<25.0	<25.0	3.8	<500	<50.0	<500	<500	<250	<25.0	<1,000	<50.0
MW-23	5/30/18	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-24	5/30/18	14	17	1.8J	24	56.7J	<5.0	<5.0	6.4	2.9	<100	<10.0	<100	<100	<50.0	2.5J	<200	<10.0
MW-25	5/30/18	4.4J	9.5	8.7	50.2	72.8J	<5.0	<5.0	<5.0	<0.019	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-26	5/30/18	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
DW-1	5/30/18	2,240	1,260	161	1,130	4,791	88.5J	<100	<100	10.7	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
RW-1	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
RW-2	5/30/18	<100	861	936	5,700	7,497	263	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
RW-3	5/30/18	1,020	4,120	2,550	14,900	22,590	686	<250	<250	0.66	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
RW-4	5/30/18	30,600	38,600	2,700	14,000	85,900	956J	<1,250	562J	1,850	<25,000	<2,500	<25,000	<25,000	<12,500	694J	<50,000	<2,500
RW-5	5/30/18	28,800	36,600	2,430	12,400	80,230	614J	<1,250	<1,250	612	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
EP-4	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	155.0	4,830	1,730.0	9,990	16,705	897	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	5/30/18	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
EP-12	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	8,600	16,600	1,060	12,600	38,860	1,380	<625	<625	298	<12,500	<1,250	<12,500	<12,500	<6250	<625	<25,000	<1,250
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
EP-16	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	4,540	9,720	1,140	16,400	31,800	1,910	<500	<500	876	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
	5/30/18	7,010	13,200.0	1,050	13,500	34,760	1,260	<500	<500	457	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
EP-20	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	7,730	16,100	550	13,000	37,380	1,610	<250	156J	604	<5,000	<500	<5,000	<5,000	<2,500	99.1J	<10,000	<500
	5/30/18	7,810	9,720	290J	15,600	33,420J	1,290	<500	<500	704	<10,000	<1,000	<1,000	<10,000	<5,000	173J	<20,000	<1,000
DUP (EP-16)	3/12/15	5,150	10,800	1,300	17,400	34,650	1,960	<500	<500	876	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
DUP-1 (MW-13)	5/30/18	3,010	3,370	570	3,950	10,910	528	<100	<100	58.1	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
Field Blank	3/12/15	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.28	<100	<10	<100	<100	<100	<10	<1,000	<100
	5/30/18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.022	<100	<10	<100	<100	<100	<5	<1,000	<100
Trip Blank	3/12/15	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<10	<1,000	<100
	5/30/18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<5	<1,000	<100

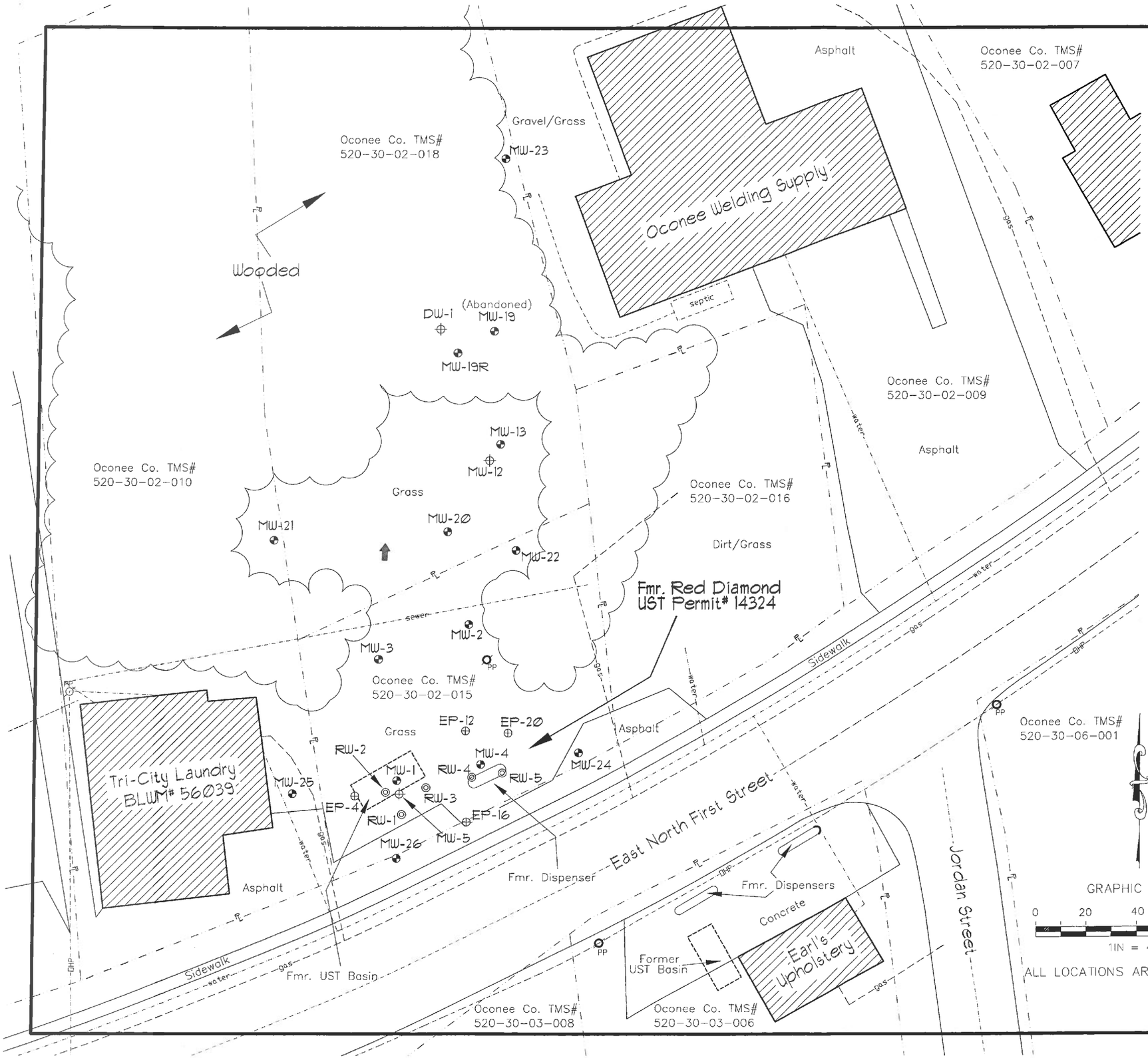
Notes:
1. BDL = Below Practical Quantitative Limits
2. ug/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NL = Not Located
7. DRY = Well was Dry at the time of Sampling
8. NT = Not Tested.
9. EDB = Ethylene Dibromide
10. 1,2 DCA = 1,2-Dichloroethane
11. PROD = Free Phase Petroleum Product
12. * = Sample collected beneath Product
13. "J" Values used in Total BTEX Calculations
14. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
15. B = Detected in Method Blank
16. S = MS/MSD Failure
17. P = The RPD between the two columns exceeds 40%.
18. DIPE = Diisopropyl Ether
19. ETBE = Ethyl ter-butyl Ether
20. TAA = tert-Amyl Alcohol
21. TAME = tert-Amyl Methyl Ether
22. TBA = ter-Butyl Alcohol
23. TBF = tert-Butyl Formate
24. ETBA = 3,3-Dimethyl-1-Butanol
25. ABD. = Well Has been Abandoned

FIGURES



Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

Midlands Environmental Consultants, Inc.	Site Location
Former Red Diamond (UST Unknown #14324) 519 East North First Street, Seneca, SC SCDHEC Site ID# 14324	
Figure 1	MECI 18-6368



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- DHP — Overhead Power
- PL — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

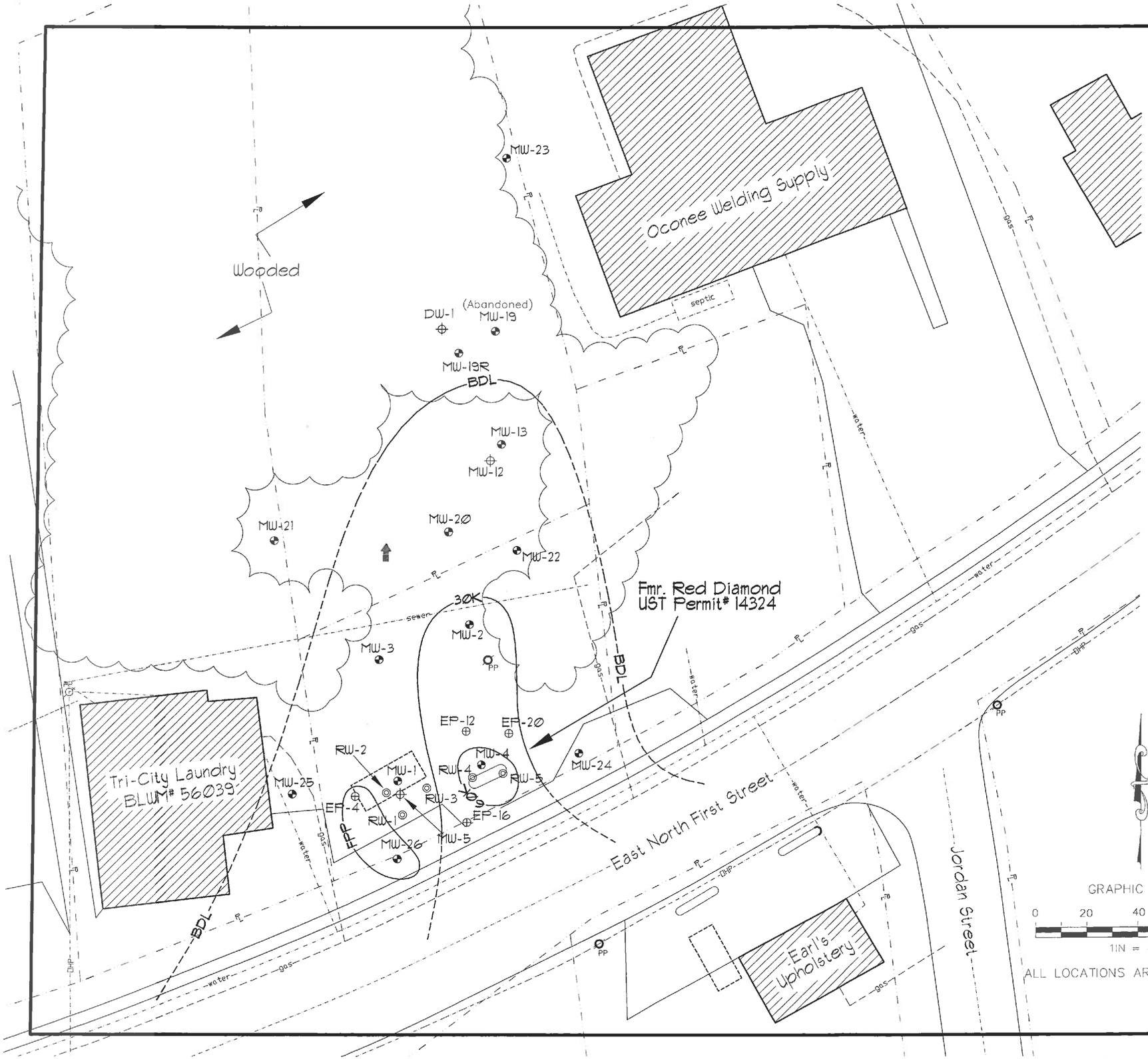
Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 18-6368
DATE June 26, 2018
FIGURE 2



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

——— Total BTEX Concentration Isopleth (ug/l)

Groundwater COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	12 DCA (ug/l)	EDB (ug/l)
MW-1	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-2	13,300	27,500	2,350	12,600	55,750	809J	<1,000	<1,000	261
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-5	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.096
MW-12	7,340	18,900	1,190	6,770	34,200	404J	<625	<625	154
MW-13	2,280	3,190	427	3,370	9,267	171	<100	<100	38.6
MW-19R	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.040
MW-20	38.9	3.2J	6.9	31.7	80.7J	3.9J	<5.0	<5.0	0.17
MW-21	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-22	338	731	58	339	1,526	16.3J	<25.0	<25.0	3.8
MW-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-24	14	17	1.8J	24	56.7J	<5.0	<5.0	6.4	2.9
MW-25	4.4J	9.5	8.7	50.2	72.8J	<5.0	<5.0	<5.0	<0.019
MW-26	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
DW-1	2,240	1,260	161	1,130	4,791	88.5J	<100	<100	10.7
RW-1	NL	NL	NL	NL	NL	NL	NL	NL	NL
RW-2	<100	861	936	5,700	7,497	263	<100	<100	<0.020
RW-3	1,020	4,120	2,550	14,900	22,590	686	<250	<250	0.66
RW-4	30,600	38,600	2,700	14,000	85,900	956J	<1,250	956J	1,850
RW-5	28,800	36,600	2,430	12,400	80,230	614J	<1,250	<1,250	612
EP-4	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
EP-12	NL	NL	NL	NL	NL	NL	NL	NL	NL
EP-16	7,010	13,200	1,050	13,500	34,760	1,260	<500	<500	457
EP-20	7,810	9,720	290J	15,600	33,420J	1,290	<500	<500	704
DUP(MW-13)	3,010	3,370	570	3,960	10,910	528	<100	<100	58.1
Field Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	0.022
Trip Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT

Notes: Groundwater samples collected on May 30, 2018.

Isopleth Interval = 30,000 ug/l

BDL = Below Detection Limits

"J" Values included in Total BTEX Calculations

Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

FPP = Free Phase Product

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Groundwater CoC Site Map
(Total BTEX Isopleth)

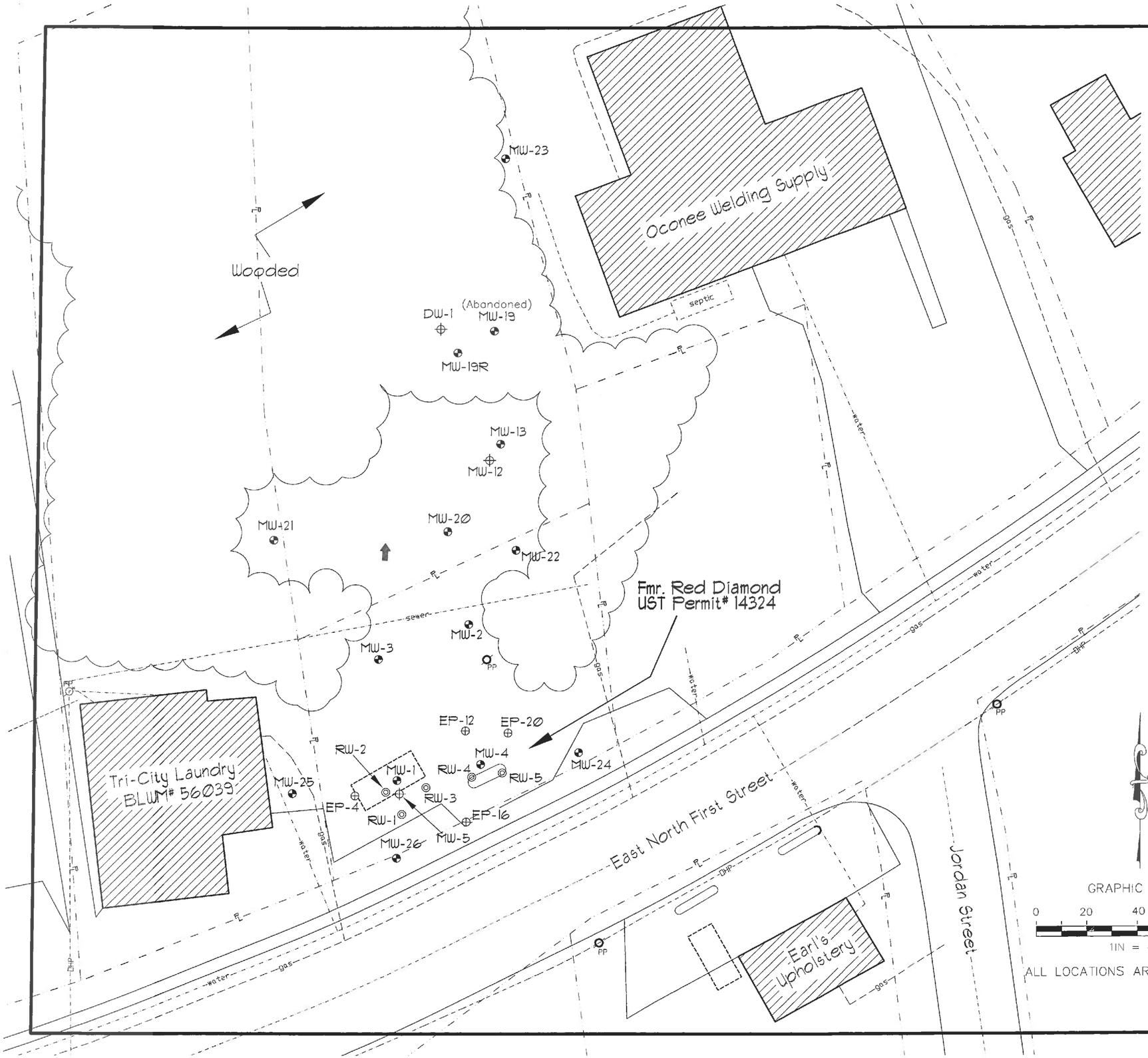
Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 18-6368

DATE June 26, 2018

FIGURE 4



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

Groundwater COC Concentration Data - Oxygenates

Sample #	TAA (ug/l)	TAME (ug/l)	ETBA (ug/l)	TBA (ug/l)	TBF (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)
MW-1	NL	NL	NL	NL	NL	NL	NL	NL
MW-2	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	NL	NL	NL	NL	NL	NL	NL	NL
MW-5	<100	<10	<100	<100	<50	<5	<200	<10
MW-12	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
MW-13	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
MW-19R	<100	<10	<100	<100	<50	<5	<200	<10
MW-20	<100	<10	<100	<100	<50	<5	<200	<10
MW-21	NL	NL	NL	NL	NL	NL	NL	NL
MW-22	<100	<10	<100	<100	<50	<5	<200	<10
MW-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-24	<100	<10	<100	<100	<50	2.5J	<200	<10
MW-25	<100	<10	<100	<100	<50	<5	<200	<10
MW-26	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
DW-1	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
RW-1	NL	NL	NL	NL	NL	NL	NL	NL
RW-2	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
RW-3	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
RW-4	<25,000	<2,500	<25,000	<25,000	<12,500	694J	<50,000	<2,500
RW-5	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
EP-4	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
EP-12	NL	NL	NL	NL	NL	NL	NL	NL
EP-16	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
EP-20	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DUP(MW-13)	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
Field Blank	<100	<10	<100	<100	<50	<5	<200	<10
Trip Blank	<100	<10	<100	<100	<50	<5	<200	<10

Notes: Groundwater samples collected on May 30, 2018.

PROD = Free Phase Product

NL = Not Located

ABD = Abandoned

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Groundwater CoC Site Map
(Oxygenates)

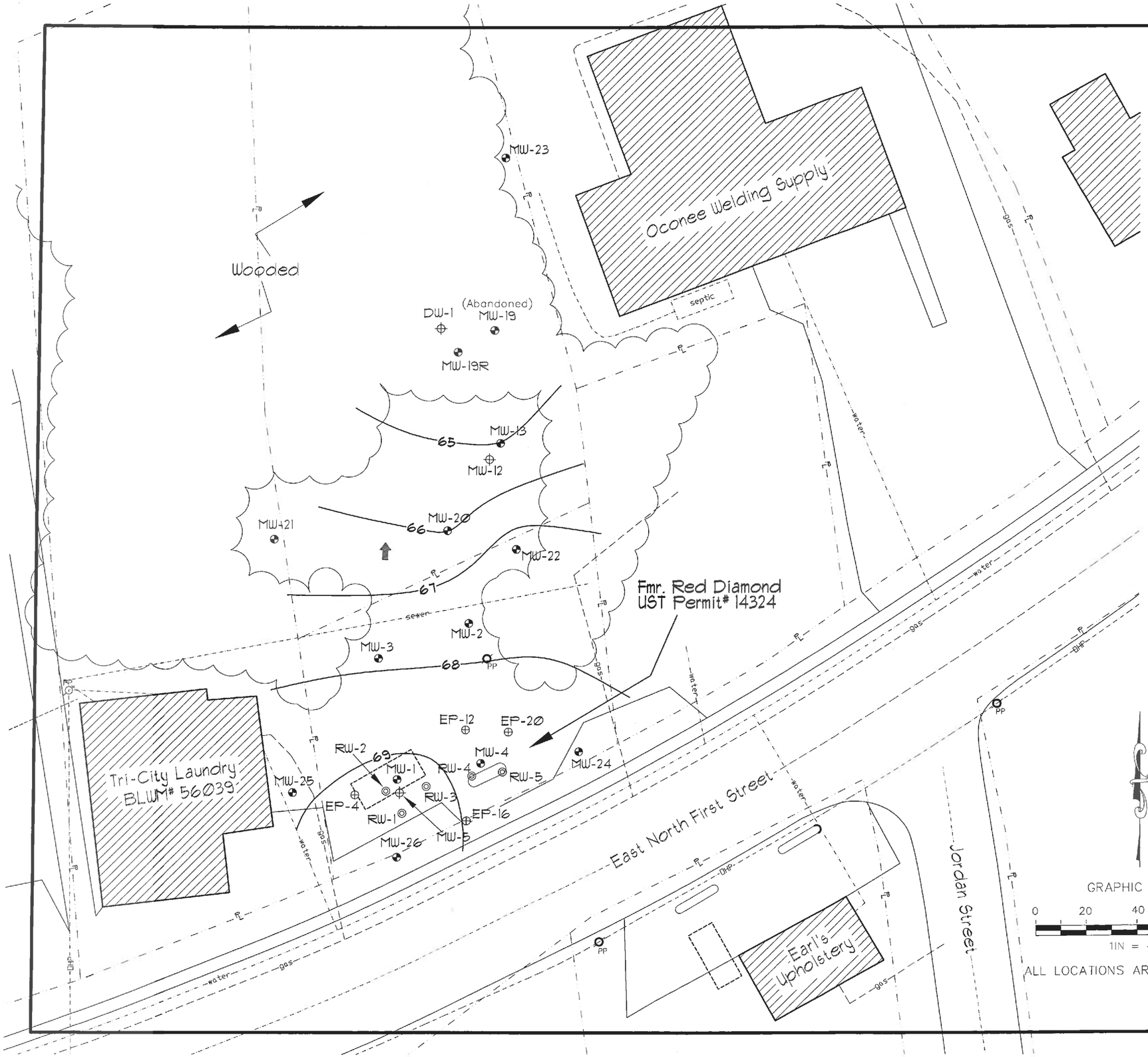
Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 18-6368

DATE June 26, 2018

FIGURE 4A



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

——— Groundwater Elevation Contour (feet)

Potentiometric Data

Well #	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well Head Elevation	Groundwater Elevation
MW-1	25-40	---	NL	---	98.32	NL
MW-2	30-40	---	31.01	---	98.60	67.59
MW-3	30-40	---	ABD	---	97.92	ABD
MW-4	30-40	---	NL	---	99.07	NL
MW-5	60-65	---	29.29	---	98.03	68.74
MW-12	60-65	---	34.75	---	99.12	64.37
MW-13	36-46	---	34.41	---	99.41	65.00
MW-19R	30-40	---	34.80	---	99.09	64.29
MW-20	30-40	---	32.30	---	98.30	66.00
MW-21	30-40	---	NL	---	95.58	NL
MW-22	30-40	---	31.43	---	99.03	67.60
MW-23	30-40	---	DRY	---	104.14	DRY
MW-24	30-40	---	31.90	---	100.19	68.29
MW-25	30-40	---	26.48	---	95.40	68.92
MW-26	30-40	29.42	29.52	0.10	98.46	69.03
DW-1	60-65	---	34.19	---	98.63	64.44
RW-1	20-40	---	NL	---	98.64	NL
RW-2	20-40	---	29.45	---	98.74	69.29
RW-3	20-40	---	29.39	---	98.73	69.34
RW-4	20-40	---	30.60	---	99.31	68.74
RW-5	20-40	---	30.90	---	99.52	68.62
EP-4	20-35	29.13	29.24	0.11	Unknown	Unknown
EP-12	20-35	---	NL	---	Unknown	Unknown
EP-16	TD:34.35	---	30.53	---	Unknown	Unknown
EP-20	15-35	---	31.02	---	Unknown	Unknown

Notes: Depth to groundwater measured on May 30, 2018.

Contour Interval = 1.00 Foot

Site Datum Based on Assumed Spot Elevation.

Groundwater Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

DW-1, EP-4, EP-16 and EP-20 not used in contouring.

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Potentiometric Data Site Map
(Groundwater Contour)

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 18-6368
DATE June 26, 2018
FIGURE 5

APPENDIX A:

SITE SURVEY
(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JP, KJ, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-1	Initial										25-40				
	1st														
	2nd		CNL / Destroyed												
	3rd														
	4th														
	5th														
	Sampling														
MW-2	Initial	12:07	6.68	117.4	19.9	3.04	9.07		31.01		30-40	8.99	1.417	DRY @ 2.5	Strong odor
	1st	12:10	6.71	123.60	19.7	3.17	13.33								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	12:15	6.80	128.2	19.3	3.23	24.71						7.33		
MW-3	Initial										30-40				
	1st														
	2nd		Full of concrete												
	3rd														
	4th														
	5th														
	Sampling														
MW-4	Initial										30-40				
	1st														
	2nd														
	3rd		CNL / Destroyed												
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JR, KS, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-5	Initial	13:11	6.61	86.0	19.8	3.10	29.35		29.29		60-65	35.71	5.82	Dry @	No Odor
	1st	13:14	6.70	85.1	19.5	3.98	48.03								
	2nd	13:25	6.72	85.1	19.2	3.03	39.00								
	3rd														
	4th														
	5th														
	Sampling	13:33	6.83	84.3	18.9	3.00	35.61						29.10	12	
MW-12	Initial	11:33	6.54	115.6	19.7	1.90	24.72		34.74		60-65	30.25	4.93	Dry @	Slight Odor
	1st	11:39	6.40	111.6	19.4	1.67	39.80								
	2nd	11:44	6.32	109.1	19.3	1.51	42.21								
	3rd														
	4th														
	5th														
	Sampling	11:50	6.21	101.2	19.1	1.47	54.73						24.65	10	
MW-13	Initial	11:49	Sheen						34.41		35-45	11.59	1.89	Dry @	Odor Sheen
	1st	11:49	Sheen												
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:49	Sheen										9.45	2	Dup
MW-19R	Initial	11:22	6.51	45.3	18.9	4.40	41.27		34.80		30-40	5.20	0.85	Dry @	No Odor
	1st	11:24	6.47	44.9	18.8	4.17	89.73								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:27	6.44	44.1	18.7	4.08	52.91						4.24	1	

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JP KS, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-20	Initial	11:55	6.66	136.9	19.4	4.71	46.72		32.30		30-40	7.70	1.26	Dry @ 2	Up dor
	1st	11:58	6.53	133.6	19.2	4.66	61.93								
	2nd												6.28		
	3rd														
	4th														
	5th														
	Sampling	12:02	6.41	129.2	19.1	4.61	50.44								
MW-21	Initial	CNL - Dozed Over									30-40				
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-22	Initial	11:56	7.19	174.5	19.4	1.79	17.22		31.43		30-40	8.57	1.40	Dry @ 2.5	Up dor
	1st	16:59	7:22	179.6	19.2	1.68	39.42								
	2nd												6.98		
	3rd														
	4th														
	5th														
	Sampling	17:03	7.29	186.2	19.0	1.62	22.06								
MW-23	Initial	Dry							Dry @		30-40				Dry DNS
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x .66 for 4" wells, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JR, KS, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: ~~Yes~~ No

Conductivity: ~~Yes~~ No

Dissolved Oxygen: ~~Yes~~ No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-24	Initial	12:21	6.90	119.9	22.3	2.53	26.82								
	1st	12:24	6.94	113.6	22.1	2.37	41.05								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	12:29	6.97	112.1	22.0	228	88.57		31.90		30-40	8.10	1.56	Dry @	Slight Odor
													7.62	3	
MW-25	Initial	12:20	6.98	108.6	19.4	2.81	24.99								
	1st	12:24	6.89	107.2	19.1	2.77	51.20								
	2nd	12:27	6.94	105.0	19.1	2.74	116.40								
	3rd														
	4th														
	5th														
	Sampling	12:31	6.78	100.7	19.0	2.70	37.73		26.68		30-40	13.62	2.20	Dry @	Yi Odor
													11.02	5	
MW-26	Initial	12:34	Product												
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling								Product 29.42 Water 29.52		30-40				Product DNS
DW-1	Initial	11:18	8.03	112.5	18.9	3.38	116.1								
	1st	11:25	7.70	109.2	18.8	3.04	52.33								
	2nd	11:31	7.21	108.4	18.7	2.55	49.92								
	3rd														
	4th														
	5th														
	Sampling	11:36	6.91	107.0	19.6	2.35	49.71		34.19		60-65	30.81	5.02	Dry @	No Odor
													25.11	12	

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JR, KS, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
RW-1	Initial										20-40				
	1st														
	2nd		GNL / Destroyed												
	3rd														
	4th														
	5th														
	Sampling														
RW-2	Initial	14:10	7.02	234.7	21.6	2.39	13.91		29.45		25-40	10.55	6.89	DRY @ 17	Odor
	1st	14:17	7.01	241.2	21.7	2.50	91.60								
	2nd	14:24	6.94	245.0	21.8	2.66	84.22						34.45		
	3rd														
	4th														
	5th														
	Sampling	14:31	6.84	251.2	21.9	2.77	74.21								
RW-3	Initial	13:40	Sheen →						29.39		20-40	10.61	6.92	DRY @ 17	Sheen/ Strong Odor
	1st	13:48	Sheen →												
	2nd	13:56	Sheen →										34.64		
	3rd														
	4th														
	5th														
	Sampling	14:04	Sheen →												
RW-4	Initial	13:15	Sheen						30.60		20-40	9.40	6.14	DRY @ 16	Heavy Sheen/ Strong Odor
	1st	13:23	Sheen →												
	2nd	13:31	Sheen →										30.60		
	3rd														
	4th														
	5th														
	Sampling	13:39	Sheen →												

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JR, KS, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
RW-5	Initial	13:44	6.31	45.7	20.6	2.50	8.63								
	1st	13:50	6.13	60.0	20.4	2.87	15.21								
	2nd	13:~~55~~	6.10	79.4	20.1	3.09	16.30								
	3rd								30.90		20-40	9.10	5.94	Dry @ 15	Odor
	4th														
	5th														
	Sampling	14:03	6.06	81.5	20.0	3.30	17.63						29.71		
EP-4	Initial	15:03	Product						Product 29.13 Water 29.24		20-35				DNS
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
EP-12	Initial														
	1st														
	2nd		Destroyed												
	3rd														
	4th														
	5th														
	Sampling														
EP-16	Initial	13:03	Sheen												
	1st	13:05	Sheen												
	2nd														
	3rd								30.53		20-TD:34.35	3.82	0.02	Dry @ 1	Heavy Sheen/ Strong Odor
	4th														
	5th														
	Sampling	13:09	Sheen										3.11		

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: JP, KS, AH

Sampling Date(s): 5/30/18

Sampling Case#: 1

Job Name: Red Diamond

Job Number: 18-6368

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
EP-20	Initial	12:07	Sheen						31.02		13-35	3.98	0.65	Dry @ 1	Odor Sheen
	1st	12:10	sheen												
	2nd														
	3rd														
	4th														
	5th														
	Sampling	12:14	Sheen										3.24		
dup-1	Initial	11:44	MW-13												
	1st														
	2nd														
	3rd														
	4th														
	5th														
dup-2	Sampling														
FB	Initial	14:35													
	1st														
	2nd														
	3rd														
TB	4th	14:35													
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

June 08, 2018

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

RE: Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter
trey.carter@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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

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CERTIFICATIONS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No. 92386627

Charlotte Certification IDs
9800 Kincey Ave Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #. 12
South Carolina Certification # 99006001
Florida/NELAP Certification # E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92386627001	MW-2	Water	05/30/18 12:15	05/31/18 06.05
92386627002	MW-5	Water	05/30/18 13.33	05/31/18 06:05
92386627003	MW-12	Water	05/30/18 11:50	05/31/18 06 05
92386627004	MW-13	Water	05/30/18 11.49	05/31/18 06 05
92386627005	MW-19R	Water	05/30/18 11 27	05/31/18 06:05
92386627006	MW-20	Water	05/30/18 12.02	05/31/18 06.05
92386627007	MW-22	Water	05/30/18 12.03	05/31/18 06:05
92386627008	MW-24	Water	05/30/18 12:29	05/31/18 06:05
92386627009	MW-25	Water	05/30/18 12:31	05/31/18 06:05
92386627010	DW-1	Water	05/30/18 11:36	05/31/18 06:05
92386627011	RW-2	Water	05/30/18 14:31	05/31/18 06 05
92386627012	RW-3	Water	05/30/18 14:04	05/31/18 06.05
92386627013	RW-4	Water	05/30/18 13.39	05/31/18 06:05
92386627014	RW-5	Water	05/30/18 14.03	05/31/18 06:05
92386627015	EP-16	Water	05/30/18 13:09	05/31/18 06.05
92386627016	EP-20	Water	05/30/18 12.14	05/31/18 06.05
92386627017	DUP-1	Water	05/30/18 11 49	05/31/18 06:05
92386627018	FIELD BLANK	Water	05/30/18 14:35	05/31/18 06:05
92386627019	TRIP BLANK	Water	05/30/18 14 35	05/31/18 06.05

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SAMPLE ANALYTE COUNT

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92386627001	MW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627002	MW-5	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627003	MW-12	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627004	MW-13	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627005	MW-19R	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627006	MW-20	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627007	MW-22	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627008	MW-24	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627009	MW-25	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627010	DW-1	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627011	RW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627012	RW-3	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627013	RW-4	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627014	RW-5	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627015	EP-16	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627016	EP-20	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627017	DUP-1	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627018	FIELD BLANK	EPA 8011	SEM	2	PASI-C
		EPA 8260	CAH	20	PASI-C
92386627019	TRIP BLANK	EPA 8260	CAH	20	PASI-C

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Sample: MW-2 **Lab ID: 92386627001** Collected: 05/30/18 12:15 Received: 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**261**	ug/L	8.0	8.0	400	06/04/18 10:53	06/06/18 11.01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		400	06/04/18 10:53	06/06/18 11:01	301-79-56	S4
8260 MSV	Analytical Method EPA 8260								
tert-Amyl Alcohol	ND	ug/L	20000	15400	200		06/04/18 17:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	680	200		06/04/18 17:31	994-05-8	
Benzene	**13300**	ug/L	1000	340	200		06/04/18 17 31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	6420	200		06/04/18 17:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	11500	200		06/04/18 17:31	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	1460	200		06/04/18 17.31	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	360	200		06/04/18 17.31	107-06-2	
Diisopropyl ether	ND	ug/L	1000	340	200		06/04/18 17:31	108-20-3	
Ethanol	ND	ug/L	40000	26200	200		06/04/18 17:31	64-17-5	
Ethylbenzene	**2350**	ug/L	1000	320	200		06/04/18 17 31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	720	200		06/04/18 17:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	340	200		06/04/18 17:31	1634-04-4	
Naphthalene	**809J**	ug/L	1000	400	200		06/04/18 17:31	91-20-3	
Toluene	**27500**	ug/L	1000	320	200		06/04/18 17:31	108-88-3	
Xylene (Total)	**12600**	ug/L	1000	1000	200		06/04/18 17:31	1330-20-7	
m&p-Xylene	**8680**	ug/L	2000	620	200		06/04/18 17:31	179601-23-1	
o-Xylene	**3880**	ug/L	1000	320	200		06/04/18 17.31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		200		06/04/18 17 31	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		200		06/04/18 17 31	17060-07-0	
Toluene-d8 (S)	89	%	70-130		200		06/04/18 17.31	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Sample: MW-5 **Lab ID: 92386627002** Collected: 05/30/18 13:33 Received: 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**0.096**	ug/L	0.020	0.020	1	06/04/18 10:53	06/05/18 21:27	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	06/04/18 10:53	06/05/18 21:27	301-79-56	
8260 MSV	Analytical Method. EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		06/03/18 09:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		06/03/18 09:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/03/18 09:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/03/18 09:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/03/18 09:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		06/03/18 09.14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		06/03/18 09:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		06/03/18 09:14	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/03/18 09:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		06/03/18 09.14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		06/03/18 09:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		06/03/18 09:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		06/03/18 09:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		06/03/18 09.14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/03/18 09:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		06/03/18 09.14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		06/03/18 09:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/03/18 09:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/03/18 09:14	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		06/03/18 09:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Sample: MW-12 **Lab ID: 92386627003** Collected: 05/30/18 11:50 Received: 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**154**	ug/L	3 9	3.9	200	06/04/18 10:53	06/07/18 13:00	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		200	06/04/18 10:53	06/07/18 13.00	301-79-56	S4
8260 MSV	Analytical Method. EPA 8260								
tert-Amyl Alcohol	ND	ug/L	12500	9600	125		06/04/18 17:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	425	125		06/04/18 17:49	994-05-8	
Benzene	**7340**	ug/L	625	212	125		06/04/18 17 49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	4010	125		06/04/18 17:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	7210	125		06/04/18 17.49	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	912	125		06/04/18 17:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	625	225	125		06/04/18 17.49	107-06-2	
Diisopropyl ether	ND	ug/L	625	212	125		06/04/18 17:49	108-20-3	
Ethanol	ND	ug/L	25000	16400	125		06/04/18 17:49	64-17-5	
Ethylbenzene	**1190**	ug/L	625	200	125		06/04/18 17:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	450	125		06/04/18 17:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	625	212	125		06/04/18 17:49	1634-04-4	
Naphthalene	**404J**	ug/L	625	250	125		06/04/18 17.49	91-20-3	
Toluene	**18900**	ug/L	625	200	125		06/04/18 17:49	108-88-3	
Xylene (Total)	**6770**	ug/L	625	625	125		06/04/18 17 49	1330-20-7	
m&p-Xylene	**4610**	ug/L	1250	388	125		06/04/18 17.49	179601-23-1	
o-Xylene	**2160**	ug/L	625	200	125		06/04/18 17.49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		125		06/04/18 17:49	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		125		06/04/18 17:49	17060-07-0	
Toluene-d8 (S)	105	%	70-130		125		06/04/18 17:49	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No 92386627

Sample: MW-13 **Lab ID: 92386627004** Collected 05/30/18 11.49 Received 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**38.6**	ug/L	0 97	0.97	50	06/04/18 10:53	06/06/18 11:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		50	06/04/18 10:53	06/06/18 11:39	301-79-56	S4
8260 MSV	Analytical Method EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		06/03/18 11:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		06/03/18 11.01	994-05-8	
Benzene	**2280**	ug/L	100	34.0	20		06/03/18 11.01	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		06/03/18 11.01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		06/03/18 11 01	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		06/03/18 11.01	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		06/03/18 11.01	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		06/03/18 11:01	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		06/03/18 11.01	64-17-5	
Ethylbenzene	**427**	ug/L	100	32.0	20		06/03/18 11:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		06/03/18 11:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34 0	20		06/03/18 11:01	1634-04-4	
Naphthalene	**171**	ug/L	100	40.0	20		06/03/18 11.01	91-20-3	
Toluene	**3190**	ug/L	100	32.0	20		06/03/18 11 01	108-88-3	M1,R1
Xylene (Total)	**3370**	ug/L	100	100	20		06/03/18 11:01	1330-20-7	MS
m&p-Xylene	**2450**	ug/L	200	62.0	20		06/03/18 11.01	179601-23-1	M1
o-Xylene	**919**	ug/L	100	32.0	20		06/03/18 11:01	95-47-6	M1
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		20		06/03/18 11:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		20		06/03/18 11:01	17060-07-0	
Toluene-d8 (S)	105	%	70-130		20		06/03/18 11:01	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Sample: MW-19R **Lab ID: 92386627005** Collected: 05/30/18 11.27 Received: 05/31/18 06 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								
1,2-Dibromoethane (EDB)	**0.040**	ug/L	0.020	0.020	1	06/04/18 10:53	06/05/18 22 22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	74	%	60-140		1	06/04/18 10:53	06/05/18 22:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76 8	1		06/03/18 09.32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3.4	1		06/03/18 09:32	994-05-8	
Benzene	ND	ug/L	5 0	1.7	1		06/03/18 09 32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/03/18 09.32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/03/18 09:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		06/03/18 09.32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5 0	1.8	1		06/03/18 09:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1 7	1		06/03/18 09:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/03/18 09:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		06/03/18 09:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	3.6	1		06/03/18 09:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5 0	1.7	1		06/03/18 09:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		06/03/18 09.32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		06/03/18 09:32	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5 0	1		06/03/18 09:32	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3.1	1		06/03/18 09:32	179601-23-1	
o-Xylene	ND	ug/L	5 0	1.6	1		06/03/18 09 32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/03/18 09 32	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		06/03/18 09:32	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		06/03/18 09.32	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No 92386627

Sample: MW-20 **Lab ID: 92386627006** Collected: 05/30/18 12.02 Received 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**0.17**	ug/L	0.019	0 019	1	06/06/18 15:47	06/06/18 17:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	06/06/18 15:47	06/06/18 17 38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		06/03/18 09 50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		06/03/18 09 50	994-05-8	
Benzene	**38.9**	ug/L	5.0	1.7	1		06/03/18 09:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/03/18 09 50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/03/18 09:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7 3	1		06/03/18 09.50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5 0	1.8	1		06/03/18 09.50	107-06-2	
Diisopropyl ether	ND	ug/L	5 0	1.7	1		06/03/18 09.50	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/03/18 09:50	64-17-5	
Ethylbenzene	**6.9**	ug/L	5 0	1.6	1		06/03/18 09:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		06/03/18.09:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		06/03/18 09:50	1634-04-4	
Naphthalene	**3.9J**	ug/L	5.0	2.0	1		06/03/18 09:50	91-20-3	
Toluene	**3.2J**	ug/L	5 0	1.6	1		06/03/18 09 50	108-88-3	
Xylene (Total)	**31.7**	ug/L	5 0	5.0	1		06/03/18 09:50	1330-20-7	
m&p-Xylene	**19.2**	ug/L	10.0	3.1	1		06/03/18 09.50	179601-23-1	
o-Xylene	**12.4**	ug/L	5 0	1.6	1		06/03/18 09:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/03/18 09 50	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/03/18 09:50	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		06/03/18 09.50	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Sample: MW-22 **Lab ID: 92386627007** Collected: 05/30/18 12:03 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**3.8**	ug/L	0.20	0.20	10	06/04/18 10:53	06/06/18 11:57	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		10	06/04/18 10:53	06/06/18 11:57	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	500	384	5		06/06/18 18:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		06/06/18 18:04	994-05-8	
Benzene	**338**	ug/L	25.0	8.5	5		06/06/18 18:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		06/06/18 18:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		06/06/18 18:04	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		06/06/18 18:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		06/06/18 18:04	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		06/06/18 18:04	108-20-3	
Ethanol	ND	ug/L	1000	655	5		06/06/18 18:04	64-17-5	
Ethylbenzene	**58.1**	ug/L	25.0	8.0	5		06/06/18 18:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		06/06/18 18:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		06/06/18 18:04	1634-04-4	
Naphthalene	**16.3J**	ug/L	25.0	10.0	5		06/06/18 18:04	91-20-3	
Toluene	**731**	ug/L	25.0	8.0	5		06/06/18 18:04	108-88-3	
Xylene (Total)	**399**	ug/L	25.0	25.0	5		06/06/18 18:04	1330-20-7	
m&p-Xylene	**272**	ug/L	50.0	15.5	5		06/06/18 18:04	179601-23-1	
o-Xylene	**127**	ug/L	25.0	8.0	5		06/06/18 18:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		5		06/06/18 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		5		06/06/18 18:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		06/06/18 18:04	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Sample: MW-24 **Lab ID: 92386627008** Collected: 05/30/18 12.29 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**2.9**	ug/L	0 079	0.079	4	06/04/18 10:53	06/06/18 12:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	146	%	60-140		4	06/04/18 10 53	06/06/18 12:16	301-79-56	S5
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		06/04/18 20 11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		06/04/18 20:11	994-05-8	
Benzene	**14.1**	ug/L	5.0	1.7	1		06/04/18 20:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/04/18 20.11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/04/18 20:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		06/04/18 20:11	762-75-4	
1,2-Dichloroethane	**6.4**	ug/L	5 0	1.8	1		06/04/18 20.11	107-06-2	
Diisopropyl ether	**2.5J**	ug/L	5.0	1.7	1		06/04/18 20.11	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/04/18 20:11	64-17-5	
Ethylbenzene	**1.8J**	ug/L	5.0	1.6	1		06/04/18 20 11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		06/04/18 20:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		06/04/18 20:11	1634-04-4	
Naphthalene	ND	ug/L	5 0	2.0	1		06/04/18 20.11	91-20-3	
Toluene	**17.0**	ug/L	5 0	1.6	1		06/04/18 20:11	108-88-3	
Xylene (Total)	**23.8**	ug/L	5 0	5.0	1		06/04/18 20:11	1330-20-7	
m&p-Xylene	**12.9**	ug/L	10.0	3.1	1		06/04/18 20:11	179601-23-1	
o-Xylene	**11.0**	ug/L	5 0	1.6	1		06/04/18 20:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/04/18 20:11	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		06/04/18 20.11	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		06/04/18 20:11	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Sample: MW-25 **Lab ID: 92386627009** Collected: 05/30/18 12:31 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	06/05/18 08:30	06/05/18 19:47	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	06/05/18 08:30	06/05/18 19:47	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		06/04/18 20:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		06/04/18 20:28	994-05-8	
Benzene	**4.4J**	ug/L	5.0	1.7	1		06/04/18 20:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/04/18 20:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/04/18 20:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		06/04/18 20:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		06/04/18 20:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		06/04/18 20:28	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/04/18 20:28	64-17-5	
Ethylbenzene	**8.7**	ug/L	5.0	1.6	1		06/04/18 20:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		06/04/18 20:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		06/04/18 20:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		06/04/18 20:28	91-20-3	
Toluene	**9.5**	ug/L	5.0	1.6	1		06/04/18 20:28	108-88-3	
Xylene (Total)	**50.2**	ug/L	5.0	5.0	1		06/04/18 20:28	1330-20-7	
m&p-Xylene	**41.1**	ug/L	10.0	3.1	1		06/04/18 20:28	179601-23-1	
o-Xylene	**9.1**	ug/L	5.0	1.6	1		06/04/18 20:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		06/04/18 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		06/04/18 20:28	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		06/04/18 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No. 92386627

Sample: DW-1 **Lab ID: 92386627010** Collected: 05/30/18 11.36 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**10.7**	ug/L	0.38	0.38	20	06/05/18 08:30	06/06/18 13:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		20	06/05/18 08:30	06/06/18 13:37	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		06/06/18 18:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		06/06/18 18:20	994-05-8	
Benzene	**2240**	ug/L	100	34.0	20		06/06/18 18:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		06/06/18 18:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		06/06/18 18:20	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		06/06/18 18:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		06/06/18 18:20	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		06/06/18 18:20	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		06/06/18 18:20	64-17-5	
Ethylbenzene	**161**	ug/L	100	32.0	20		06/06/18 18:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		06/06/18 18:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		06/06/18 18:20	1634-04-4	
Naphthalene	**88.5J**	ug/L	100	40.0	20		06/06/18 18:20	91-20-3	
Toluene	**1260**	ug/L	100	32.0	20		06/06/18 18:20	108-88-3	
Xylene (Total)	**1130**	ug/L	100	100	20		06/06/18 18:20	1330-20-7	
m&p-Xylene	**820**	ug/L	200	62.0	20		06/06/18 18:20	179601-23-1	
o-Xylene	**312**	ug/L	100	32.0	20		06/06/18 18:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		20		06/06/18 18:20	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		20		06/06/18 18:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		20		06/06/18 18:20	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No: 92386627

Sample: RW-2 **Lab ID: 92386627011** Collected 05/30/18 14:31 Received: 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	06/05/18 08:30	06/05/18 20:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	06/05/18 08:30	06/05/18 20:29	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		06/06/18 18:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		06/06/18 18:37	994-05-8	
Benzene	ND	ug/L	100	34.0	20		06/06/18 18:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		06/06/18 18:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		06/06/18 18:37	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		06/06/18 18:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		06/06/18 18:37	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		06/06/18 18:37	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		06/06/18 18:37	64-17-5	
Ethylbenzene	**936**	ug/L	100	32.0	20		06/06/18 18:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		06/06/18 18:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		06/06/18 18:37	1634-04-4	
Naphthalene	**263**	ug/L	100	40.0	20		06/06/18 18:37	91-20-3	
Toluene	**861**	ug/L	100	32.0	20		06/06/18 18:37	108-88-3	
Xylene (Total)	**5700**	ug/L	100	100	20		06/06/18 18:37	1330-20-7	
m&p-Xylene	**4290**	ug/L	200	62.0	20		06/06/18 18:37	179601-23-1	
o-Xylene	**1410**	ug/L	100	32.0	20		06/06/18 18:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		20		06/06/18 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		20		06/06/18 18:37	17060-07-0	
Toluene-d8 (S)	105	%	70-130		20		06/06/18 18:37	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Sample: RW-3 **Lab ID: 92386627012** Collected: 05/30/18 14.04 Received: 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**0.66**	ug/L	0.020	0.020	1	06/05/18 08:30	06/05/18 21:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	06/05/18 08:30	06/05/18 21:31	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	5000	3840	50		06/04/18 21:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		06/04/18 21:22	994-05-8	
Benzene	**1020**	ug/L	250	85.0	50		06/04/18 21:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		06/04/18 21:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		06/04/18 21:22	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		06/04/18 21:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		06/04/18 21:22	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		06/04/18 21:22	108-20-3	
Ethanol	ND	ug/L	10000	6550	50		06/04/18 21:22	64-17-5	
Ethylbenzene	**2550**	ug/L	250	80.0	50		06/04/18 21:22	100-41-4	M1
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		06/04/18 21:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	85.0	50		06/04/18 21:22	1634-04-4	
Naphthalene	**686**	ug/L	250	100	50		06/04/18 21:22	91-20-3	
Toluene	**4120**	ug/L	250	80.0	50		06/04/18 21:22	108-88-3	M1
Xylene (Total)	**14900**	ug/L	250	250	50		06/04/18 21:22	1330-20-7	MS
m&p-Xylene	**10300**	ug/L	500	155	50		06/04/18 21:22	179601-23-1	M1
o-Xylene	**4550**	ug/L	250	80.0	50		06/04/18 21:22	95-47-6	M1
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		50		06/04/18 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		50		06/04/18 21:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		50		06/04/18 21:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Sample: RW-4 **Lab ID: 92386627013** Collected 05/30/18 13:39 Received. 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**1850**	ug/L	42.0	42 0	2000	06/05/18 08 30	06/07/18 13 43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		2000	06/05/18 08:30	06/07/18 13.43	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	25000	19200	250		06/06/18 19.45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	850	250		06/06/18 19:45	994-05-8	
Benzene	**30600**	ug/L	1250	425	250		06/06/18 19.45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	8020	250		06/06/18 19:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	14400	250		06/06/18 19.45	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	1820	250		06/06/18 19:45	762-75-4	
1,2-Dichloroethane	**562J**	ug/L	1250	450	250		06/06/18 19 45	107-06-2	
Diisopropyl ether	**694J**	ug/L	1250	425	250		06/06/18 19:45	108-20-3	
Ethanol	ND	ug/L	50000	32800	250		06/06/18 19:45	64-17-5	
Ethylbenzene	**2700**	ug/L	1250	400	250		06/06/18 19.45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	900	250		06/06/18 19:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	425	250		06/06/18 19:45	1634-04-4	
Naphthalene	**956J**	ug/L	1250	500	250		06/06/18 19:45	91-20-3	
Toluene	**38600**	ug/L	1250	400	250		06/06/18 19:45	108-88-3	M1
Xylene (Total)	**14000**	ug/L	1250	1250	250		06/06/18 19:45	1330-20-7	
m&p-Xylene	**9620**	ug/L	2500	775	250		06/06/18 19.45	179601-23-1	
o-Xylene	**4340**	ug/L	1250	400	250		06/06/18 19.45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		250		06/06/18 19 45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		250		06/06/18 19:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130		250		06/06/18 19.45	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

Sample: RW-5 **Lab ID: 92386627014** Collected: 05/30/18 14:03 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**612**	ug/L	19.7	19.7	1000	06/05/18 08:30	06/07/18 14:04	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		1000	06/05/18 08:30	06/07/18 14:04	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	25000	19200	250		06/07/18 05:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	850	250		06/07/18 05:51	994-05-8	
Benzene	**28800**	ug/L	1250	425	250		06/07/18 05:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	8020	250		06/07/18 05:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	14400	250		06/07/18 05:51	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	1820	250		06/07/18 05:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	450	250		06/07/18 05:51	107-06-2	
Diisopropyl ether	ND	ug/L	1250	425	250		06/07/18 05:51	108-20-3	
Ethanol	ND	ug/L	50000	32800	250		06/07/18 05:51	64-17-5	
Ethylbenzene	**2430**	ug/L	1250	400	250		06/07/18 05:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	900	250		06/07/18 05:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	425	250		06/07/18 05:51	1634-04-4	
Naphthalene	**614J**	ug/L	1250	500	250		06/07/18 05:51	91-20-3	
Toluene	**36600**	ug/L	1250	400	250		06/07/18 05:51	108-88-3	
Xylene (Total)	**12400**	ug/L	1250	1250	250		06/07/18 05:51	1330-20-7	
m&p-Xylene	**8420**	ug/L	2500	775	250		06/07/18 05:51	179601-23-1	
o-Xylene	**4000**	ug/L	1250	400	250		06/07/18 05:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		250		06/07/18 05:51	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		250		06/07/18 05:51	17060-07-0	
Toluene-d8 (S)	102	%	70-130		250		06/07/18 05:51	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No: 92386627

Sample: EP-16 **Lab ID: 92386627015** Collected: 05/30/18 13:09 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**457**	ug/L	9.7	9.7	500	06/05/18 08:30	06/06/18 14:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		500	06/05/18 08:30	06/06/18 14:34	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		06/06/18 18:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		06/06/18 18:54	994-05-8	
Benzene	**7010**	ug/L	500	170	100		06/06/18 18:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		06/06/18 18:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		06/06/18 18:54	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		06/06/18 18:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		06/06/18 18:54	107-06-2	
Diisopropyl ether	ND	ug/L	500	170	100		06/06/18 18:54	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		06/06/18 18:54	64-17-5	
Ethylbenzene	**1050**	ug/L	500	160	100		06/06/18 18:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		06/06/18 18:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	170	100		06/06/18 18:54	1634-04-4	
Naphthalene	**1260**	ug/L	500	200	100		06/06/18 18:54	91-20-3	
Toluene	**13200**	ug/L	500	160	100		06/06/18 18:54	108-88-3	
Xylene (Total)	**13500**	ug/L	500	500	100		06/06/18 18:54	1330-20-7	
m&p-Xylene	**9070**	ug/L	1000	310	100		06/06/18 18:54	179601-23-1	
o-Xylene	**4430**	ug/L	500	160	100		06/06/18 18:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		100		06/06/18 18:54	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		100		06/06/18 18:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		06/06/18 18:54	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No 92386627

Sample: EP-20 **Lab ID: 92386627016** Collected: 05/30/18 12:14 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**704**	ug/L	19.7	19.7	1000	06/05/18 08:30	06/07/18 13:48	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		1000	06/05/18 08:30	06/07/18 13:48	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		06/06/18 19:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		06/06/18 19:11	994-05-8	
Benzene	**7810**	ug/L	500	170	100		06/06/18 19:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		06/06/18 19:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		06/06/18 19:11	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		06/06/18 19:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		06/06/18 19:11	107-06-2	
Diisopropyl ether	**173J**	ug/L	500	170	100		06/06/18 19:11	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		06/06/18 19:11	64-17-5	
Ethylbenzene	**290J**	ug/L	500	160	100		06/06/18 19:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		06/06/18 19:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	170	100		06/06/18 19:11	1634-04-4	
Naphthalene	**1290**	ug/L	500	200	100		06/06/18 19:11	91-20-3	
Toluene	**9720**	ug/L	500	160	100		06/06/18 19:11	108-88-3	
Xylene (Total)	**15600**	ug/L	500	500	100		06/06/18 19:11	1330-20-7	
m&p-Xylene	**10200**	ug/L	1000	310	100		06/06/18 19:11	179601-23-1	
o-Xylene	**5350**	ug/L	500	160	100		06/06/18 19:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		100		06/06/18 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		100		06/06/18 19:11	17060-07-0	
Toluene-d8 (S)	103	%	70-130		100		06/06/18 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Sample: DUP-1 **Lab ID: 92386627017** Collected: 05/30/18 11:49 Received: 05/31/18 06.05 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								
1,2-Dibromoethane (EDB)	**58.1**	ug/L	2 0	2.0	100	06/05/18 08:30	06/07/18 14:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		100	06/05/18 08:30	06/07/18 14:06	301-79-56	S4
8260 MSV	Analytical Method. EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		06/04/18 22 51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68 0	20		06/04/18 22:51	994-05-8	
Benzene	**3010**	ug/L	100	34.0	20		06/04/18 22:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		06/04/18 22:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		06/04/18 22.51	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		06/04/18 22:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		06/04/18 22 51	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		06/04/18 22:51	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		06/04/18 22.51	64-17-5	
Ethylbenzene	**570**	ug/L	100	32 0	20		06/04/18 22:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		06/04/18 22:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		06/04/18 22:51	1634-04-4	
Naphthalene	**528**	ug/L	100	40.0	20		06/04/18 22:51	91-20-3	
Toluene	**3370**	ug/L	100	32.0	20		06/04/18 22.51	108-88-3	
Xylene (Total)	**3960**	ug/L	100	100	20		06/04/18 22:51	1330-20-7	
m&p-Xylene	**2860**	ug/L	200	62 0	20		06/04/18 22.51	179601-23-1	
o-Xylene	**1100**	ug/L	100	32.0	20		06/04/18 22 51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		20		06/04/18 22:51	460-00-4	
1,2-Dichloroethane-d4 (S)	78	%	70-130		20		06/04/18 22:51	17060-07-0	
Toluene-d8 (S)	89	%	70-130		20		06/04/18 22.51	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Sample: FIELD BLANK **Lab ID: 92386627018** Collected: 05/30/18 14:35 Received: 05/31/18 06:05 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								
1,2-Dibromoethane (EDB)	**0.022**	ug/L	0.020	0.020	1	06/05/18 08:30	06/05/18 23:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	06/05/18 08:30	06/05/18 23:34	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		06/04/18 19:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		06/04/18 19:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/04/18 19:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/04/18 19:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/04/18 19:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		06/04/18 19:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		06/04/18 19:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		06/04/18 19:18	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/04/18 19:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		06/04/18 19:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		06/04/18 19:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		06/04/18 19:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		06/04/18 19:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		06/04/18 19:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/04/18 19:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		06/04/18 19:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		06/04/18 19:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/04/18 19:18	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		06/04/18 19:18	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		06/04/18 19:18	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No · 92386627

Sample: TRIP BLANK **Lab ID: 92386627019** Collected. 05/30/18 14:35 Received 05/31/18 06:05 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method. EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76 8	1		06/04/18 19:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3.4	1		06/04/18 19:35	994-05-8	
Benzene	ND	ug/L	5 0	1.7	1		06/04/18 19·35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		06/04/18 19:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		06/04/18 19:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	7.3	1		06/04/18 19.35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		06/04/18 19 35	107-06-2	
Diisopropyl ether	ND	ug/L	5 0	1 7	1		06/04/18 19·35	108-20-3	
Ethanol	ND	ug/L	200	131	1		06/04/18 19:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		06/04/18 19:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	3.6	1		06/04/18 19:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		06/04/18 19:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		06/04/18 19 35	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		06/04/18 19·35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5 0	1		06/04/18 19 35	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3.1	1		06/04/18 19.35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		06/04/18 19:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	77	%	70-130		1		06/04/18 19 35	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		06/04/18 19:35	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		06/04/18 19.35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No: 92386627

QC Batch: 413501 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92386627002, 92386627004, 92386627005, 92386627006

METHOD BLANK: 2293205 Matrix: Water
Associated Lab Samples: 92386627002, 92386627004, 92386627005, 92386627006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	06/03/18 00:56	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	06/03/18 00:56	
Benzene	ug/L	ND	5.0	1.7	06/03/18 00:56	
Diisopropyl ether	ug/L	ND	5.0	1.7	06/03/18 00:56	
Ethanol	ug/L	ND	200	131	06/03/18 00:56	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	06/03/18 00:56	
Ethylbenzene	ug/L	ND	5.0	1.6	06/03/18 00:56	
m&p-Xylene	ug/L	ND	10.0	3.1	06/03/18 00:56	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	06/03/18 00:56	
Naphthalene	ug/L	ND	5.0	2.0	06/03/18 00:56	
o-Xylene	ug/L	ND	5.0	1.6	06/03/18 00:56	
tert-Amyl Alcohol	ug/L	ND	100	76.8	06/03/18 00:56	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	06/03/18 00:56	
tert-Butyl Alcohol	ug/L	ND	100	57.7	06/03/18 00:56	
tert-Butyl Formate	ug/L	ND	50.0	7.3	06/03/18 00:56	
Toluene	ug/L	ND	5.0	1.6	06/03/18 00:56	
Xylene (Total)	ug/L	ND	5.0	5.0	06/03/18 00:56	
1,2-Dichloroethane-d4 (S)	%	97	70-130		06/03/18 00:56	
4-Bromofluorobenzene (S)	%	102	70-130		06/03/18 00:56	
Toluene-d8 (S)	%	109	70-130		06/03/18 00:56	

LABORATORY CONTROL SAMPLE: 2293206

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.7	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	929	93	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Diisopropyl ether	ug/L	50	44.4	89	70-130	
Ethanol	ug/L	2000	1960	98	70-130	
Ethyl-tert-butyl ether	ug/L	100	85.3	85	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
m&p-Xylene	ug/L	100	96.6	97	70-130	
Methyl-tert-butyl ether	ug/L	50	51.0	102	70-130	
Naphthalene	ug/L	50	49.2	98	70-130	
o-Xylene	ug/L	50	49.5	99	70-130	
tert-Amyl Alcohol	ug/L	1000	945	94	70-130	
tert-Amylmethyl ether	ug/L	100	93.6	94	70-130	
tert-Butyl Alcohol	ug/L	500	450	90	70-130	
tert-Butyl Formate	ug/L	400	367	92	70-130	
Toluene	ug/L	50	46.9	94	70-130	

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

LABORATORY CONTROL SAMPLE: 2293206

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2293500 2293501

Parameter	Units	92386627004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	400	400	392	420	94	102	70-130	7	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8000	8300	6650	104	83	70-130	22	30	
Benzene	ug/L	2280	400	400	2200	2740	-19	114	70-130	22	30	M1
Diisopropyl ether	ug/L	ND	400	400	357	425	84	101	70-130	17	30	
Ethanol	ug/L	ND	16000	16000	12700	17000	79	106	70-130	29	30	
Ethyl-tert-butyl ether	ug/L	ND	800	800	693	798	87	100	70-130	14	30	
Ethylbenzene	ug/L	427	400	400	915	808	122	95	70-130	12	30	
m&p-Xylene	ug/L	2450	800	800	3370	2620	115	22	70-130	25	30	M1
Methyl-tert-butyl ether	ug/L	ND	400	400	356	427	89	107	70-130	18	30	
Naphthalene	ug/L	171	400	400	685	562	128	98	70-130	20	30	
o-Xylene	ug/L	919	400	400	1430	1130	127	53	70-130	23	30	M1
tert-Amyl Alcohol	ug/L	ND	8000	8000	7370	8670	92	108	70-130	16	30	
tert-Amylmethyl ether	ug/L	ND	800	800	744	841	93	105	70-130	12	30	
tert-Butyl Alcohol	ug/L	ND	4000	4000	3350	3940	84	98	70-130	16	30	
tert-Butyl Formate	ug/L	ND	3200	3200	2560	2740	80	85	70-130	7	30	
Toluene	ug/L	3190	400	400	2930	4060	-65	216	70-130	32	30	E,M1, R1
Xylene (Total)	ug/L	3370	1200	1200	4800	3760	119	32	70-130	24	30	MS
1,2-Dichloroethane-d4 (S)	%						89	99	70-130			
4-Bromofluorobenzene (S)	%						102	98	70-130			
Toluene-d8 (S)	%						87	115	70-130			

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

QC Batch: 413604 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV SC
Associated Lab Samples: 92386627001, 92386627003

METHOD BLANK: 2293513 | Matrix: Water
Associated Lab Samples: 92386627001, 92386627003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5 0	1.8	06/04/18 13:58	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32 1	06/04/18 13:58	
Benzene	ug/L	ND	5 0	1.7	06/04/18 13:58	
Diisopropyl ether	ug/L	ND	5.0	1.7	06/04/18 13:58	
Ethanol	ug/L	ND	200	131	06/04/18 13:58	
Ethyl-tert-butyl ether	ug/L	ND	10 0	3.6	06/04/18 13:58	
Ethylbenzene	ug/L	ND	5.0	1.6	06/04/18 13:58	
m&p-Xylene	ug/L	ND	10 0	3.1	06/04/18 13:58	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	06/04/18 13:58	
Naphthalene	ug/L	ND	5 0	2.0	06/04/18 13:58	
o-Xylene	ug/L	ND	5.0	1.6	06/04/18 13:58	
tert-Amyl Alcohol	ug/L	ND	100	76.8	06/04/18 13.58	
tert-Amylmethyl ether	ug/L	ND	10 0	3.4	06/04/18 13:58	
tert-Butyl Alcohol	ug/L	ND	100	57.7	06/04/18 13:58	
tert-Butyl Formate	ug/L	ND	50 0	7 3	06/04/18 13:58	
Toluene	ug/L	ND	5 0	1 6	06/04/18 13:58	
Xylene (Total)	ug/L	ND	5 0	5 0	06/04/18 13:58	
1,2-Dichloroethane-d4 (S)	%	100	70-130		06/04/18 13:58	
4-Bromofluorobenzene (S)	%	113	70-130		06/04/18 13:58	
Toluene-d8 (S)	%	109	70-130		06/04/18 13:58	

LABORATORY CONTROL SAMPLE: 2293514

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	762	76	70-130	
Benzene	ug/L	50	52 7	105	70-130	
Diisopropyl ether	ug/L	50	45.5	91	70-130	
Ethanol	ug/L	2000	1980	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	88 0	88	70-130	
Ethylbenzene	ug/L	50	47.0	94	70-130	
m&p-Xylene	ug/L	100	92.2	92	70-130	
Methyl-tert-butyl ether	ug/L	50	52 1	104	70-130	
Naphthalene	ug/L	50	41.7	83	70-130	
o-Xylene	ug/L	50	49.7	99	70-130	
tert-Amyl Alcohol	ug/L	1000	899	90	70-130	
tert-Amylmethyl ether	ug/L	100	94 7	95	70-130	
tert-Butyl Alcohol	ug/L	500	429	86	70-130	
tert-Butyl Formate	ug/L	400	377	94	70-130	
Toluene	ug/L	50	48 7	97	70-130	

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

LABORATORY CONTROL SAMPLE: 2293514

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			115	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294609 2294610

Parameter	Units	92386593013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	4000	4000	3940	3750	98	94	70-130	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	80000	80000	73500	69700	92	87	70-130	5	30	
Benzene	ug/L	5060	4000	4000	9140	8900	102	96	70-130	3	30	
Diisopropyl ether	ug/L	ND	4000	4000	3900	3760	94	91	70-130	3	30	
Ethanol	ug/L	ND	160000	160000	151000	148000	94	92	70-130	2	30	
Ethyl-tert-butyl ether	ug/L	ND	8000	8000	7810	7550	98	94	70-130	3	30	
Ethylbenzene	ug/L	3850	4000	4000	7270	7130	85	82	70-130	2	30	
m&p-Xylene	ug/L	14400	8000	8000	20200	19700	72	67	70-130	2	30	M1
Methyl-tert-butyl ether	ug/L	466J	4000	4000	4450	4510	100	101	70-130	1	30	
Naphthalene	ug/L	640J	4000	4000	4260	4320	91	92	70-130	1	30	
o-Xylene	ug/L	6600	4000	4000	9750	9560	79	74	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	80000	80000	77600	73200	97	92	70-130	6	30	
tert-Amylmethyl ether	ug/L	ND	8000	8000	8000	7820	100	98	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	40000	40000	34400	32200	86	81	70-130	6	30	
tert-Butyl Formate	ug/L	ND	32000	32000	29500	28800	92	90	70-130	2	30	
Toluene	ug/L	30300	4000	4000	30800	29900	11	-9	70-130	3	30	M1
Xylene (Total)	ug/L	21000	12000	12000	29900	29300	75	70	70-130	2	30	MS
1,2-Dichloroethane-d4 (S)	%						92	93	70-130			
4-Bromofluorobenzene (S)	%						97	98	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No · 92386627

QC Batch· 413639 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples· 92386627008, 92386627009, 92386627012, 92386627017, 92386627018, 92386627019

METHOD BLANK 2293759 Matrix· Water
Associated Lab Samples. 92386627008, 92386627009, 92386627012, 92386627017, 92386627018, 92386627019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1 8	06/04/18 14:16	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	06/04/18 14:16	
Benzene	ug/L	ND	5.0	1 7	06/04/18 14:16	
Diisopropyl ether	ug/L	ND	5.0	1 7	06/04/18 14:16	
Ethanol	ug/L	ND	200	131	06/04/18 14:16	
Ethyl-tert-butyl ether	ug/L	ND	10 0	3.6	06/04/18 14:16	
Ethylbenzene	ug/L	ND	5.0	1.6	06/04/18 14:16	
m&p-Xylene	ug/L	ND	10 0	3.1	06/04/18 14:16	
Methyl-tert-butyl ether	ug/L	ND	5 0	1.7	06/04/18 14:16	
Naphthalene	ug/L	ND	5 0	2.0	06/04/18 14:16	
o-Xylene	ug/L	ND	5.0	1.6	06/04/18 14.16	
tert-Amyl Alcohol	ug/L	ND	100	76 8	06/04/18 14:16	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	06/04/18 14:16	
tert-Butyl Alcohol	ug/L	ND	100	57.7	06/04/18 14:16	
tert-Butyl Formate	ug/L	ND	50 0	7 3	06/04/18 14:16	
Toluene	ug/L	ND	5.0	1 6	06/04/18 14 16	
Xylene (Total)	ug/L	ND	5.0	5 0	06/04/18 14:16	
1,2-Dichloroethane-d4 (S)	%	91	70-130		06/04/18 14:16	
4-Bromofluorobenzene (S)	%	112	70-130		06/04/18 14:16	
Toluene-d8 (S)	%	110	70-130		06/04/18 14:16	

LABORATORY CONTROL SAMPLE: 2293760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47 6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	950	95	70-130	
Benzene	ug/L	50	54.8	110	70-130	
Diisopropyl ether	ug/L	50	47.7	95	70-130	
Ethanol	ug/L	2000	2050	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	90 6	91	70-130	
Ethylbenzene	ug/L	50	49.4	99	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	49 7	99	70-130	
Naphthalene	ug/L	50	48 6	97	70-130	
o-Xylene	ug/L	50	50 3	101	70-130	
tert-Amyl Alcohol	ug/L	1000	980	98	70-130	
tert-Amylmethyl ether	ug/L	100	98.5	98	70-130	
tert-Butyl Alcohol	ug/L	500	463	93	70-130	
tert-Butyl Formate	ug/L	400	396	99	70-130	
Toluene	ug/L	50	49 6	99	70-130	

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

LABORATORY CONTROL SAMPLE: 2293760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2294613 2294614

Parameter	Units	92386627012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	1000	1000	955	936	95	94	70-130	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	17300	17800	86	89	70-130	3	30	
Benzene	ug/L	1020	1000	1000	2010	2030	99	101	70-130	1	30	
Diisopropyl ether	ug/L	ND	1000	1000	975	981	97	98	70-130	1	30	
Ethanol	ug/L	ND	40000	40000	35600	38400	89	96	70-130	8	30	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1880	1880	94	94	70-130	0	30	
Ethylbenzene	ug/L	2550	1000	1000	3170	3440	63	89	70-130	8	30	M1
m&p-Xylene	ug/L	10300	2000	2000	10300	11300	-2	49	70-130	9	30	M1
Methyl-tert-butyl ether	ug/L	ND	1000	1000	928	936	93	94	70-130	1	30	
Naphthalene	ug/L	686	1000	1000	1480	1610	80	92	70-130	8	30	
o-Xylene	ug/L	4550	1000	1000	4850	5190	30	64	70-130	7	30	M1
tert-Amyl Alcohol	ug/L	ND	20000	20000	18600	18800	93	94	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	1940	1900	97	95	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	8350	8600	83	86	70-130	3	30	
tert-Butyl Formate	ug/L	ND	8000	8000	6140	6100	77	76	70-130	1	30	
Toluene	ug/L	4120	1000	1000	4660	4870	53	75	70-130	5	30	M1
Xylene (Total)	ug/L	14900	3000	3000	15200	16500	9	54	70-130	9	30	MS
1,2-Dichloroethane-d4 (S)	%						91	90	70-130			
4-Bromofluorobenzene (S)	%						97	98	70-130			
Toluene-d8 (S)	%						101	98	70-130			

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No · 92386627

QC Batch· 413666 Analysis Method EPA 8260
QC Batch Method. EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples. 92386627014

METHOD BLANK: 2293941 Matrix Water
Associated Lab Samples 92386627014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5 0	1.8	06/07/18 01·38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32 1	06/07/18 01:38	
Benzene	ug/L	ND	5 0	1.7	06/07/18 01:38	
Diisopropyl ether	ug/L	ND	5 0	1.7	06/07/18 01:38	
Ethanol	ug/L	ND	200	131	06/07/18 01:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	06/07/18 01:38	
Ethylbenzene	ug/L	ND	5.0	1.6	06/07/18 01:38	
m&p-Xylene	ug/L	ND	10 0	3.1	06/07/18 01·38	
Methyl-tert-butyl ether	ug/L	ND	5 0	1.7	06/07/18 01 38	
Naphthalene	ug/L	ND	5 0	2.0	06/07/18 01:38	
o-Xylene	ug/L	ND	5.0	1.6	06/07/18 01:38	
tert-Amyl Alcohol	ug/L	ND	100	76.8	06/07/18 01:38	
tert-Amylmethyl ether	ug/L	ND	10 0	3.4	06/07/18 01:38	
tert-Butyl Alcohol	ug/L	ND	100	57.7	06/07/18 01:38	
tert-Butyl Formate	ug/L	ND	50.0	7.3	06/07/18 01:38	
Toluene	ug/L	ND	5.0	1.6	06/07/18 01:38	
Xylene (Total)	ug/L	ND	5.0	5.0	06/07/18 01:38	
1,2-Dichloroethane-d4 (S)	%	97	70-130		06/07/18 01.38	
4-Bromofluorobenzene (S)	%	102	70-130		06/07/18 01.38	
Toluene-d8 (S)	%	105	70-130		06/07/18 01:38	

LABORATORY CONTROL SAMPLE. 2293942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45 7	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	842	84	70-130	
Benzene	ug/L	50	48 7	97	70-130	
Diisopropyl ether	ug/L	50	50 6	101	70-130	
Ethanol	ug/L	2000	1790	90	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.9	97	70-130	
Ethylbenzene	ug/L	50	45.6	91	70-130	
m&p-Xylene	ug/L	100	92.3	92	70-130	
Methyl-tert-butyl ether	ug/L	50	50.4	101	70-130	
Naphthalene	ug/L	50	46 5	93	70-130	
o-Xylene	ug/L	50	47.1	94	70-130	
tert-Amyl Alcohol	ug/L	1000	895	89	70-130	
tert-Amylmethyl ether	ug/L	100	94 4	94	70-130	
tert-Butyl Alcohol	ug/L	500	416	83	70-130	
tert-Butyl Formate	ug/L	400	379	95	70-130	
Toluene	ug/L	50	46.1	92	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

LABORATORY CONTROL SAMPLE. 2293942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294752 2294753

Parameter	Units	92386627014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	5000	5000	5050	4990	101	100	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100000	100000	77400	86100	77	86	70-130	11	30	
Benzene	ug/L	28800	5000	5000	34200	34400	107	111	70-130	1	30	
Diisopropyl ether	ug/L	ND	5000	5000	5540	5520	105	105	70-130	0	30	
Ethanol	ug/L	ND	200000	200000	184000	205000	92	103	70-130	11	30	
Ethyl-tert-butyl ether	ug/L	ND	10000	10000	9860	9710	99	97	70-130	2	30	
Ethylbenzene	ug/L	2430	5000	5000	7390	7360	99	99	70-130	0	30	
m&p-Xylene	ug/L	8420	10000	10000	18200	18200	98	98	70-130	0	30	
Methyl-tert-butyl ether	ug/L	ND	5000	5000	5070	4790	101	96	70-130	6	30	
Naphthalene	ug/L	614J	5000	5000	5040	5230	89	92	70-130	4	30	
o-Xylene	ug/L	4000	5000	5000	9060	9000	101	100	70-130	1	30	
tert-Amyl Alcohol	ug/L	ND	100000	100000	92600	98000	93	98	70-130	6	30	
tert-Amylmethyl ether	ug/L	ND	10000	10000	9390	9430	94	94	70-130	0	30	
tert-Butyl Alcohol	ug/L	ND	50000	50000	42500	43500	85	87	70-130	2	30	
tert-Butyl Formate	ug/L	ND	40000	40000	32300	32300	81	81	70-130	0	30	
Toluene	ug/L	36600	5000	5000	40900	41200	87	92	70-130	1	30	
Xylene (Total)	ug/L	12400	15000	15000	27300	27200	99	99	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						95	93	70-130			
4-Bromofluorobenzene (S)	%						97	95	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No · 92386627

QC Batch 413822 Analysis Method: EPA 8260
QC Batch Method. EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92386627007, 92386627010, 92386627011, 92386627013, 92386627015, 92386627016

METHOD BLANK: 2294668 Matrix· Water
Associated Lab Samples: 92386627007, 92386627010, 92386627011, 92386627013, 92386627015, 92386627016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5 0	1.8	06/06/18 14:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	06/06/18 14:09	
Benzene	ug/L	ND	5 0	1 7	06/06/18 14:09	
Diisopropyl ether	ug/L	ND	5.0	1.7	06/06/18 14:09	
Ethanol	ug/L	ND	200	131	06/06/18 14:09	
Ethyl-tert-butyl ether	ug/L	ND	10 0	3.6	06/06/18 14:09	
Ethylbenzene	ug/L	ND	5.0	1.6	06/06/18 14:09	
m&p-Xylene	ug/L	ND	10.0	3.1	06/06/18 14:09	
Methyl-tert-butyl ether	ug/L	ND	5 0	1.7	06/06/18 14·09	
Naphthalene	ug/L	ND	5.0	2.0	06/06/18 14·09	
o-Xylene	ug/L	ND	5.0	1.6	06/06/18 14 09	
tert-Amyl Alcohol	ug/L	ND	100	76 8	06/06/18 14 09	
tert-Amylmethyl ether	ug/L	ND	10 0	3.4	06/06/18 14:09	
tert-Butyl Alcohol	ug/L	ND	100	57.7	06/06/18 14:09	
tert-Butyl Formate	ug/L	ND	50.0	7.3	06/06/18 14:09	
Toluene	ug/L	ND	5.0	1.6	06/06/18 14:09	
Xylene (Total)	ug/L	ND	5.0	5.0	06/06/18 14:09	
1,2-Dichloroethane-d4 (S)	%	98	70-130		06/06/18 14:09	
4-Bromofluorobenzene (S)	%	101	70-130		06/06/18 14:09	
Toluene-d8 (S)	%	106	70-130		06/06/18 14:09	

LABORATORY CONTROL SAMPLE 2294669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	896	90	70-130	
Benzene	ug/L	50	50.7	101	70-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
Ethanol	ug/L	2000	1870	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.5	99	70-130	
Ethylbenzene	ug/L	50	48.8	98	70-130	
m&p-Xylene	ug/L	100	96.1	96	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Naphthalene	ug/L	50	46.1	92	70-130	
o-Xylene	ug/L	50	49.5	99	70-130	
tert-Amyl Alcohol	ug/L	1000	960	96	70-130	
tert-Amylmethyl ether	ug/L	100	99 6	100	70-130	
tert-Butyl Alcohol	ug/L	500	430	86	70-130	
tert-Butyl Formate	ug/L	400	390	97	70-130	
Toluene	ug/L	50	48.1	96	70-130	

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No 92386627

LABORATORY CONTROL SAMPLE 2294669

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294670 2294671

Parameter	Units	92386627013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	562J	5000	5000	5260	5440	94	98	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100000	100000	74200	77400	74	77	70-130	4	30	
Benzene	ug/L	30600	5000	5000	35200	34300	92	74	70-130	3	30	
Diisopropyl ether	ug/L	694J	5000	5000	5670	5570	99	97	70-130	2	30	
Ethanol	ug/L	ND	200000	200000	181000	189000	91	94	70-130	4	30	
Ethyl-tert-butyl ether	ug/L	ND	10000	10000	9520	9460	95	95	70-130	1	30	
Ethylbenzene	ug/L	2700	5000	5000	7600	7520	98	96	70-130	1	30	
m&p-Xylene	ug/L	9620	10000	10000	19400	19100	98	95	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	5000	5000	4970	4990	99	100	70-130	0	30	
Naphthalene	ug/L	956J	5000	5000	5220	5190	85	85	70-130	0	30	
o-Xylene	ug/L	4340	5000	5000	9280	9140	99	96	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	100000	100000	83700	84100	84	84	70-130	0	30	
tert-Amylmethyl ether	ug/L	ND	10000	10000	9070	9280	91	93	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	50000	50000	38200	39000	76	78	70-130	2	30	
tert-Butyl Formate	ug/L	ND	40000	40000	32200	32300	81	81	70-130	0	30	
Toluene	ug/L	38600	5000	5000	41700	40300	62	35	70-130	3	30	M1
Xylene (Total)	ug/L	14000	15000	15000	28700	28200	98	95	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						94	92	70-130			
4-Bromofluorobenzene (S)	%						96	97	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No. 92386627

QC Batch 413624 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92386627001, 92386627002, 92386627003, 92386627004, 92386627005, 92386627007, 92386627008

METHOD BLANK: 2293643 Matrix. Water
Associated Lab Samples: 92386627001, 92386627002, 92386627003, 92386627004, 92386627005, 92386627007, 92386627008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0 020	0.020	06/05/18 15:28	
1-Chloro-2-bromopropane (S)	%	102	60-140		06/05/18 15:28	

LABORATORY CONTROL SAMPLE & LCSD. 2293644 2293645

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0 24	0.23	96	91	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				96	92	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2293646 2293647

Parameter	Units	92386622010 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	.25	.25	0 21	0.21	85	85	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						89	88	60-140			

SAMPLE DUPLICATE. 2293648

Parameter	Units	92386622011 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	101	3		

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

QC Batch: 413783 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92386627009, 92386627010, 92386627011, 92386627012, 92386627013, 92386627014, 92386627015, 92386627016, 92386627017, 92386627018

METHOD BLANK: 2294484 Matrix: Water
Associated Lab Samples: 92386627009, 92386627010, 92386627011, 92386627012, 92386627013, 92386627014, 92386627015, 92386627016, 92386627017, 92386627018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	06/05/18 18:24	
1-Chloro-2-bromopropane (S)	%	132	60-140		06/05/18 18:24	

LABORATORY CONTROL SAMPLE & LCSD: 2294485 2294486

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	0.22	96	89	60-140	8	20	
1-Chloro-2-bromopropane (S)	%				111	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2294487 2294488

Parameter	Units	92386627011 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	.24	.24	0.20	0.19	82	80	60-140	3	20	
1-Chloro-2-bromopropane (S)	%						97	100	60-140			

SAMPLE DUPLICATE: 2294489

Parameter	Units	92386627018 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.022	ND		20	
1-Chloro-2-bromopropane (S)	%	96	104	9		

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QUALITY CONTROL DATA

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No. 92386627

QC Batch: 414087
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92386627006

METHOD BLANK: 2296310
Matrix: Water
Associated Lab Samples: 92386627006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0 020	0.020	06/06/18 16.42	
1-Chloro-2-bromopropane (S)	%	114	60-140		06/06/18 16 42	

LABORATORY CONTROL SAMPLE & LCSD: 2296311 2296312

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.24	0.25	101	103	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				96	94	60-140			

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QUALIFIERS

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No.: 92386627

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.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER RED DIAMO 14324/18-6368
Pace Project No : 92386627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92386627001	MW-2	EPA 8011	413624	EPA 8011	413684
92386627002	MW-5	EPA 8011	413624	EPA 8011	413684
92386627003	MW-12	EPA 8011	413624	EPA 8011	413684
92386627004	MW-13	EPA 8011	413624	EPA 8011	413684
92386627005	MW-19R	EPA 8011	413624	EPA 8011	413684
92386627006	MW-20	EPA 8011	414087	EPA 8011	414102
92386627007	MW-22	EPA 8011	413624	EPA 8011	413684
92386627008	MW-24	EPA 8011	413624	EPA 8011	413684
92386627009	MW-25	EPA 8011	413783	EPA 8011	413867
92386627010	DW-1	EPA 8011	413783	EPA 8011	413867
92386627011	RW-2	EPA 8011	413783	EPA 8011	413867
92386627012	RW-3	EPA 8011	413783	EPA 8011	413867
92386627013	RW-4	EPA 8011	413783	EPA 8011	413867
92386627014	RW-5	EPA 8011	413783	EPA 8011	413867
92386627015	EP-16	EPA 8011	413783	EPA 8011	413867
92386627016	EP-20	EPA 8011	413783	EPA 8011	413867
92386627017	DUP-1	EPA 8011	413783	EPA 8011	413867
92386627018	FIELD BLANK	EPA 8011	413783	EPA 8011	413867
92386627001	MW-2	EPA 8260	413604		
92386627002	MW-5	EPA 8260	413501		
92386627003	MW-12	EPA 8260	413604		
92386627004	MW-13	EPA 8260	413501		
92386627005	MW-19R	EPA 8260	413501		
92386627006	MW-20	EPA 8260	413501		
92386627007	MW-22	EPA 8260	413822		
92386627008	MW-24	EPA 8260	413639		
92386627009	MW-25	EPA 8260	413639		
92386627010	DW-1	EPA 8260	413822		
92386627011	RW-2	EPA 8260	413822		
92386627012	RW-3	EPA 8260	413639		
92386627013	RW-4	EPA 8260	413822		
92386627014	RW-5	EPA 8260	413666		
92386627015	EP-16	EPA 8260	413822		
92386627016	EP-20	EPA 8260	413822		
92386627017	DUP-1	EPA 8260	413639		
92386627018	FIELD BLANK	EPA 8260	413639		
92386627019	TRIP BLANK	EPA 8260	413639		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: MEC

Project # WO#: 92386627

92386627

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 05/31/18

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 92T040 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 2.0 **Correction Factor:** Add/Subtract (°C) +0.4

Cooler Temp Corrected (°C): 2.4

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on Ice, cooling process has begun

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☑ No	☐ 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: TC **Date:** 6/1/18

Project Manager SRF Review: TC **Date:** 6/1/18

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # WO#: 92386627

PM: RWC Due Date: 06/07/18

CLIENT: 92-MIDLAND

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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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 DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # WO#: 92386627

PM: RWC Due Date: 06/07/18

CLIENT: 92-MIDLAND

pa2

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

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

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

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

Project # **WO# : 92386627**

PM: RWC Due Date: 06/07/18

CLIENT: 92-MIDLAND

p93

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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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 DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

2241340

Section A Required Client Information:

Company: MECI
Address: 231 Dooley Rd. Lexington, SC 29072
Email To: *Mc@meci.net
Phone: 803-808-2043 Fax: 803-808-2045
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Shane
Copy To:
Purchase Order No.:
Project Name: Former RW Diamond
Project Number: UST 14924 / 18-6368

Section C Invoice Information:

Attention: T. Carter
Company Name: Pace Analytical
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC — Oconee

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: BTEX NM 8260B	1,2 DCA 8260B	Oxy 8260B	EPB 504.1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92366627
1	MW-1								6															DNS
2	MW-2	WT	G			5-30-18	12:15		6				X						X	X	X	X		Strong odor 001
3	MW-3																							DNS
4	MW-4																							DNS
5	MW-5	WT	G			5-30-18	13:33		6				X						X	X	X	X		No odor 002
6	MW-12	1	1			1	11:50		1				1						1	1	1	1		Slight odor 003
7	MW-13	WT	G			5-30-18	11:49		6				X						X	X	X	X		odor, sheen 004
8	MW-19																							DNS
9	MW-19R	WT	G			5-30-18	11:27		6				X						X	X	X	X		No odor 005
10	MW-20	WT	G			5-30-18	12:02		6				X						X	X	X	X		No odor 006
11	MW-21																							DNS
12	MW-22	WT	G			5-30-18	12:03		6				X						X	X	X	X		No odor 007

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kyle Jacobs	05-30-18	0605		5/31/18	0605	
	Chuck Tant Pace	5/31/18	0940		5/31/18	0940	2 4 N N

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Jacobs
SIGNATURE of SAMPLER: Kyle Jacobs
DATE Signed (MM/DD/YY): 05-30-18

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2	4	N	N

Pace Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 3

2240732

Section A Required Client Information:

Company: MECI
Address: 231 Wooley Rd.
Lexington, SC 29072
Email To: jla@meci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: Former Red Diamond
Project Number: UST 14324 / 18-6368

Section C Invoice Information:

Attention: T. Carter
Company Name: Pace Analytical
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC — Oconee

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: BTEX NM 8260B	1,2 DCA 8260B	Oxy 8260B	EDB 8011	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9238662.7
1	MW-23																							DNS
2	MW-24	WT	G			5-30-18	12:29		6				X					X	X	X	X			Slight odor C08
3	MW-25	WT	G			5-30-18	12:81		6				X					X	X	X	X			no odor C09
4	MW-26																							Product, DNS
5	DW-1	WT	G			5-30-18	11:36		6				X					X	X	X	X			No odor C10
6	RW-1																							DNS
7	RW-2	WT	G			5-30-18	14:31		6				X					X	X	X	X			odor C11
8	RW-3	WT	G			5-30-18	14:04		6				X					X	X	X	X			Sheen, Strong odor C12
9	RW-4	WT	G			5-30-18	13:39		6				X					X	X	X	X			Sheen, Strong odor C13
10	RW-5	WT	G			5-30-18	14:03		6				X					X	X	X	X			Odor C14
11	EP-4																							DNS
12	EP-12																							DNS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		05-30-18	0605		5/31/18	0605				
		5/31/18	0940		5/31/18	0940	2 4	4	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Jacobs

SIGNATURE of SAMPLER: Kyle Jacobs — DATE Signed (MM/DD/YY): 05/30/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 3

2240730

Section A Required Client Information:

Company:	MFCI
Address:	231 Dooley Rd. Lexington, SC 29072
Email To:	jle@mecinet
Phone:	803-808-2043
Fax:	803-808-2048
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	B. Shane
Copy To:	
Purchase Order No.:	
Project Name:	Former Red Diamond
Project Number:	UST 14524 / 13-6368

Section C Invoice Information:

Attention:	T. Carter
Company Name:	Pace Analytical
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐
UST ☑ RCRA ☐ OTHER ☐

Site Location STATE: SC — Oconee

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: BTEX NM 8260B	1,2 DCA 8260B	Oxy 8260B	EDB 8011	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EP-16	WT	G			5-30-18	13:09		6				X					X	X	X	X		015
2	EP-20	1	1			1	12:14		1				X					1	1	1	1		016
3	Dup-1	WT	G			5-30-18	11:49		6				X					X	X	X	X		017
4	Dup-2																						
5	Field Blank	WT	G			5-30-18	14:35		6				X					X	X	X	X		FB 018
6	Trip Blank	WT	G			5-30-18	14:35		2				X					X	X	X			TB 019
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Kyle Jacobs	05-30-18	0605		5/30/18	0625				
		5/31/18	0940		5/31/18	0940	24	4	NY	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Jacobs

SIGNATURE of SAMPLER: Kyle Jacobs

DATE Signed (MM/DD/YY): 05-30-18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:

WELL COMPLETION LOGS & 1903 FORMS

(Not Applicable)

APPENDIX F:

AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

(Not Applicable)

APPENDIX G:

DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

June 25, 2018

Re: Treatment of Purge Water
Unknown UST# 14324
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 18-6368

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.

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

A total of 119.0 gallons were treated on May 30, 2018, 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 H:

LOCAL ZONING REGULATIONS

(Not Applicable)

APPENDIX I:

FATE AND TRANSPORT MODELING

(Not Applicable)

APPENDIX J:

ACCESS AGREEMENTS

(Not Applicable)

APPENDIX K:

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 5)	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 B)	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? (Table 1)			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? (Tables 3)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			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 4, 4A)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			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? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			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 K)	X		

dhec
Healthy People. Healthy Communities.

BETTY LATHEM – TRUSTEE
2 STRATTON PL
GREENVILLE SC 29615

FEB 0 7 2019

UST 67 Week DOCKETING

Re: **SSWP Request for MW Installation**
UST – UNKNOWN 14324, 519 E N 1st ST, Seneca, SC
UST Permit #14324
Release reported December 30, 1991
Monitoring report received August 10, 2018
Oconee County

Dear Ms. Lathem:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Midlands Environmental Consultants Inc. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs). To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation is necessary.

The next appropriate scope of work at the site is to replace monitoring well MW-21 and install four shallow and two deep monitoring wells in the vicinity of the proposed monitoring well locations indicated on the enclosed site map. The assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

Your contractor must complete the Site-Specific Work Plan (SSWP) if your contractor has an approved Annual Contractor Quality Assurance Plan (ACQAP). The SSWP and Cost Proposal must be submitted within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

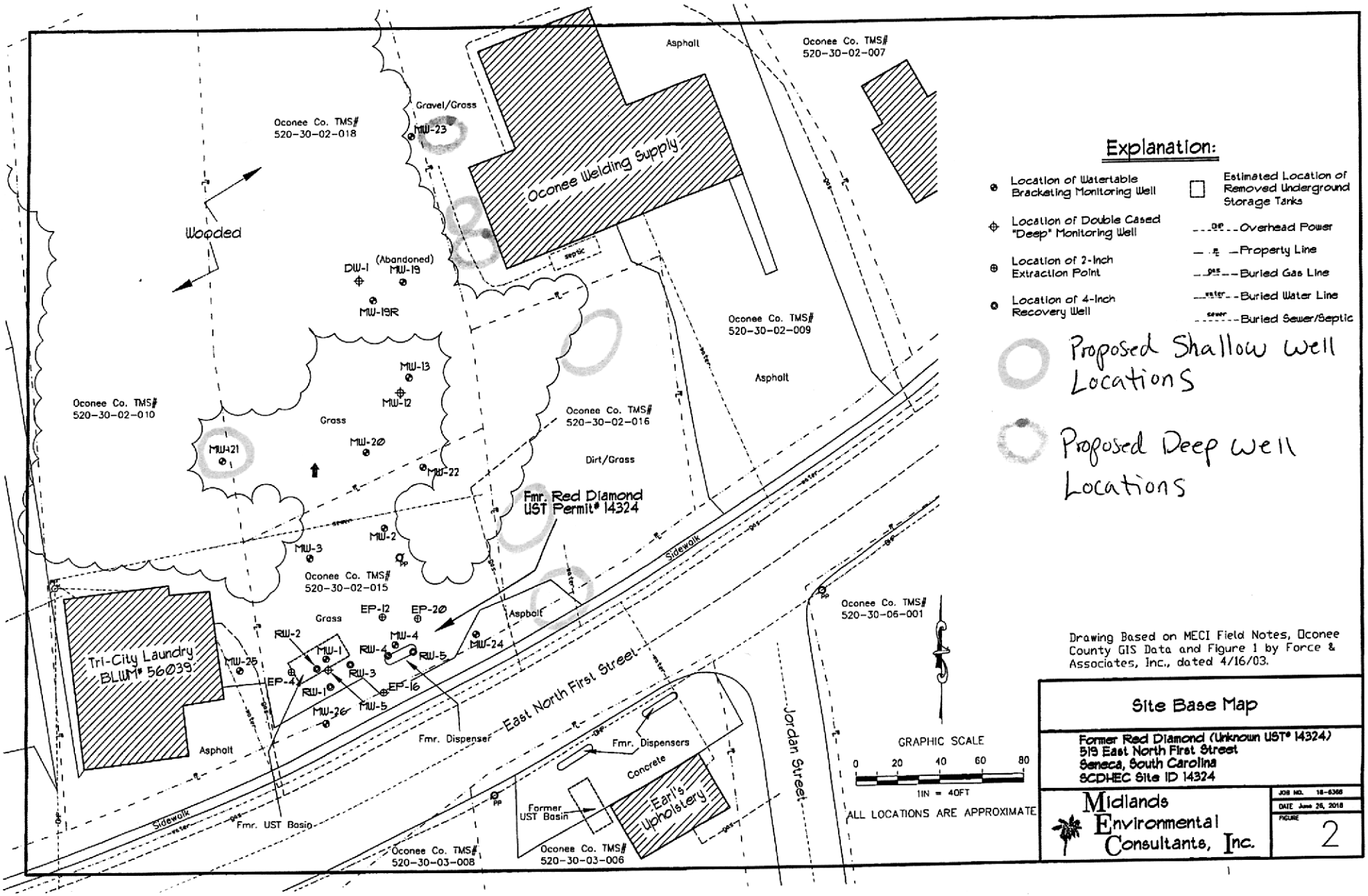
On all correspondence regarding this site, please reference UST Permit #14324. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-2832, fax me at (803) 898-0673, or e-mail me at ageebd@dhec.sc.gov.

Sincerely,

Bryan Agee, Hydrogeologist
Corrective Action and Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Site Map

cc: Midlands Environmental Consultants Inc, PO Box 854, Lexington, SC 29071 (w/enc.)
Technical File (w/enc.)


Oconee Co. TMS#
520-30-02-018
Gravel/Grass
MW-23
Asphalt
Oconee Co. TMS#
520-30-02-007
Oconee Welding Supply
Wooded
DW-1
(Abandoned)
MW-19
MW-19R
septic
Oconee Co. TMS#
520-30-02-009
Asphalt
MW-13
MW-12
Oconee Co. TMS#
520-30-02-010
Grass
MW-20
Oconee Co. TMS#
520-30-02-016
MW-21
MW-22
Dirt/Grass
Fmr. Red Diamond
UST Permit# 14324
MW-2
MW-3
Oconee Co. TMS#
520-30-02-015
Sidewalk
Oconee Co. TMS#
520-30-06-001
EP-12
EP-20
Grass
Asphalt
RW-2
MW-4
MW-24
MW-1
RW-4
RW-5
Tri-City Laundry
BLWM# 56039
MW-25
EP-4
RW-3
EP-16
RW-1
MW-26
MW-5
Fmr. Dispenser
East North First Street
Asphalt
Fmr. Dispensers
Concrete
Jordan Street
Earl's
Upholstery
Former
UST Basin
Fmr. UST Basin
Sidewalk
Oconee Co. TMS#
520-30-03-008
Oconee Co. TMS#
520-30-03-006
GRAPHIC SCALE
0 20 40 60 80
1IN = 40FT
ALL LOCATIONS ARE APPROXIMATE
Explanation:
Location of Waterable Bracketing Monitoring Well
Location of Double Cased "Deep" Monitoring Well
Location of 2-Inch Extraction Point
Location of 4-Inch Recovery Well
Estimated Location of Removed Underground Storage Tanks
Overhead Power
Property Line
Buried Gas Line
Buried Water Line
Buried Sewer/Septic
Proposed Shallow Well Locations
Proposed Deep Well Locations
Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.
Site Base Map
Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324
Midlands Environmental Consultants, Inc.
JOB NO. 18-6368
DATE June 26, 2018
FIGURE 2

dhec
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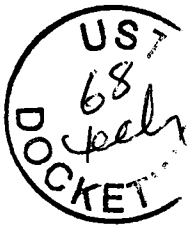
FEB 1 1 2019



BETTY LATHEM – TRUSTEE
2 STRATTON PL
GREENVILLE SC 29615

Re: **Aggressive Fluid and Vapor Recovery (AFVR) Notice to Proceed**
UST – UNKNOWN 14324, 519 E N 1st ST, Seneca, SC
UST Permit #14324; CA #58974
Release reported December 30, 1991
Monitoring report received August 10, 2018
Oconee County

Dear Ms. Lathem:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (COC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). Two 96-hour events should be performed. Event 1 should utilize wells EP-4, MW-26 and RW-2. Event 2 should utilize wells RW-3, RW-4 and RW-5. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of one foot from the bottom of each well. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth within the first eight (8) hours of each event. Thereafter, the stingers should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the DHEC QAPP for the Underground Storage Tank Division is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

As soon as the beginning date of the event has been scheduled, please contact me at ageebd@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit #14324. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-2832, by fax at (803) 898-0673, or by e-mail at ageebd@dhec.sc.gov.

Sincerely,



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

enc: Approved Cost Agreement

cc: Midlands Environmental Consultants Inc, PO Box 854, Lexington, SC 29071 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 58974

Facility: 14324 UST - UNKNOWN 14324
AGEEBD
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$45,281.250	5,433.75
23 EFR					
		A4 96 HOUR EVENT	2.0000	$12,567.500	25,135.00
		C4 OFF GAS TREATMENT 96 HOUR	2.0000	$780.000	1,560.00
		D SITE RECONNAISSANCE	1.0000	$203.250	203.25
		F1 EFFLUENT DISPOSAL	40,000.0000	$0.440	17,600.00
		G AFVR EQUIPMENT MOB	2.0000	$391.500	783.00
			Total Amount		50,715.00

Midlands
Environmental
Consultants, Inc.

February 21, 2019





Mr. Bryan Agee, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
Unknown UST 14324 (Former Red Diamond)
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 19-6823
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Agee,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On February 18, 2019, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

To: Mr. Bryan Agee (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Unknown UST 14324 (Former Red Diamond) UST Permit #: 14324
Facility Address: 519 East North 1st Street, Seneca, SC
Responsible Party: Ms. Betty Lathem Phone: 864-288-6480
RP Address: 2 Stratton Place, Greenville, SC 29615
Property Owner (if different): Anthony Smith
Property Owner Address: 146 Emerald Road, Seneca, SC 29678
Current Use of Property: Vacant Lot

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

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ 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.)

_____ 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: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 5 Estimated Footage: 40' (Screened 30-40) feet per point
# of deep wells: 2 Estimated Footage: 65' (Screened 60-65) feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

UST Permit #: 14324 Facility Name: Unknown UST 14324 (Former Red Diamond)

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 2/21/2019 Field Work Completion: 3/21/2019
Report Submittal: 4/21/2019 # of Copies Provided to Property Owners: 0

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

Investigation Derived Waste Disposal
Soil: 6.0 Tons Purge Water: 300.0 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

-MECI will replace monitoring well MW-21 and install four shallow wells as close to the proposed locations as possible. The shallow wells will be screened approximately 30-40' below ground surface. Two deep wells will also be installed as close to the proposed locations as possible. The deep wells will be screened approximately 60-65' below ground surface.
-Following well installation, the newly completed wells will be developed and surveyed.

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: _____

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

None 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
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ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Unknown UST 14324 (Former Red Diamond)

UST Permit #: 14324 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment	1	each	$1,020.00	$1,020.00
B1. Personnel	3	each	$423.00	$1,269.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)	200	per foot	$38.00	$7,600.00
CC. Telescoping	130	per foot	$50.00	$6,500.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge		per well/receptor	$60.00	$0.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater No Purge or Duplicate		per well/receptor	$28.00	$0.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank		each	$24.60	$0.00
I. Groundwater (low flow purge)		per well/receptor	$91.00	$0.00

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	$122.00	$0.00
AA1. Lead, Filtered		per sample	$13.80	$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60	$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40	$0.00
D1. PAH's		per sample	$60.60	$0.00
E1. Lead		per sample	$16.00	$0.00
F1. EDB by EPA 8011		per sample	$45.20	$0.00
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20	$0.00
G1. 8 RCRA Metals		per sample	$63.40	$0.00
H1. TPH (9070)		per sample	$41.00	$0.00
II. pH		per sample	$5.20	$0.00
J1. BOD		per sample	$20.00	$0.00
PP. Ethanol		per sample	$14.80	$0.00
11. Analyses-Drinking Water				
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05	$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75	$0.00
N. EDB (504.1)		per sample	$79.50	$0.00
O. RCRA METALS (200.8)		per sample	$100.00	$0.00
11. Analyses-Soil				
Q1. BTEX + Naphth.		per sample	$64.00	$0.00
R1. PAH's		per sample	$64.04	$0.00
S1. 8 RCRA Metals		per sample	$56.40	$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00	$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96	$0.00
W1. Grain size/hydrometer		per sample	$104.00	$0.00
X1. Total Organic Carbon		per sample	$30.60	$0.00
11. Analyses-Air				
Y1. BTEX + Naphthalene		per sample	$216.00	$0.00
11. Analyses-Free Phase Product				
Z1. Hydrocarbon Fuel Identification		per sample	$357.00	$0.00
12. Aquifer Characterization				
A1. Pumping Test*		per hour	$23.00	$0.00
B1. Slug Test*		per test	$191.00	$0.00
C1. Fractured Rock		per test	$100.00	$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00	$0.00
14. Fate/Transport Modeling				
A1. Mathematical Model		each	$100.00	$0.00
B1. Computer Model		each	$100.00	$0.00
15. Risk Evaluation				
A. Tier I Risk Evaluation		each	$300.00	$0.00
B1. Tier II Risk Evaluation		each	$100.00	$0.00
16. A1. **Subsequent Survey***	1	each	$260.00	$260.00
17. Disposal (gallons or tons)*				
AA. Wastewater	300	gallon	$0.56	$168.00
BB. Free Product		gallon	$0.50	$0.00
C1. Soil Treatment/Disposal	6	ton	$60.00	$360.00
D1. Drilling fluids		gallon	$0.42	$0.00
18. Miscellaneous (attach receipts)				
		each	$0.00	$0.00
		each	$0.00	$0.00
		each	$0.00	$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard		$0.00
21. IGWA (Use DHEC 3666 form)		standard		$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid		$0.00

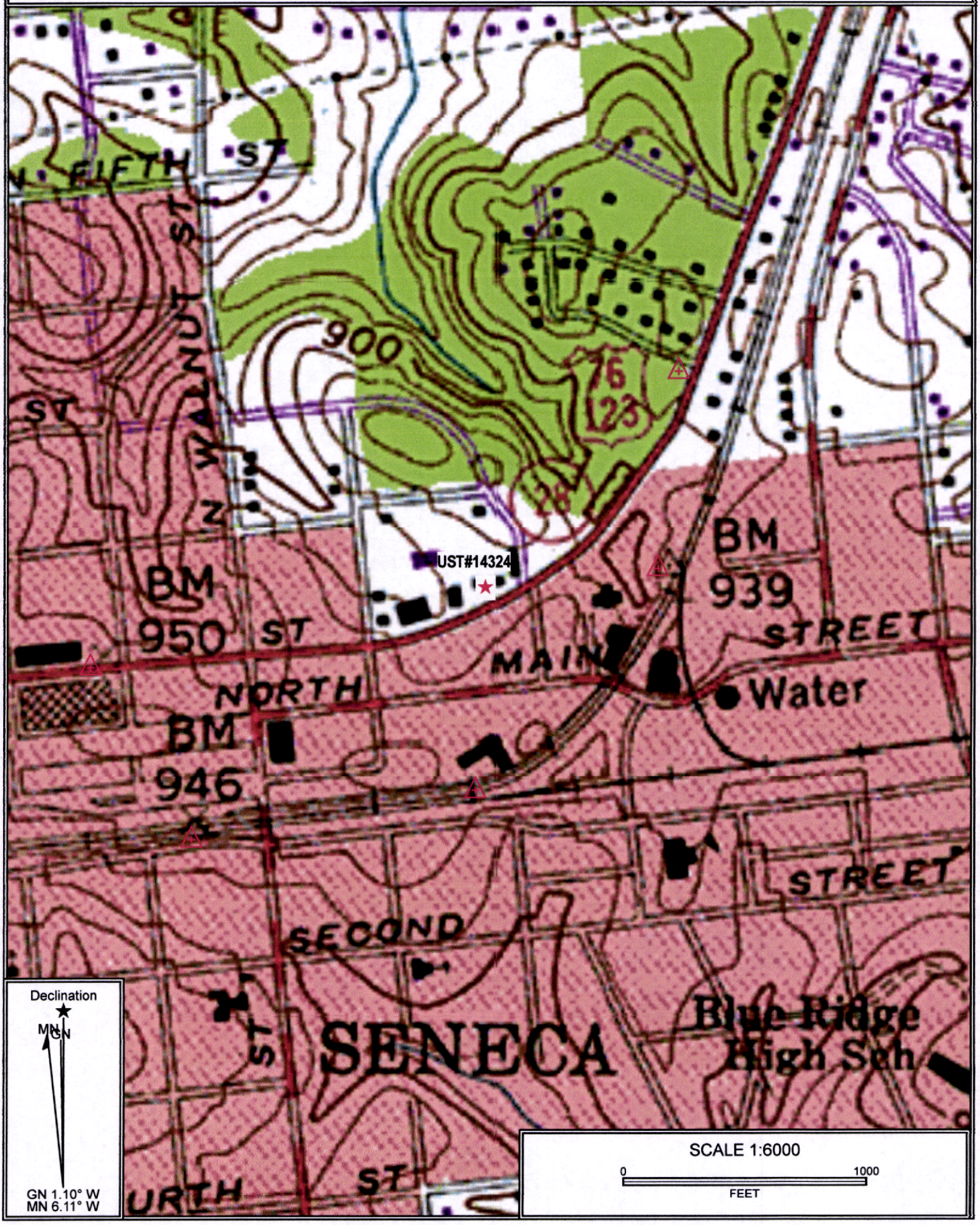
23. **Aggressive Fluid & Vapor Recovery (AFVR)**				
A1. 8-hour Event*		each	$1,375.00	$0.00
AA. 24-hour Event*		each	$3,825.00	$0.00
A3. 48-hour Event*		each	$6,265.00	$0.00
A4. 96-hour Event*		each	$12,567.50	$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50	$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50	$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00	$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00	$0.00
D. Site Reconnaissance		each	$203.25	$0.00
E1. Additional Hook-ups		each	$25.75	$0.00
F1. Effluent Disposal		gallon	$0.44	$0.00
G. AFVR Mobilization/Demobilization		each	$391.50	$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**				
A1. New GAC System Installation*		each	$1,900.00	$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00	$0.00
C1. Filter replacement/removal*		each	$350.00	$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00	$0.00
E1. GAC System housing*		each	$250.00	$0.00
F. In-line particulate filter		each	$150.00	$0.00
G1. Additional piping & fittings		foot	$1.50	$0.00
25. **Well Repair**				
A1. Additional Copies of the Report Delivered		each	$50.00	$0.00
B1. Repair 2x2 MW pad*		each	$50.00	$0.00
C1. Repair 4x4 MW pad*		each	$88.00	$0.00
D1. Repair well vault*		each	$118.00	$0.00
F1. Replace well cover bolts		each	$2.60	$0.00
G. Replace locking well cap & lock		each	$15.00	$0.00
H1. Replace/Repair stick-up*		each	$134.00	$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00	$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00	$0.00
K1. Replace missing/illegible well ID plate		each	$12.00	$0.00
Report Prep & Project Management	12%	percent	$17,327.00	$2,079.24
TOTAL				$19,406.24

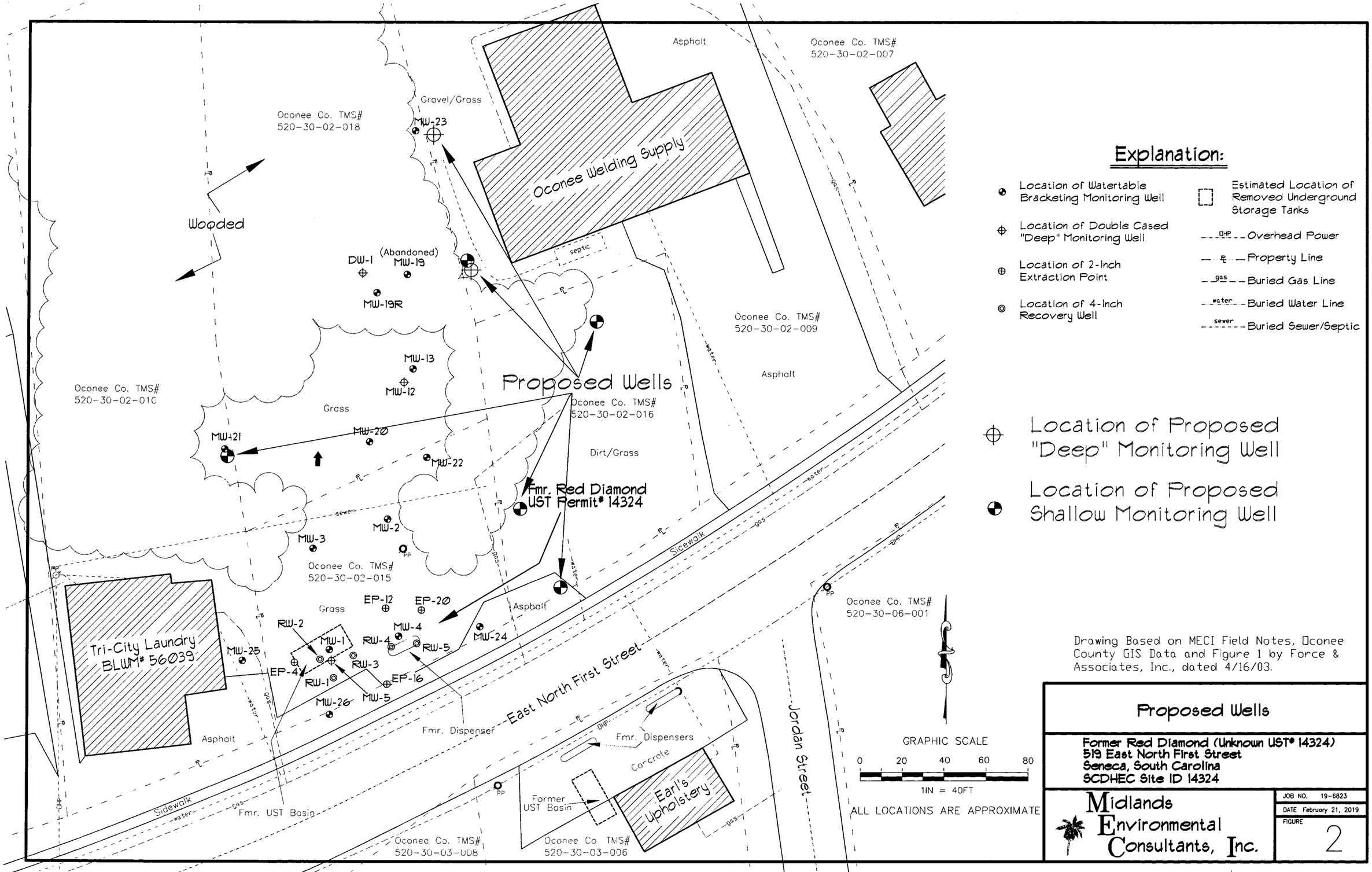
DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary

Map Name: SENECA
Print Date: 02/25/19

Scale: 1 inch = 500 ft.
Map Center: 034° 41' 12.05" N, 082° 56' 4

Horizontal Datum: NAD27





Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- P/L — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

⊕ Location of Proposed "Deep" Monitoring Well

● Location of Proposed Shallow Monitoring Well

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Proposed Wells

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 19-6823
DATE February 21, 2019
FIGURE 2

dhec
Healthy People. Healthy Communities.



BETTY LATHEM – TRUSTEE
2 STRATTON PL
GREENVILLE SC 29615

APR 1 8 2019

Re: **Monitoring Well Installation and Directive**
UST – UNKNOWN 14324, 519 E N 1st ST, Seneca, SC
UST Permit # 14324; CA # 58986; MWA #UMW-27402
Release Reported December 30, 1991
Site Specific Work Plan Received February 28, 2019
Oconee County

Dear Ms. Lathem:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Midlands Environmental Consultants Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Midlands Environmental Consultants's approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. Cost agreement #58986 has been approved for the amount shown on the enclosed cost agreement form.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Midlands Environmental Consultants Inc. can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. 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 #14324. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-2832, fax me at (803) 898-0673, or e-mail me at ageebd@dhec.sc.gov.

Sincerely,



Bryan Agee, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval Form (MWA)

cc: Midlands Environmental Consultants Inc, PO BOX 854, Lexington, SC 29071 (w/enc.)
Technical file (with enc.)

dhec
Healthy People. Healthy Communities.

Monitoring Well Approval Form

Approval is hereby granted to: Midlands Environmental Consultants Inc.
(on behalf of): Betty Lathem - Trustee
Facility: UST-UNKNOWN 14324, 519 E N 1st St, Seneca, SC
UST Permit Number: 14324
County: Oconee

This approval is for the installation of 5 shallow monitoring wells to 40 feet below land surface with 10 feet of screen on each well and 2 deep monitoring wells to 65 feet below land surface with 5 feet of screen on each well. 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 Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the 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 Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Bryan Agee, the project manager, (tel: (803) 898-2832 or e-mail: ageebd@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. 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: February 05, 2019 **Approval #: UMW-27402**

Bryan Agee, Hydrogeologist
Corrective Action and Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 58986

Facility: 14324 UST - UNKNOWN 14324

AGEEBD

PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB					
		A1 EQUIPMENT	1.0000	$1,020.000	1,020.00
		B1 PERSONNEL	3.0000	$423.000	1,269.00
09 WELL INSTALLATION					
		B1 WATER TABLE (DRILL RIG)	200.0000	$38.000	7,600.00
		CC TELESCOPING	130.0000	$50.000	6,500.00
16 SUBSEQUENT SURVEY					
		A1 SUBSEQUENT SURVEY	1.0000	$260.000	260.00
17 DISPOSAL					
		AA WASTEWATER	300.0000	$0.560	168.00
		C1 SOIL TREATMENT DISPOSAL	6.0000	$60.000	360.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$17,327.000	2,079.24
				Total Amount	19,406.24

Midlands Environmental Consultants, Inc.



March 21, 2019

Mr. Bryan Agee, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
UST – Unknown 14324
519 E N 1st Street
Seneca, South Carolina
SCDHEC Site ID # 14324; CA # 58974
MECI Project Number 19-6825
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Agee,

On behalf of Ms. Betty Lathem, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines set forth in the UST Quality Assurance Program Plan (QAPP).

FIRST AGGRESSIVE FLUID VAPOR RECOVERY EVENT

A site visit was conducted at UST – Unknown 14324 on February 18, 2019 to locate/gauge monitoring wells and to evaluate current site conditions. MECI personnel commenced the first 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at UST – Unknown 14324 on March 4, 2019 and completed the event on March 8, 2019. Prior to the AFVR event, free phase petroleum product/water was gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

Pre-AFVR Well Data			
Well ID#	*Depth to Product (ft.)*	*Depth to Water (ft.)*	*Product Thickness (ft.)*
MW-26	24.28	24.69	0.41
EP-4	Not Detected	24.37	Not Detected
RW-2	Not Detected	24.48	Not Detected

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

The event was continuously conducted for ninety-six (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

Post-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
MW-26	Not Detected	30.57	Not Detected
EP-4	Not Detected	30.62	Not Detected
RW-2	Not Detected	32.72	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 97.45% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 71.42 pounds or approximately 12.34 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.74 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 156.2 parts per million by volume (PPM) to 1,382 PPM. Vacuum readings were recorded at a range of 25.0 to 26.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on attached Figure 2.

SECOND AGGRESSIVE FLUID VAPOR RECOVERY EVENT

MECI personnel commenced the second 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at UST – Unknown 14324 on March 11, 2019 and completed the event on March 15, 2019. Prior to the AFVR event, free phase petroleum product/water was gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

Pre-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
RW-2	Not Detected	25.25	Not Detected
RW-3	Not Detected	26.25	Not Detected
RW-4	Not Detected	26.65	Not Detected

The event was continuously conducted for ninety-six (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

Post-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
RW-2	Not Detected	33.42	Not Detected
RW-3	Not Detected	31.30	Not Detected
RW-4	Not Detected	30.76	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 89.93% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 141.52 pounds or approximately 24.45 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.47 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 58.6 parts per million by volume (PPM) to 2,105 PPM. Vacuum readings were recorded at a range of 24.0 to 26.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 2.

EFFLUENT DISPOSAL

A total of 5,458 gallons of liquid was removed from the site during the first AFVR event. A total of 10,847 gallons of liquid was removed from the site during the second AFVR event. A total of 16,305 gallons of liquid was removed from the site during both AFVR events. Free Phase Petroleum product was not observed in the holding tanks at the end of the event. The fluids produced were transported to Regulatory Solutions, Inc. of Gaston, SC for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI, Ms. Betty Lathem, and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

TABLE 1A
AFVR MONITORING DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-26	03/04/19	8:45	0.50	25.0	156.2	0.0	100.00%	1,270	114.30	0.21	0.11
EP-4▼	03/04/19	9:15	0.50	25.0	177.3	0.0	100.00%	1,130	101.70	0.22	0.11
RW-2▼	03/04/19	9:45	0.50	25.0	194.1	0.0	100.00%	1,100	99.00	0.23	0.12
▼	03/04/19	10:15	0.50	25.0	137.8	0.0	100.00%	1,210	108.90	0.18	0.09
▼	03/04/19	10:45	0.50	25.0	214.5	0.0	100.00%	1,270	114.30	0.29	0.15
▼	03/04/19	11:15	0.50	25.0	306.2	0.0	100.00%	1,040	93.60	0.34	0.17
▼	03/04/19	11:45	0.50	25.0	329.6	0.0	100.00%	1,060	95.40	0.38	0.19
▼	03/04/19	12:15	0.50	25.0	358.9	0.0	100.00%	1,130	101.70	0.44	0.22
▼	03/04/19	12:45	0.50	25.0	540.6	0.0	100.00%	1,010	90.90	0.59	0.29
▼	03/04/19	13:15	0.50	25.0	592.1	0.0	100.00%	1,240	111.60	0.79	0.40
▼	03/04/19	13:45	0.50	25.0	487.4	0.0	100.00%	1,150	103.50	0.61	0.30
▼	03/04/19	14:15	0.50	25.0	601.2	2.9	99.52%	1,070	96.30	0.69	0.35
▼	03/04/19	14:45	0.50	25.0	624.9	4.6	99.26%	1,190	107.10	0.80	0.40
▼	03/04/19	15:15	0.50	25.0	740.6	6.7	99.10%	1,160	104.40	0.93	0.46
▼	03/04/19	15:45	0.50	25.0	842.1	6.9	99.18%	1,220	109.80	1.11	0.55
Stinger Depth	03/04/19	16:15	0.50	25.0	903.7	7.3	99.19%	1,250	112.50	1.22	0.61
MW-26 = 39.0 ft	03/04/19	16:45	0.50	25.0	954.2	7.7	99.19%	1,290	116.10	1.33	0.66
EP-4 = 34.0 ft	03/04/19	17:45	1.00	25.0	962.9	8.4	99.13%	1,270	114.30	1.32	1.32
RW-2 = 39.0 ft	03/04/19	18:45	1.00	25.0	917.8	8.8	99.04%	1,030	92.70	1.02	1.02
	03/04/19	19:45	1.00	25.0	898.2	9.5	98.94%	1,180	106.20	1.14	1.14
	03/04/19	20:45	1.00	25.0	873.0	10.2	98.83%	1,210	108.90	1.14	1.14
	03/04/19	21:45	1.00	25.0	908.2	10.8	98.81%	1,120	100.80	1.10	1.10
	03/04/19	22:45	1.00	25.5	892.3	9.4	98.95%	1,080	97.20	1.04	1.04
	03/04/19	23:45	1.00	26.0	915.7	10.6	98.84%	1,040	93.60	1.03	1.03
	03/05/19	0:00	0.25	26.0	918.1	10.9	98.81%	1,090	98.10	1.08	0.27
	03/05/19	1:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	2:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	3:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	4:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	5:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	6:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	7:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	8:00	2.00	26.0	901.5	23.7	97.37%	1,010	90.90	0.98	1.97
	03/05/19	10:00	2.00	26.0	862.3	25.8	97.01%	920	82.80	0.86	1.71
Stinger Depth	03/05/19	12:00	2.00	26.0	922.4	26.9	97.08%	890	80.10	0.89	1.77
MW-26 = 37.0 ft	03/05/19	14:00	2.00	26.0	859.3	30.4	96.46%	960	86.40	0.89	1.78
EP-4 = 32.0 ft	03/05/19	16:00	2.00	26.0	742.8	33.6	95.48%	880	79.20	0.71	1.41
RW-2 = 37.0 ft	03/05/19	18:00	2.00	26.0	654.9	38.9	94.06%	920	82.80	0.65	1.30
	03/05/19	20:00	2.00	26.0	631.2	40.3	93.62%	1,030	92.70	0.70	1.40
	03/05/19	22:00	2.00	26.0	638.7	42.5	93.35%	1,070	96.30	0.74	1.48
	03/06/19	0:00	2.00	25.5	620.8	40.6	93.46%	1,110	99.90	0.74	1.49
	03/06/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/06/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/06/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/06/19	8:00	2.00	26.0	613.9	38.9	93.66%	990	89.10	0.66	1.31
Stinger Depth	03/06/19	10:00	2.00	26.0	800.2	40.2	94.98%	1,120	100.80	0.97	1.94
MW-26 = 38.0 ft	03/06/19	12:00	2.00	26.0	843.8	38.6	95.43%	1,040	93.60	0.95	1.90
EP-4 = 33.0 ft	03/06/19	14:00	2.00	26.0	907.5	41.4	95.44%	1,060	95.40	1.04	2.08
RW-2 = 38.0 ft	03/06/19	16:00	2.00	26.0	836.1	43.7	94.77%	1,020	91.80	0.92	1.84
	03/06/19	18:00	2.00	26.0	755.2	47.9	93.66%	1,150	103.50	0.94	1.88
	03/06/19	20:00	2.00	26.0	864.3	54.4	93.71%	1,110	99.90	1.04	2.07
	03/06/19	22:00	2.00	25.0	928.1	56.2	93.94%	1,130	101.70	1.13	2.27
	03/07/19	0:00	2.00	25.0	983.4	60.1	93.89%	1,100	99.00	1.17	2.34
	03/07/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/07/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/07/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/07/19	8:00	2.00	26.0	898.4	84.3	90.62%	1,100	99.00	1.07	2.13
	03/07/19	10:00	2.00	26.0	986.3	89.7	90.91%	1,150	103.50	1.22	2.45
**	03/07/19	12:00	2.00	26.0	957.5	110.9	88.42%	1,090	98.10	1.13	2.25
Stinger Depth	03/07/19	14:00	2.00	26.0	859.7	0.0	100.00%	1,120	100.80	1.04	2.08
MW-26 = 39.0 ft	03/07/19	16:00	2.00	26.0	899.2	0.0	100.00%	1,070	96.30	1.04	2.08
EP-4 = 34.0 ft	03/07/19	18:00	2.00	26.0	878.5	0.0	100.00%	1,050	94.50	1.00	1.99
RW-2 = 39.0 ft	03/07/19	20:00	2.00	26.0	903.2	0.0	100.00%	1,140	102.60	1.11	2.22
	03/07/19	22:00	2.00	25.0	1,012	0.0	100.00%	1,270	114.30	1.39	2.78
	03/08/19	0:00	2.00	25.0	1,108	0.0	100.00%	1,250	112.50	1.50	2.99
	03/08/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/08/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/08/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/08/19	8:00	2.00	25.0	1,382	11.2	99.19%	1,290	116.10	1.93	3.85
	03/08/19	8:45	0.75	25.0	1,356	12.9	99.05%	1,280	115.20	1.87	1.41

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-26	2"	30-40	24.28	24.69	0.41	***	30.57	***	6.23
EP-4	2"	20-35	***	24.37	***	***	30.62	***	6.25
RW-2	4"	20-40	***	24.48	***	***	32.72	***	8.24

Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)
Contractor:	MECI	MW-26	25.00
Truck Operator:	J. Phillips	EP-4	25.00
	K. Jacobs	RW-2	25.00
	S. Sprott		
	R. Grosslight		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydrocarbons Removed (vapor):	71.42	Pounds
Hydrocarbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	12.34	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Total Liquids Removed	5,458	Gallons
Disposal Facility	Regulatory Solutions, Inc.	
Average Treatment System Reduction Rate:	97.45%	

Notes:

▼= Stinger Depth lowered 1.00 Feet
(Maximum Stinger Depth = 39.0 Feet in MW-26)
(Maximum Stinger Depth = 34.0 Feet in EP-4)
(Maximum Stinger Depth = 39.0 Feet in RW-2)
** = Carbon Changed to Ensure Greater than 80% Reduction Rate
*** = Readings Not Required Between 12am to 8am Per QAPP

TABLE 1B
AFVR MONITORING DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
RW-3	03/11/19	9:30	0.50	26.0	58.6	10.1	82.76%	850	76.50	0.05	0.03
RW-4▼	03/11/19	10:00	0.50	26.0	129.3	19.3	85.07%	880	79.20	0.12	0.06
RW-5▼	03/11/19	10:30	0.50	26.0	188.3	21.6	88.53%	870	78.30	0.18	0.09
▼	03/11/19	11:00	0.50	26.0	210.1	27.4	86.96%	860	77.40	0.20	0.10
▼	03/11/19	11:30	0.50	26.0	227.3	30.8	86.45%	850	76.50	0.21	0.10
▼	03/11/19	12:00	0.50	26.0	256.4	32.5	87.32%	840	75.60	0.23	0.12
▼	03/11/19	12:30	0.50	26.0	310.8	35.1	88.71%	840	75.60	0.28	0.14
▼	03/11/19	13:00	0.50	26.0	356.4	39.6	88.89%	850	76.50	0.33	0.16
▼	03/11/19	13:30	0.50	26.0	398.7	44.3	88.89%	870	78.30	0.37	0.19
▼	03/11/19	14:00	0.50	26.0	426.2	47.9	88.76%	880	79.20	0.41	0.20
▼	03/11/19	14:30	0.50	26.0	463.4	49.9	89.23%	870	78.30	0.44	0.22
▼	03/11/19	15:00	0.50	26.0	523.2	78.4	85.02%	880	79.20	0.50	0.25
▼	03/11/19	15:30	0.50	26.0	580.6	101.6	82.50%	890	80.10	0.56	0.28
▼	03/11/19	16:00	0.50	26.0	679.5	105.2	84.52%	900	81.00	0.66	0.33
Stinger Depth	03/11/19	16:30	0.50	26.0	950.6	122.5	87.11%	910	81.90	0.93	0.47
RW-2 = 39.0 ft	03/11/19	17:00	0.50	26.0	1,278	154.3	87.93%	900	81.00	1.24	0.62
RW-3 = 39.0 ft	03/11/19	17:30	0.50	26.0	1,296	205.4	84.15%	910	81.90	1.27	0.64
RW-4 = 39.0 ft	03/11/19	18:30	1.00	25.0	1,323	211.3	84.03%	940	84.60	1.34	1.34
	03/11/19	19:30	1.00	25.0	1,334	227.2	82.97%	960	86.40	1.38	1.38
	03/11/19	20:30	1.00	25.0	1,350	243.6	81.96%	950	85.50	1.39	1.39
	03/11/19	21:30	1.00	25.0	1,385	248.2	82.08%	970	87.30	1.45	1.45
	03/11/19	22:30	1.00	24.5	1,392	251.7	81.92%	1,000	90.00	1.50	1.50
	03/11/19	23:30	1.00	24.5	1,405	269.9	80.79%	1,020	91.80	1.55	1.55
	03/12/19	0:00	0.50	24.5	1,389	256.3	81.55%	1,020	91.80	1.53	0.77
	03/12/19	1:30	1.50	***	***	***	***	***	***	***	***
	03/12/19	2:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	3:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	4:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	5:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	6:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	7:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	8:00	2.00	24.0	1,824	345.6	81.05%	1,040	93.60	2.05	4.10
Stinger Depth	03/12/19	10:00	2.00	24.0	1,961	377.8	80.73%	1,060	95.40	2.24	4.49
RW-2 = 37.0 ft	03/12/19	12:00	2.00	26.0	1,975	389.2	80.29%	900	81.00	1.92	3.84
RW-3 = 37.0 ft	03/12/19	14:00	2.00	26.0	2,015	398.3	80.23%	950	85.50	2.07	4.13
RW-4 = 37.0 ft	03/12/19	16:00	2.00	26.0	2,029	402.5	80.16%	940	84.60	2.06	4.12
	03/12/19	18:00	2.00	26.0	2,075	405.3	80.47%	920	82.80	2.06	4.12
	03/12/19	20:00	2.00	26.0	2,105	410.9	80.48%	980	88.20	2.23	4.46
	03/12/19	22:00	2.00	25.0	1,886	333.2	82.33%	990	89.10	2.02	4.03
	03/13/19	0:00	2.00	25.0	2,063	402.8	80.48%	970	87.30	2.16	4.32
	03/13/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/13/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/13/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/13/19	8:00	2.00	24.0	1,883	342.5	81.81%	1,050	94.50	2.14	4.27
**	03/13/19	10:00	2.00	26.0	1,904	0.0	100.00%	980	88.20	2.02	4.03
Stinger Depth	03/13/19	12:00	2.00	26.0	2,023	0.0	100.00%	970	87.30	2.12	4.24
RW-2 = 38.0 ft	03/13/19	14:00	2.00	24.0	1,857	0.0	100.00%	1,070	96.30	2.15	4.29
RW-3 = 38.0 ft	03/13/19	16:00	2.00	24.0	1,822	2.7	99.85%	1,100	99.00	2.16	4.33
RW-4 = 38.0 ft	03/13/19	18:00	2.00	24.0	1,941	4.9	99.75%	1,140	102.60	2.39	4.78
	03/13/19	20:00	2.00	24.0	2,020	6.9	99.66%	1,150	103.50	2.51	5.02
	03/13/19	22:00	2.00	24.0	1,956	8.1	99.59%	1,160	104.40	2.45	4.90
	03/14/19	0:00	2.00	24.0	1,972	8.7	99.56%	1,140	102.60	2.43	4.86
	03/14/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/14/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/14/19	6:00	2.00	***	***	***	***	***	***	***	***
Stinger Depth	03/14/19	8:00	2.00	24.0	1,894	13.2	99.30%	1,160	104.40	2.37	4.75
RW-2 = 39.0 ft	03/14/19	10:00	2.00	24.0	1,796	14.8	99.18%	1,180	106.20	2.29	4.58
RW-3 = 39.0 ft	03/14/19	12:00	2.00	24.0	1,821	15.7	99.14%	1,170	105.30	2.30	4.60
RW-4 = 39.0 ft	03/14/19	14:00	2.00	24.0	1,767	19.2	98.91%	1,190	107.10	2.27	4.54
	03/14/19	16:00	2.00	24.0	1,894	25.6	98.65%	1,180	106.20	2.41	4.83
	03/14/19	18:00	2.00	24.0	1,853	27.2	98.53%	1,140	102.60	2.28	4.56
	03/14/19	20:00	2.00	24.0	1,799	30.4	98.31%	1,150	103.50	2.23	4.47
	03/14/19	22:00	2.00	24.0	1,826	31.5	98.27%	1,160	104.40	2.29	4.58
	03/15/19	0:00	2.00	24.0	1,892	33.4	98.23%	1,180	106.20	2.41	4.82
	03/15/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/15/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/15/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/15/19	8:00	2.00	24.0	1,779	46.7	97.37%	1,200	108.00	2.31	4.61
	03/15/19	9:30	1.50	24.0	1,763	50.2	97.15%	1,220	109.80	2.32	3.48

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
RW-3	4"	20-40	***	25.25	***	***	33.42	***	8.17
RW-4	4"	20-40	***	26.25	***	***	31.30	***	5.05
RW-5	4"	20-40	***	26.65	***	***	30.76	***	4.11

Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)
Contractor:	MECI	RW-3	26.00
Truck Operator:	J. Phillips	RW-4	27.00
	K. Jacobs	RW-5	27.00
	S. Sprott		
	R. Grosslight		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydrocarbons Removed (vapor):	141.52	Pounds
Hydrocarbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	24.45	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Total Liquids Removed	10,847	Gallons
Disposal Facility	Regulatory Solutions, Inc.	
Average Treatment System Reduction Rate:	89.39%	

Notes:

▼= Stinger Depth lowered 1.00 Feet
(Maximum Stinger Depth = 39.0 Feet in RW-3)
(Maximum Stinger Depth = 39.0 Feet in RW-4)
(Maximum Stinger Depth = 39.0 Feet in RW-5)
** = Carbon Changed to Ensure Greater than 80% Reduction Rate
*** = Readings Not Required Between 12am to 8am Per QAPP

TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

DIFFERENTIAL PRESSURE DATA

		MW-25	MW-24
Nearest Extraction Well:		EP-4	RW-2
Approximate Distance:		25 ft	77 ft
Time	**Elapsed Time**		
Prior to AFVR		**0.0**	**0.0**
8:45	0.00	0.0	0.0
9:15	0.50	0.0	0.0
9:45	1.00	0.0	0.0
10:15	1.50	0.0	0.0
10:45	2.00	0.0	0.0
11:15	2.50	0.0	0.0
11:45	3.00	0.0	0.0
12:15	3.50	0.0	0.0
12:45	4.00	0.0	0.0
13:15	4.50	0.0	0.0
13:45	5.00	0.0	0.0
14:15	5.50	0.0	0.0
14:45	6.00	0.0	0.0
15:15	6.50	0.0	0.0
15:45	7.00	0.0	0.0
16:15	7.50	0.0	0.0
16:45	8.00	0.0	0.0
17:45	9.00	0.0	0.0
18:45	10.00	0.0	0.0
19:45	11.00	0.0	0.0
20:45	12.00	0.0	0.0
21:45	13.00	0.0	0.0
22:45	14.00	0.0	0.0
23:45	15.00	0.0	0.0
8:00	23.25	0.0	0.0
10:00	25.25	0.0	0.0
12:00	27.25	0.0	0.0
14:00	29.25	0.0	0.0
16:00	31.25	0.0	0.0
18:00	33.25	0.0	0.0
20:00	35.25	0.0	0.0
22:00	37.25	0.0	0.0
0:00	39.25	0.0	0.0
8:00	47.25	0.0	0.0
10:00	49.25	0.0	0.0
12:00	51.25	0.0	0.0
14:00	53.25	0.0	0.0
16:00	55.25	0.0	0.0
18:00	57.25	0.0	0.0
20:00	59.25	0.0	0.0
22:00	61.25	0.0	0.0
0:00	63.25	0.0	0.0
8:00	71.25	0.0	0.0
10:00	73.25	0.0	0.0
12:00	75.25	0.0	0.0
14:00	77.25	0.0	0.0
16:00	79.25	0.0	0.0
18:00	81.25	0.0	0.0
20:00	83.25	0.0	0.0
22:00	85.25	0.0	0.0
0:00	87.25	0.0	0.0
8:00	95.25	0.0	0.0
8:45	96.00	0.0	0.0
Maximum Change:		**0.0**	**0.0**

GROUNDWATER DRAWDOWN DATA

		MW-25	MW-24
Nearest Extraction Well:		EP-4	RW-2
Approximate Distance:		25 ft	77 ft
Time	**Elapsed Time**		
Prior to AFVR		22.33	28.16
12:45	4 hours	22.38	28.21
16:45	8 hours	22.47	28.31
20:45	12 hours	22.54	28.36
0:45	16 hours	***	***
4:45	20 hours	***	***
8:00	23.25 hours	22.40	28.13
12:00	27.25 hours	22.43	23.16
16:00	31.25 hours	22.42	28.17
20:00	35.25 hours	22.37	28.16
0:00	39.25 hours	22.36	28.14
4:00	43.25 hours	***	***
8:00	47.25 hours	22.36	28.13
12:00	51.25 hours	22.36	28.11
16:00	55.25 hours	22.36	28.09
20:00	59.25 hours	22.33	28.05
0:00	63.25 hours	22.39	28.11
4:00	67.25 hours	***	***
8:00	71.25 hours	22.43	28.16
12:00	75.25 hours	22.38	28.10
16:00	79.25 hours	22.30	28.02
20:00	83.25 hours	22.28	28.01
0:00	87.25 hours	22.31	28.02
4:00	91.25 hours	***	***
8:00	95.25 hours	22.36	28.02
8:45	96 hours	22.37	28.03
Maximum Change:		-0.21	-0.20

*** = Readings Not Required Between 12AM & 8AM per QAPP

TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

DIFFERENTIAL PRESSURE DATA

		MW-24	MW-25
Nearest Extraction Well:		RW-5	RW-3
Approximate Distance:		31 ft	53 ft
Time	**Elapsed Time**		
Prior to AFVR		**0.0**	**0.0**
9:30	0.00	0.0	0.0
10:00	0.50	0.0	0.0
10:30	1.00	0.0	0.0
11:00	1.50	0.0	0.0
11:30	2.00	0.0	0.0
12:00	2.50	0.0	0.0
12:30	3.00	0.0	0.0
13:00	3.50	0.0	0.0
13:30	4.00	0.0	0.0
14:00	4.50	0.0	0.0
14:30	5.00	0.0	0.0
15:00	5.50	0.0	0.0
15:30	6.00	0.0	0.0
16:00	6.50	0.0	0.0
16:30	7.00	0.0	0.0
17:00	7.50	0.0	0.0
17:30	8.00	0.0	0.0
18:30	9.00	0.0	0.0
19:30	10.00	0.0	0.0
20:30	11.00	0.0	0.0
21:30	12.00	0.0	0.0
22:30	13.00	0.0	0.0
23:30	14.00	0.0	0.0
8:00	22.50	0.0	0.0
10:00	24.50	0.0	0.0
12:00	26.50	0.0	0.0
14:00	28.50	0.0	0.0
16:00	30.50	0.0	0.0
18:00	32.50	0.0	0.0
20:00	34.50	0.0	0.0
22:00	36.50	0.0	0.0
0:00	38.50	0.0	0.0
8:00	46.50	0.0	0.0
10:00	48.50	0.0	0.0
12:00	50.50	0.0	0.0
14:00	52.50	0.0	0.0
16:00	54.50	0.0	0.0
18:00	56.50	0.0	0.0
20:00	58.50	0.0	0.0
22:00	60.50	0.0	0.0
0:00	62.50	0.0	0.0
8:00	70.50	0.0	0.0
10:00	72.50	0.0	0.0
12:00	74.50	0.0	0.0
14:00	76.50	0.0	0.0
16:00	78.50	0.0	0.0
18:00	80.50	0.0	0.0
20:00	82.50	0.0	0.0
22:00	84.50	0.0	0.0
0:00	86.50	0.0	0.0
8:00	94.50	0.0	0.0
9:30	96.00	0.0	0.0
Maximum Change:		**0.0**	**0.0**

GROUNDWATER DRAWDOWN DATA

		MW-24	MW-25
Nearest Extraction Well:		RW-5	RW-3
Approximate Distance:		31 ft	53 ft
Time	**Elapsed Time**		
Prior to AFVR		27.72	21.92
13:30	4 hours	27.72	21.93
17:30	8 hours	27.71	21.91
21:30	12 hours	27.72	21.91
1:30	16 hours	***	***
5:30	20 hours	***	***
8:00	22.50 hours	28.24	22.15
12:00	26.50 hours	28.25	22.15
16:00	30.50 hours	28.23	22.12
20:00	34.50 hours	28.24	22.11
0:00	38.50 hours	28.24	22.15
4:00	42.50 hours	***	***
8:00	46.50 hours	28.32	22.19
12:00	50.50 hours	28.33	22.20
16:00	54.50 hours	28.35	22.22
20:00	58.50 hours	28.36	22.24
0:00	62.50 hours	28.36	22.25
4:00	66.50 hours	***	***
8:00	70.50 hours	28.38	22.29
12:00	74.50 hours	28.38	22.29
16:00	78.50 hours	28.39	22.30
20:00	82.50 hours	28.40	22.31
0:00	86.50 hours	28.40	22.31
4:00	90.50 hours	***	***
8:00	94.50 hours	28.44	22.32
9:30	96 hours	28.45	22.34
Maximum Change:		-0.52	-0.23

*** = Readings Not Required Between 12AM & 8AM per QAPP

AFVR CALIBRATION LOG

Site Name UST - Unknown 14324
MECI # 19-6825A
Date 3/4/2019-3/8/2019
Field Personnel J.P., S.S., K.J., R.G.
Serial # 110-013968

Hours	Time	Zero Cal.	Span Cal.
0	8:45	0.0	100.1
8	16:45	0.0	100.2
16	0:45	0.0	100.0
24	8:45	0.0	100.2
32	16:45	0.0	100.0
40	0:45	0.0	100.0
48	8:45	0.0	100.1
56	16:45	0.0	100.2
64	0:45	0.0	100.0
72	8:45	0.0	100.0
80	16:45	0.0	100.0
88	0:45	0.0	100.2
96	8:45	0.0	100.1

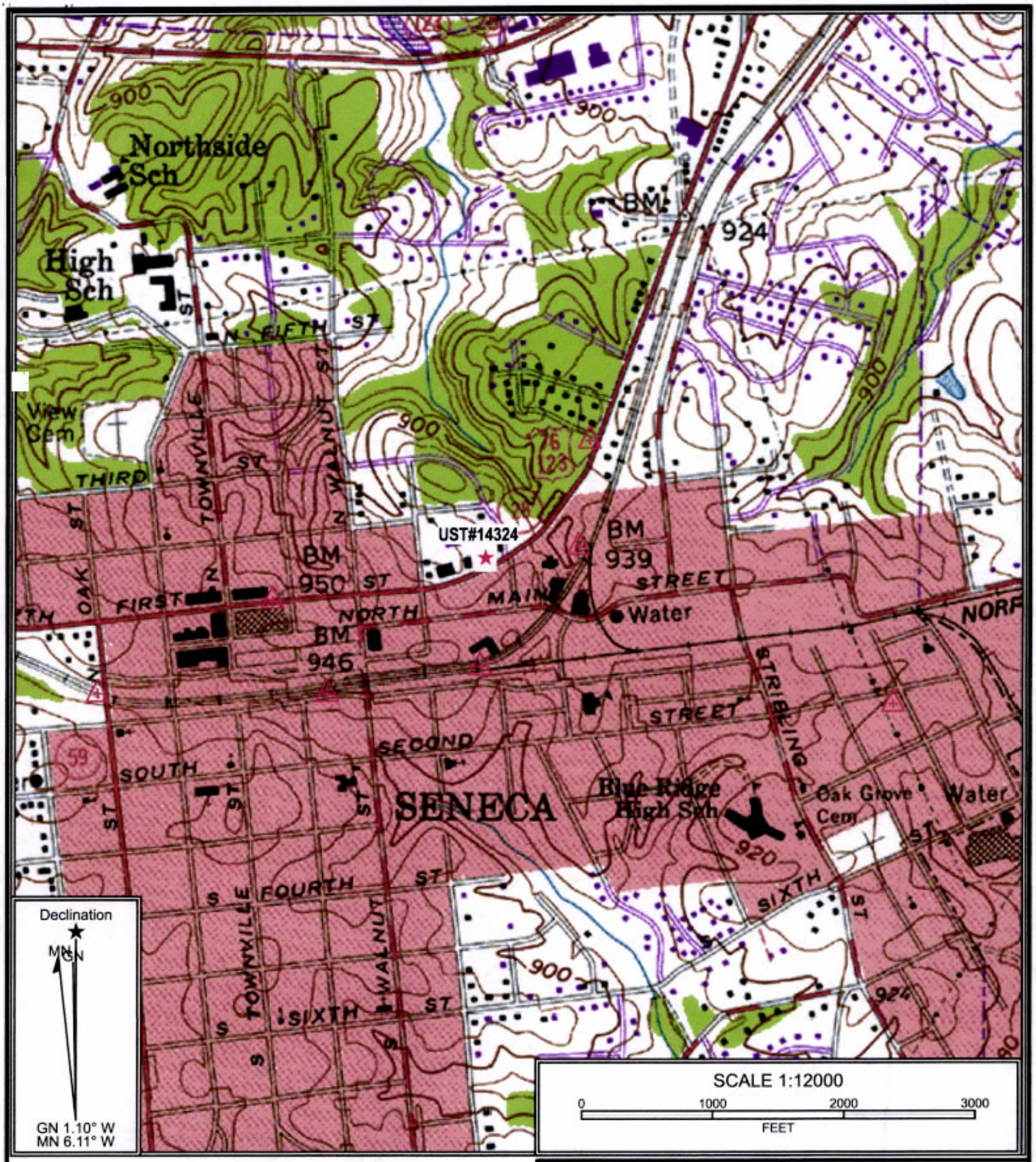
Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.

AFVR CALIBRATION LOG

Site Name UST - Unknown 14324
MECI # 19-6825B
Date 3/11/2019-3/15/2019
Field Personnel J.P., S.S., K.J., R.G.
Serial # 110-013968

Hours	Time	Zero Cal.	Span Cal.
0	9:30	0.0	100.1
8	17:30	0.0	100.1
16	1:30	0.0	100.0
24	9:30	0.0	100.0
32	17:30	0.0	100.1
40	1:30	0.0	100.0
48	9:30	0.0	100.2
56	17:30	0.0	100.1
64	1:30	0.0	100.1
72	9:30	0.0	100.2
80	17:30	0.0	100.0
88	1:30	0.0	100.1
96	9:30	0.0	100.1

Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.



Midlands Environmental Consultants, Inc.

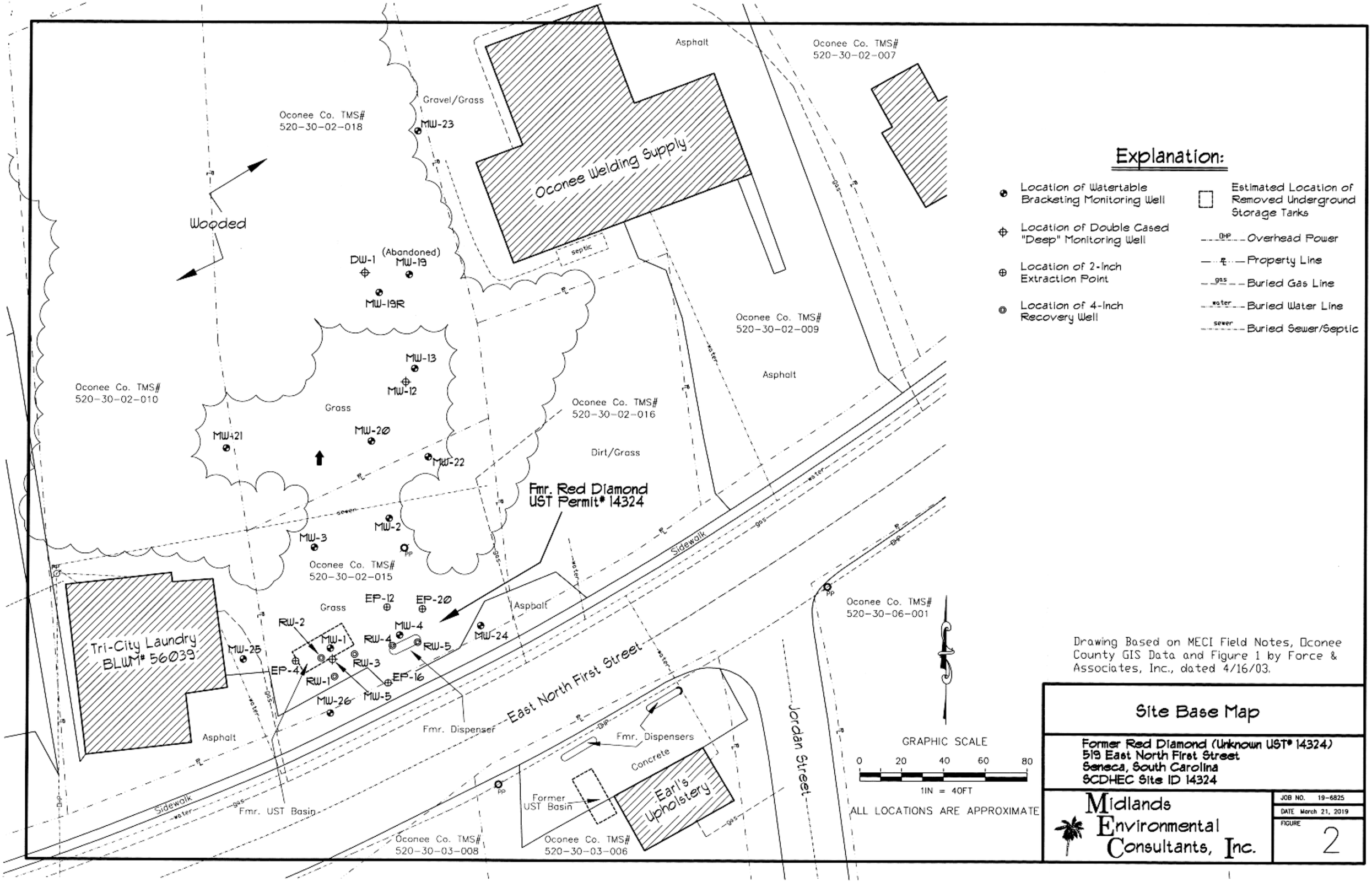
Site Location

Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

Former Red Diamond (UST Unknown #14324)
519 East North First Street, Seneca, SC
SCDHEC Site ID# 14324

Figure 1

MECI 19-6825



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-inch Extraction Point
- Location of 4-inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- ℄ — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 19-6825
DATE March 21, 2019
FIGURE 2

04:17 PM Mar/06/2019
TRUCK ID:12411
GROSS 76120 LB
TARE LB
NET LB

05:32 PM Mar/06/2019
TRUCK ID:12411
GROSS 76120 LB
TARE 30600 LB
NET 45520 LB

regulatory solutions, inc.

CUSTOMER NAME: Midland's

GENERATOR: Screen AFVR 1st Event Only, Roll

TRUCK/CONTAINER #: TF-01 / TK-08

MANIFEST#: 28651

WEIGHER (INITIALS): JMC

12411

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-926-0089	4. Waste Tracking Number 28651

GENERATOR

5. Generator's Name and Mailing Address

Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-

Generator's Phone: 803-808-2043

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

Facility's Phone: 803-926-0089

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	6000	g	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Seneca AFVR ~~First~~ ONLY Pull TK-08

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Kyle Jacobs — Signature: Kyle Jacobs — Month 3 Day 6 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter ~~1 Printed/Typed~~ Name: Justin Conley — Signature: Justin Conley — Month 3 Day 6 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Conley — Signature: Justin Conley — Month 3 Day 6 Year 19

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

03:43 PM Mar/11/2019
TRUCK ID:12423
GROSS 62220 LB
TARE LB
NET LB

04:58 PM Mar/11/2019
TRUCK ID:12423
GROSS 62220 LB
TARE 26600 LB
NET 35620 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands

GENERATOR: Seneca AFUR 2nd Event 1st Pull

TRUCK/CONTAINER #: TF-01 / TK-05

MANIFEST#: 28668

WEIGHER (INITIALS): JMC

12423

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-926-0089	4. Waste Tracking Number 28668

5. Generator's Name and Mailing Address
Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-
Generator's Phone: 803-808-2043

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-
Facility's Phone: 803-926-0089

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	4700	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Seneca AFVR ~~Final Pull~~
2nd Event, First Pull

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Benjamin Powers — Signature — Month 3 Day 11 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter ~~1 Printed/Typed Name~~: Justin Conley — Signature — Month 3 Day 11 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Justin Conley — Signature — Month 3 Day 11 Year 19

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

11:37 AM Mar/18/2019
TRUCK ID:12433
GROSS 87680 LB
TARE LB
NET LB

12:36 PM Mar/18/2019
TRUCK ID:12433
GROSS 87680 LB
TARE 32840 LB
NET 54840 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands

GENERATOR: Seneca AFW 2nd Event Final Pull

TRUCK/CONTAINER #: TF01 / TK-08

MANIFEST#: 28699

WEIGHER (INITIALS): JMC

12433

TK-08

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	28699

GENERATOR

5. Generator's Name and Mailing Address

Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-

Generator's Phone: 803-808-2043

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

Facility's Phone: 803-926-0089

U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	6576	g	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Seneca AFVR Second Event, ~~Second~~ Pull
Final

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Kyle V. Pudney — Signature: Kyle V. Pudney — Month: 3 — Day: 18 — Year: 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Willie Spencer — Signature: W. Spence — Month: 3 — Day: 18 — Year: 19

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Conley — Signature: Justin Conley — Month: 3 — Day: 18 — Year: 19

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

Midlands
Environmental
Consultants, Inc.

UST
Val Stephens
MAY 14 2019
PROGRAM

March 21, 2019

Mr. Bryan Agee, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST
DOCKETING

Subject: Aggressive Fluid Vapor Recovery Report
UST – Unknown 14324
519 E N 1st Street
Seneca, South Carolina
SCDHEC Site ID # 14324; CA # 58974
MECI Project Number 19-6825
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Agee,

On behalf of Ms. Betty Lathem, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines set forth in the UST Quality Assurance Program Plan (QAPP).

FIRST AGGRESSIVE FLUID VAPOR RECOVERY EVENT

A site visit was conducted at UST – Unknown 14324 on February 18, 2019 to locate/gauge monitoring wells and to evaluate current site conditions. MECI personnel commenced the first 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at UST – Unknown 14324 on March 4, 2019 and completed the event on March 8, 2019. Prior to the AFVR event, free phase petroleum product/water was gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

Pre-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
MW-26	24.28	24.69	0.41
EP-4	Not Detected	24.37	Not Detected
RW-2	Not Detected	24.48	Not Detected

The event was continuously conducted for ninety-six (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

Post-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
MW-26	Not Detected	30.57	Not Detected
EP-4	Not Detected	30.62	Not Detected
RW-2	Not Detected	32.72	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 97.45% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 71.42 pounds or approximately 12.34 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.74 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 156.2 parts per million by volume (PPM) to 1,382 PPM. Vacuum readings were recorded at a range of 25.0 to 26.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on attached Figure 2.

SECOND AGGRESSIVE FLUID VAPOR RECOVERY EVENT

MECI personnel commenced the second 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at UST – Unknown 14324 on March 11, 2019 and completed the event on March 15, 2019. Prior to the AFVR event, free phase petroleum product/water was gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

Pre-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
RW-2	Not Detected	25.25	Not Detected
RW-3	Not Detected	26.25	Not Detected
RW-4	Not Detected	26.65	Not Detected

The event was continuously conducted for ninety-six (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

Post-AFVR Well Data			
Well ID#	***Depth to Product (ft.)***	***Depth to Water (ft.)***	***Product Thickness (ft.)***
RW-2	Not Detected	33.42	Not Detected
RW-3	Not Detected	31.30	Not Detected
RW-4	Not Detected	30.76	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 89.93% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 141.52 pounds or approximately 24.45 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.47 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 58.6 parts per million by volume (PPM) to 2,105 PPM. Vacuum readings were recorded at a range of 24.0 to 26.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 2.

EFFLUENT DISPOSAL

A total of 5,458 gallons of liquid was removed from the site during the first AFVR event. A total of 10,847 gallons of liquid was removed from the site during the second AFVR event. A total of 16,305 gallons of liquid was removed from the site during both AFVR events. Free Phase Petroleum product was not observed in the holding tanks at the end of the event. The fluids produced were transported to Regulatory Solutions, Inc. of Gaston, SC for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI, Ms. Betty Lathem, and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

TABLE 1A
AFVR MONITORING DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-26	03/04/19	8:45	0.50	25.0	156.2	0.0	100.00%	1,270	114.30	0.21	0.11
EP-4▼	03/04/19	9:15	0.50	25.0	177.3	0.0	100.00%	1,130	101.70	0.22	0.11
RW-2▼	03/04/19	9:45	0.50	25.0	194.1	0.0	100.00%	1,100	99.00	0.23	0.12
▼	03/04/19	10:15	0.50	25.0	137.8	0.0	100.00%	1,210	108.90	0.18	0.09
▼	03/04/19	10:45	0.50	25.0	214.5	0.0	100.00%	1,270	114.30	0.29	0.15
▼	03/04/19	11:15	0.50	25.0	306.2	0.0	100.00%	1,040	93.60	0.34	0.17
▼	03/04/19	11:45	0.50	25.0	329.6	0.0	100.00%	1,060	95.40	0.38	0.19
▼	03/04/19	12:15	0.50	25.0	358.9	0.0	100.00%	1,130	101.70	0.44	0.22
▼	03/04/19	12:45	0.50	25.0	540.6	0.0	100.00%	1,010	90.90	0.59	0.29
▼	03/04/19	13:15	0.50	25.0	592.1	0.0	100.00%	1,240	111.60	0.79	0.40
▼	03/04/19	13:45	0.50	25.0	487.4	0.0	100.00%	1,150	103.50	0.61	0.30
▼	03/04/19	14:15	0.50	25.0	601.2	2.9	99.52%	1,070	96.30	0.69	0.35
▼	03/04/19	14:45	0.50	25.0	624.9	4.6	99.26%	1,190	107.10	0.80	0.40
▼	03/04/19	15:15	0.50	25.0	740.6	6.7	99.10%	1,160	104.40	0.93	0.46
▼	03/04/19	15:45	0.50	25.0	842.1	6.9	99.18%	1,220	109.80	1.11	0.55
Stinger Depth	03/04/19	16:15	0.50	25.0	903.7	7.3	99.19%	1,250	112.50	1.22	0.61
MW-26 = 39.0 ft	03/04/19	16:45	0.50	25.0	954.2	7.7	99.19%	1,290	116.10	1.33	0.66
EP-4 = 34.0 ft	03/04/19	17:45	1.00	25.0	962.9	8.4	99.13%	1,270	114.30	1.32	1.32
RW-2 = 39.0 ft	03/04/19	18:45	1.00	25.0	917.8	8.8	99.04%	1,030	92.70	1.02	1.02
	03/04/19	19:45	1.00	25.0	898.2	9.5	98.94%	1,180	106.20	1.14	1.14
	03/04/19	20:45	1.00	25.0	873.0	10.2	98.83%	1,210	108.90	1.14	1.14
	03/04/19	21:45	1.00	25.0	908.2	10.8	98.81%	1,120	100.80	1.10	1.10
	03/04/19	22:45	1.00	25.5	892.3	9.4	98.95%	1,080	97.20	1.04	1.04
	03/04/19	23:45	1.00	26.0	915.7	10.6	98.84%	1,040	93.60	1.03	1.03
	03/05/19	0:00	0.25	26.0	918.1	10.9	98.81%	1,090	98.10	1.08	0.27
	03/05/19	1:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	2:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	3:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	4:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	5:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	6:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	7:45	1.00	***	***	***	***	***	***	***	***
	03/05/19	8:00	2.00	26.0	901.5	23.7	97.37%	1,010	90.90	0.98	1.97
	03/05/19	10:00	2.00	26.0	862.3	25.8	97.01%	920	82.80	0.86	1.71
Stinger Depth	03/05/19	12:00	2.00	26.0	922.4	26.9	97.08%	890	80.10	0.89	1.77
MW-26 = 37.0 ft	03/05/19	14:00	2.00	26.0	859.3	30.4	96.46%	960	86.40	0.89	1.78
EP-4 = 32.0 ft	03/05/19	16:00	2.00	26.0	742.8	33.6	95.48%	880	79.20	0.71	1.41
RW-2 = 37.0 ft	03/05/19	18:00	2.00	26.0	654.9	38.9	94.06%	920	82.80	0.65	1.30
	03/05/19	20:00	2.00	26.0	631.2	40.3	93.62%	1,030	92.70	0.70	1.40
	03/05/19	22:00	2.00	26.0	638.7	42.5	93.35%	1,070	96.30	0.74	1.48
	03/06/19	0:00	2.00	25.5	620.8	40.6	93.46%	1,110	99.90	0.74	1.49
	03/06/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/06/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/06/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/06/19	8:00	2.00	26.0	613.9	38.9	93.66%	990	89.10	0.66	1.31
Stinger Depth	03/06/19	10:00	2.00	26.0	800.2	40.2	94.98%	1,120	100.80	0.97	1.94
MW-26 = 38.0 ft	03/06/19	12:00	2.00	26.0	843.8	38.6	95.43%	1,040	93.60	0.95	1.90
EP-4 = 33.0 ft	03/06/19	14:00	2.00	26.0	907.5	41.4	95.44%	1,060	95.40	1.04	2.08
RW-2 = 38.0 ft	03/06/19	16:00	2.00	26.0	836.1	43.7	94.77%	1,020	91.80	0.92	1.84
	03/06/19	18:00	2.00	26.0	755.2	47.9	93.66%	1,150	103.50	0.94	1.88
	03/06/19	20:00	2.00	26.0	864.3	54.4	93.71%	1,110	99.90	1.04	2.07
	03/06/19	22:00	2.00	25.0	928.1	56.2	93.94%	1,130	101.70	1.13	2.27
	03/07/19	0:00	2.00	25.0	983.4	60.1	93.89%	1,100	99.00	1.17	2.34
	03/07/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/07/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/07/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/07/19	8:00	2.00	26.0	898.4	84.3	90.62%	1,100	99.00	1.07	2.13
	03/07/19	10:00	2.00	26.0	986.3	89.7	90.91%	1,150	103.50	1.22	2.45
**	03/07/19	12:00	2.00	26.0	957.5	110.9	88.42%	1,090	98.10	1.13	2.25
Stinger Depth	03/07/19	14:00	2.00	26.0	859.7	0.0	100.00%	1,120	100.80	1.04	2.08
MW-26 = 39.0 ft	03/07/19	16:00	2.00	26.0	899.2	0.0	100.00%	1,070	96.30	1.04	2.08
EP-4 = 34.0 ft	03/07/19	18:00	2.00	26.0	878.5	0.0	100.00%	1,050	94.50	1.00	1.99
RW-2 = 39.0 ft	03/07/19	20:00	2.00	26.0	903.2	0.0	100.00%	1,140	102.60	1.11	2.22
	03/07/19	22:00	2.00	25.0	1,012	0.0	100.00%	1,270	114.30	1.39	2.78
	03/08/19	0:00	2.00	25.0	1,108	0.0	100.00%	1,250	112.50	1.50	2.99
	03/08/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/08/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/08/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/08/19	8:00	2.00	25.0	1,382	11.2	99.19%	1,290	116.10	1.93	3.85
	03/08/19	8:45	0.75	25.0	1,356	12.9	99.05%	1,280	115.20	1.87	1.41

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-26	2"	30-40	24.28	24.69	0.41	***	30.57	***	6.23
EP-4	2"	20-35	***	24.37	***	***	30.62	***	6.25
RW-2	4"	20-40	***	24.48	***	***	32.72	***	8.24

Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)
Contractor:	MECI	MW-26	25.00
Truck Operator:	J. Phillips	EP-4	25.00
	K. Jacobs	RW-2	25.00
	S. Sprott		
	R. Grosslight		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydrocarbons Removed (vapor):	71.42	Pounds
Hydrocarbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	12.34	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Total Liquids Removed	5,458	Gallons
Disposal Facility	Regulatory Solutions, Inc.	
Average Treatment System Reduction Rate:	97.45%	

Notes:

▼ = Stinger Depth lowered 1.00 Feet
(Maximum Stinger Depth = 39.0 Feet in MW-26)
(Maximum Stinger Depth = 34.0 Feet in EP-4)
(Maximum Stinger Depth = 39.0 Feet in RW-2)
** = Carbon Changed to Ensure Greater than 80% Reduction Rate
*** = Readings Not Required Between 12am to 8am Per QAPP

TABLE 1B
AFVR MONITORING DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
RW-3	03/11/19	9:30	0.50	26.0	58.6	10.1	82.76%	850	76.50	0.05	0.03
RW-4▼	03/11/19	10:00	0.50	26.0	129.3	19.3	85.07%	880	79.20	0.12	0.06
RW-5▼	03/11/19	10:30	0.50	26.0	188.3	21.6	88.53%	870	78.30	0.18	0.09
▼	03/11/19	11:00	0.50	26.0	210.1	27.4	86.96%	860	77.40	0.20	0.10
▼	03/11/19	11:30	0.50	26.0	227.3	30.8	86.45%	850	76.50	0.21	0.10
▼	03/11/19	12:00	0.50	26.0	256.4	32.5	87.32%	840	75.60	0.23	0.12
▼	03/11/19	12:30	0.50	26.0	310.8	35.1	88.71%	840	75.60	0.28	0.14
▼	03/11/19	13:00	0.50	26.0	356.4	39.6	88.89%	850	76.50	0.33	0.16
▼	03/11/19	13:30	0.50	26.0	398.7	44.3	88.89%	870	78.30	0.37	0.19
▼	03/11/19	14:00	0.50	26.0	426.2	47.9	88.76%	880	79.20	0.41	0.20
▼	03/11/19	14:30	0.50	26.0	463.4	49.9	89.23%	870	78.30	0.44	0.22
▼	03/11/19	15:00	0.50	26.0	523.2	78.4	85.02%	880	79.20	0.50	0.25
▼	03/11/19	15:30	0.50	26.0	580.6	101.6	82.50%	890	80.10	0.56	0.28
▼	03/11/19	16:00	0.50	26.0	679.5	105.2	84.52%	900	81.00	0.66	0.33
Stinger Depth	03/11/19	16:30	0.50	26.0	950.6	122.5	87.11%	910	81.90	0.93	0.47
RW-2 = 39.0 ft	03/11/19	17:00	0.50	26.0	1,278	154.3	87.93%	900	81.00	1.24	0.62
RW-3 = 39.0 ft	03/11/19	17:30	0.50	26.0	1,296	205.4	84.15%	910	81.90	1.27	0.64
RW-4 = 39.0 ft	03/11/19	18:30	1.00	25.0	1,323	211.3	84.03%	940	84.60	1.34	1.34
	03/11/19	19:30	1.00	25.0	1,334	227.2	82.97%	960	86.40	1.38	1.38
	03/11/19	20:30	1.00	25.0	1,350	243.6	81.96%	950	85.50	1.39	1.39
	03/11/19	21:30	1.00	25.0	1,385	248.2	82.08%	970	87.30	1.45	1.45
	03/11/19	22:30	1.00	24.5	1,392	251.7	81.92%	1,000	90.00	1.50	1.50
	03/11/19	23:30	1.00	24.5	1,405	269.9	80.79%	1,020	91.80	1.55	1.55
	03/12/19	0:00	0.50	24.5	1,389	256.3	81.55%	1,020	91.80	1.53	0.77
	03/12/19	1:30	1.50	***	***	***	***	***	***	***	***
	03/12/19	2:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	3:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	4:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	5:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	6:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	7:30	1.00	***	***	***	***	***	***	***	***
	03/12/19	8:00	2.00	24.0	1,824	345.6	81.05%	1,040	93.60	2.05	4.10
Stinger Depth	03/12/19	10:00	2.00	24.0	1,961	377.8	80.73%	1,060	95.40	2.24	4.49
RW-2 = 37.0 ft	03/12/19	12:00	2.00	26.0	1,975	389.2	80.29%	900	81.00	1.92	3.84
RW-3 = 37.0 ft	03/12/19	14:00	2.00	26.0	2,015	398.3	80.23%	950	85.50	2.07	4.13
RW-4 = 37.0 ft	03/12/19	16:00	2.00	26.0	2,029	402.5	80.16%	940	84.60	2.06	4.12
	03/12/19	18:00	2.00	26.0	2,075	405.3	80.47%	920	82.80	2.06	4.12
	03/12/19	20:00	2.00	26.0	2,105	410.9	80.48%	980	88.20	2.23	4.46
	03/12/19	22:00	2.00	25.0	1,886	333.2	82.33%	990	89.10	2.02	4.03
	03/13/19	0:00	2.00	25.0	2,063	402.8	80.48%	970	87.30	2.16	4.32
	03/13/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/13/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/13/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/13/19	8:00	2.00	24.0	1,883	342.5	81.81%	1,050	94.50	2.14	4.27
**	03/13/19	10:00	2.00	26.0	1,904	0.0	100.00%	980	88.20	2.02	4.03
Stinger Depth	03/13/19	12:00	2.00	26.0	2,023	0.0	100.00%	970	87.30	2.12	4.24
RW-2 = 38.0 ft	03/13/19	14:00	2.00	24.0	1,857	0.0	100.00%	1,070	96.30	2.15	4.29
RW-3 = 38.0 ft	03/13/19	16:00	2.00	24.0	1,822	2.7	99.85%	1,100	99.00	2.16	4.33
RW-4 = 38.0 ft	03/13/19	18:00	2.00	24.0	1,941	4.9	99.75%	1,140	102.60	2.39	4.78
	03/13/19	20:00	2.00	24.0	2,020	6.9	99.66%	1,150	103.50	2.51	5.02
	03/13/19	22:00	2.00	24.0	1,956	8.1	99.59%	1,160	104.40	2.45	4.90
	03/14/19	0:00	2.00	24.0	1,972	8.7	99.56%	1,140	102.60	2.43	4.86
	03/14/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/14/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/14/19	6:00	2.00	***	***	***	***	***	***	***	***
Stinger Depth	03/14/19	8:00	2.00	24.0	1,894	13.2	99.30%	1,160	104.40	2.37	4.75
RW-2 = 39.0 ft	03/14/19	10:00	2.00	24.0	1,796	14.8	99.18%	1,180	106.20	2.29	4.58
RW-3 = 39.0 ft	03/14/19	12:00	2.00	24.0	1,821	15.7	99.14%	1,170	105.30	2.30	4.60
RW-4 = 39.0 ft	03/14/19	14:00	2.00	24.0	1,767	19.2	98.91%	1,190	107.10	2.27	4.54
	03/14/19	16:00	2.00	24.0	1,894	25.6	98.65%	1,180	106.20	2.41	4.83
	03/14/19	18:00	2.00	24.0	1,853	27.2	98.53%	1,140	102.60	2.28	4.56
	03/14/19	20:00	2.00	24.0	1,799	30.4	98.31%	1,150	103.50	2.23	4.47
	03/14/19	22:00	2.00	24.0	1,826	31.5	98.27%	1,160	104.40	2.29	4.58
	03/15/19	0:00	2.00	24.0	1,892	33.4	98.23%	1,180	106.20	2.41	4.82
	03/15/19	2:00	2.00	***	***	***	***	***	***	***	***
	03/15/19	4:00	2.00	***	***	***	***	***	***	***	***
	03/15/19	6:00	2.00	***	***	***	***	***	***	***	***
	03/15/19	8:00	2.00	24.0	1,779	46.7	97.37%	1,200	108.00	2.31	4.61
	03/15/19	9:30	1.50	24.0	1,763	50.2	97.15%	1,220	109.80	2.32	3.48

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
RW-3	4"	20-40	***	25.25	***	***	33.42	***	8.17
RW-4	4"	20-40	***	26.25	***	***	31.30	***	5.05
RW-5	4"	20-40	***	26.65	***	***	30.76	***	4.11

Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)
Contractor:	MECI	RW-3	26.00
Truck Operator:	J. Phillips	RW-4	27.00
	K. Jacobs	RW-5	27.00
	S. Sprott		
	R. Grosslight		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydrocarbons Removed (vapor):	141.52	Pounds
Hydrocarbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	24.45	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Total Liquids Removed	10,847	Gallons
Disposal Facility	Regulatory Solutions, Inc.	
Average Treatment System Reduction Rate:	89.39%	

Notes:

▼= Stinger Depth lowered 1.00 Feet
(Maximum Stinger Depth = 39.0 Feet in RW-3)
(Maximum Stinger Depth = 39.0 Feet in RW-4)
(Maximum Stinger Depth = 39.0 Feet in RW-5)
** = Carbon Changed to Ensure Greater than 80% Reduction Rate
*** = Readings Not Required Between 12am to 8am Per QAPP

TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

DIFFERENTIAL PRESSURE DATA

		MW-25	**MW-24**
Nearest Extraction Well:		EP-4	RW-2
Approximate Distance:		25 ft	77 ft
Time	**Elapsed Time**		
Prior to AFVR		**0.0**	**0.0**
8:45	0.00	0.0	0.0
9:15	0.50	0.0	0.0
9:45	1.00	0.0	0.0
10:15	1.50	0.0	0.0
10:45	2.00	0.0	0.0
11:15	2.50	0.0	0.0
11:45	3.00	0.0	0.0
12:15	3.50	0.0	0.0
12:45	4.00	0.0	0.0
13:15	4.50	0.0	0.0
13:45	5.00	0.0	0.0
14:15	5.50	0.0	0.0
14:45	6.00	0.0	0.0
15:15	6.50	0.0	0.0
15:45	7.00	0.0	0.0
16:15	7.50	0.0	0.0
16:45	8.00	0.0	0.0
17:45	9.00	0.0	0.0
18:45	10.00	0.0	0.0
19:45	11.00	0.0	0.0
20:45	12.00	0.0	0.0
21:45	13.00	0.0	0.0
22:45	14.00	0.0	0.0
23:45	15.00	0.0	0.0
8:00	23.25	0.0	0.0
10:00	25.25	0.0	0.0
12:00	27.25	0.0	0.0
14:00	29.25	0.0	0.0
16:00	31.25	0.0	0.0
18:00	33.25	0.0	0.0
20:00	35.25	0.0	0.0
22:00	37.25	0.0	0.0
0:00	39.25	0.0	0.0
8:00	47.25	0.0	0.0
10:00	49.25	0.0	0.0
12:00	51.25	0.0	0.0
14:00	53.25	0.0	0.0
16:00	55.25	0.0	0.0
18:00	57.25	0.0	0.0
20:00	59.25	0.0	0.0
22:00	61.25	0.0	0.0
0:00	63.25	0.0	0.0
8:00	71.25	0.0	0.0
10:00	73.25	0.0	0.0
12:00	75.25	0.0	0.0
14:00	77.25	0.0	0.0
16:00	79.25	0.0	0.0
18:00	81.25	0.0	0.0
20:00	83.25	0.0	0.0
22:00	85.25	0.0	0.0
0:00	87.25	0.0	0.0
8:00	95.25	0.0	0.0
8:45	96.00	0.0	0.0
Maximum Change:		**0.0**	**0.0**

GROUNDWATER DRAWDOWN DATA

		MW-25	**MW-24**
Nearest Extraction Well:		EP-4	RW-2
Approximate Distance:		25 ft	77 ft
Time	**Elapsed Time**		
Prior to AFVR		22.33	28.16
12:45	4 hours	22.38	28.21
16:45	8 hours	22.47	28.31
20:45	12 hours	22.54	28.36
0:45	16 hours	***	***
4:45	20 hours	***	***
8:00	23.25 hours	22.40	28.13
12:00	27.25 hours	22.43	23.16
16:00	31.25 hours	22.42	28.17
20:00	35.25 hours	22.37	28.16
0:00	39.25 hours	22.36	28.14
4:00	43.25 hours	***	***
8:00	47.25 hours	22.36	28.13
12:00	51.25 hours	22.36	28.11
16:00	55.25 hours	22.36	28.09
20:00	59.25 hours	22.33	28.05
0:00	63.25 hours	22.39	28.11
4:00	67.25 hours	***	***
8:00	71.25 hours	22.43	28.16
12:00	75.25 hours	22.38	28.10
16:00	79.25 hours	22.30	28.02
20:00	83.25 hours	22.28	28.01
0:00	87.25 hours	22.31	28.02
4:00	91.25 hours	***	***
8:00	95.25 hours	22.36	28.02
8:45	96 hours	22.37	28.03
Maximum Change:		-0.21	-0.20

*** = Readings Not Required Between 12AM & 8AM per QAPP

TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6825
SCDHEC SITE ID NUMBER 14324

DIFFERENTIAL PRESSURE DATA

		MW-24	MW-25
Nearest Extraction Well:		RW-5	RW-3
Approximate Distance:		31 ft	53 ft
Time	**Elapsed Time**		
Prior to AFVR		**0.0**	**0.0**
9:30	0.00	0.0	0.0
10:00	0.50	0.0	0.0
10:30	1.00	0.0	0.0
11:00	1.50	0.0	0.0
11:30	2.00	0.0	0.0
12:00	2.50	0.0	0.0
12:30	3.00	0.0	0.0
13:00	3.50	0.0	0.0
13:30	4.00	0.0	0.0
14:00	4.50	0.0	0.0
14:30	5.00	0.0	0.0
15:00	5.50	0.0	0.0
15:30	6.00	0.0	0.0
16:00	6.50	0.0	0.0
16:30	7.00	0.0	0.0
17:00	7.50	0.0	0.0
17:30	8.00	0.0	0.0
18:30	9.00	0.0	0.0
19:30	10.00	0.0	0.0
20:30	11.00	0.0	0.0
21:30	12.00	0.0	0.0
22:30	13.00	0.0	0.0
23:30	14.00	0.0	0.0
8:00	22.50	0.0	0.0
10:00	24.50	0.0	0.0
12:00	26.50	0.0	0.0
14:00	28.50	0.0	0.0
16:00	30.50	0.0	0.0
18:00	32.50	0.0	0.0
20:00	34.50	0.0	0.0
22:00	36.50	0.0	0.0
0:00	38.50	0.0	0.0
8:00	46.50	0.0	0.0
10:00	48.50	0.0	0.0
12:00	50.50	0.0	0.0
14:00	52.50	0.0	0.0
16:00	54.50	0.0	0.0
18:00	56.50	0.0	0.0
20:00	58.50	0.0	0.0
22:00	60.50	0.0	0.0
0:00	62.50	0.0	0.0
8:00	70.50	0.0	0.0
10:00	72.50	0.0	0.0
12:00	74.50	0.0	0.0
14:00	76.50	0.0	0.0
16:00	78.50	0.0	0.0
18:00	80.50	0.0	0.0
20:00	82.50	0.0	0.0
22:00	84.50	0.0	0.0
0:00	86.50	0.0	0.0
8:00	94.50	0.0	0.0
9:30	96.00	0.0	0.0
Maximum Change:		**0.0**	**0.0**

GROUNDWATER DRAWDOWN DATA

		MW-24	MW-25
Nearest Extraction Well:		RW-5	RW-3
Approximate Distance:		31 ft	53 ft
Time	**Elapsed Time**		
Prior to AFVR		27.72	21.92
13:30	4 hours	27.72	21.93
17:30	8 hours	27.71	21.91
21:30	12 hours	27.72	21.91
1:30	16 hours	***	***
5:30	20 hours	***	***
8:00	22.50 hours	28.24	22.15
12:00	26.50 hours	28.25	22.15
16:00	30.50 hours	28.23	22.12
20:00	34.50 hours	28.24	22.11
0:00	38.50 hours	28.24	22.15
4:00	42.50 hours	***	***
8:00	46.50 hours	28.32	22.19
12:00	50.50 hours	28.33	22.20
16:00	54.50 hours	28.35	22.22
20:00	58.50 hours	28.36	22.24
0:00	62.50 hours	28.36	22.25
4:00	66.50 hours	***	***
8:00	70.50 hours	28.38	22.29
12:00	74.50 hours	28.38	22.29
16:00	78.50 hours	28.39	22.30
20:00	82.50 hours	28.40	22.31
0:00	86.50 hours	28.40	22.31
4:00	90.50 hours	***	***
8:00	94.50 hours	28.44	22.32
9:30	96 hours	28.45	22.34
Maximum Change:		-0.52	-0.23

*** = Readings Not Required Between 12AM & 8AM per QAPP

AFVR CALIBRATION LOG

Site Name	**UST - Unknown 14324**
MECI #	**19-6825A**
Date	**3/4/2019-3/8/2019**
Field Personnel	**J.P., S.S., K.J., R.G.**
Serial #	**110-013968**

Hours	Time	Zero Cal.	Span Cal.
0	8:45	0.0	100.1
8	16:45	0.0	100.2
16	0:45	0.0	100.0
24	8:45	0.0	100.2
32	16:45	0.0	100.0
40	0:45	0.0	100.0
48	8:45	0.0	100.1
56	16:45	0.0	100.2
64	0:45	0.0	100.0
72	8:45	0.0	100.0
80	16:45	0.0	100.0
88	0:45	0.0	100.2
96	8:45	0.0	100.1

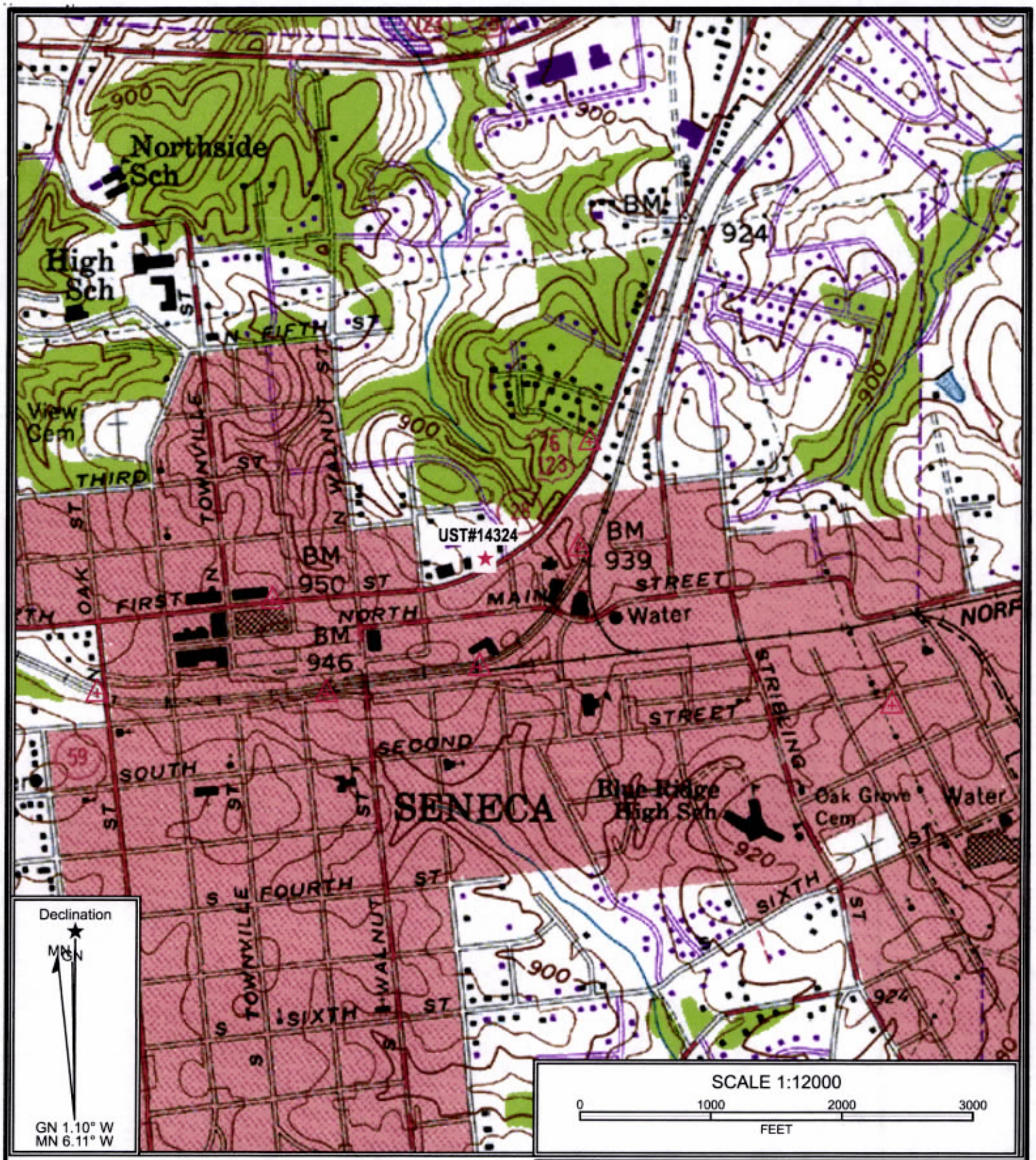
Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.

AFVR CALIBRATION LOG

Site Name	UST - Unknown 14324
MECI #	19-6825B
Date	3/11/2019-3/15/2019
Field Personnel	J.P., S.S., K.J., R.G.
Serial #	110-013968

Hours	Time	Zero Cal.	Span Cal.
0	9:30	0.0	100.1
8	17:30	0.0	100.1
16	1:30	0.0	100.0
24	9:30	0.0	100.0
32	17:30	0.0	100.1
40	1:30	0.0	100.0
48	9:30	0.0	100.2
56	17:30	0.0	100.1
64	1:30	0.0	100.1
72	9:30	0.0	100.2
80	17:30	0.0	100.0
88	1:30	0.0	100.1
96	9:30	0.0	100.1

Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.



Midlands Environmental Consultants, Inc.

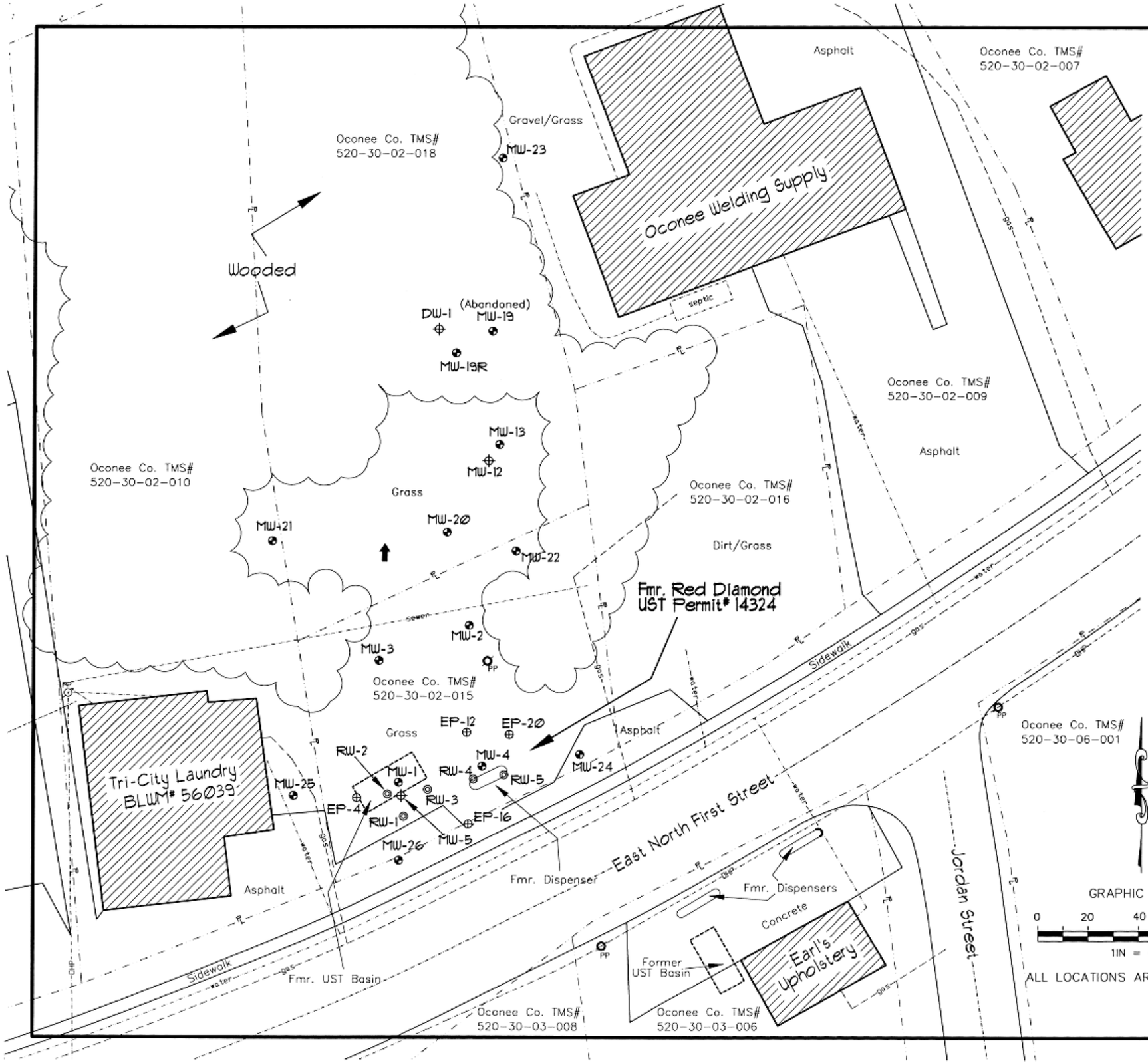
Site Location

Former Red Diamond (UST Unknown #14324)
519 East North First Street, Seneca, SC
SCDHEC Site ID# 14324

Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

Figure 1

MECI 19-6825



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- ℄ — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 19-6825
DATE March 21, 2019
FIGURE 2

04:17 PM Mar/06/2019
TRUCK ID:12411
GROSS 76120 LB
TARE LB
NET LB

05:32 PM Mar/06/2019
TRUCK ID:12411
GROSS 76120 LB
TARE 30600 LB
NET 45520 LB

regulatory solutions, inc.

CUSTOMER NAME: Midland's

GENERATOR: Screen AFVR 1st Event Only Roll

TRUCK/CONTAINER #: TF-01 / TK-08

MANIFEST#: 28651

WEIGHER (INITIALS): JMC

12411

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-926-0089	4. Waste Tracking Number 28651

GENERATOR

5. Generator's Name and Mailing Address

Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-

Generator's Phone: 803-808-2043

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

Facility's Phone: 803-926-0089

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	6000	g	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Seneca AFVR ~~First~~ ONLY Pull TK-08

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Kyle Jacobs — Signature: Kyle Jacobs — Month 3 Day 6 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Justin Corley — Signature: Justin Corley — Month 3 Day 6 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Corley — Signature: Justin Corley — Month 3 Day 6 Year 19

03:43 PM Mar/11/2019
TRUCK ID:12423
GROSS 62220 LB
TARE LB
NET LB

04:58 PM Mar/11/2019
TRUCK ID:12423
GROSS 62220 LB
TARE 26600 LB
NET 35620 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands

GENERATOR: Seneca AFUR 2nd Event 1st Pull

TRUCK/CONTAINER #: TF-01 / TK-05

MANIFEST#: 28668

WEIGHER (INITIALS): JMC

12423

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	28668

GENERATOR

5. Generator's Name and Mailing Address
Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-
Generator's Phone: 803-808-2043

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Regulatory Solutions, Inc — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-
Facility's Phone: 803-926-0089

U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	4700	g	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Seneca AFVR ~~Final Pull~~
2nd Event, First Pull

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Benjamin Powess — Signature — Month: 3 Day: 11 Year: 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter ~~1~~ Printed/Typed Name: Justin Conley — Signature — Month: 3 Day: 11 Year: 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Justin Conley — Signature — Month: 3 Day: 11 Year: 19

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

11:37 AM Mar/18/2019
TRUCK ID:12433
GROSS 87680 LB
TARE LB
NET LB

12:36 PM Mar/18/2019
TRUCK ID:12433
GROSS 87680 LB
TARE 32840 LB
NET 54840 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands

GENERATOR: Seneca AFVK 2nd Event Final Pull

TRUCK/CONTAINER #: TF01 / TK-08

MANIFEST#: 28699

WEIGHER (INITIALS): JMC

12433

TK-08

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	28699

5. Generator's Name and Mailing Address

Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-

Generator's Phone: 803-808-2043

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

Regulatory Solutions, Inc

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

Facility's Phone: 803-926-0089

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	6576	g	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Seneca AFVR Second Event, ~~Second~~ Pull
Final

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Kyle V. Pudney — Signature: Kyle V. Pudney — Month: 3 Day: 18 Year: 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Willie Spencer — Signature: W. Spence — Month: 3 Day: 18 Year: 19

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Justin Conley — Signature: Justin Conley — Month: 3 Day: 18 Year: 19

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

dhec
Healthy People. Healthy Communities.

NOV 0 6 2019



BETTY LATHEM - TRUSTEE
2 STRATTON PL
GREENVILLE SC 29615-4217

Re: Site-Specific Work Plan (SSWP) Request for Groundwater Sampling
UST – Unknown 14324, 519 E N 1st St, Seneca, SC
UST Permit #14324
Release reported December 30, 1991
AFVR Report received May 14, 2019
Oconee County

Dear Ms. Lathem:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

Groundwater samples should be collected from all monitoring wells associated with the above referenced release and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, the 8 oxygenates, and EDB.

Your contractor must complete the SSWP and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please use the UST Permit number referenced above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0610, by fax at (803) 898-0673, or by e-mail at westbrcj@dhec.sc.gov.

Sincerely,

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

cc: Midlands Environmental Consultants, P.O. Box 854, Lexington, SC 29071
Technical file

Midlands
Environmental
Consultants, Inc.

February 24, 2020

UST
FEB 25 2020
PROGRAM

UST
DOCKETING

Mr. Connor Westbrook, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
Unknown UST 14324 (Former Red Diamond)
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 20-7241
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Westbrook,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On February 13, 2020, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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

To: Mr. Connor Westbrook (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Unknown UST 14324 (Former Red Diamond) UST Permit #: 14324
Facility Address: 519 East North 1st Street, Seneca, SC
Responsible Party: Ms. Betty Lathem Phone: 864-288-6480
RP Address: 2 Stratton Place, Greenville, SC 29615
Property Owner (if different): Anthony Smith
Property Owner Address: 146 Emerald Road, Seneca, SC 29678
Current Use of Property: Vacant Lot

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☑ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☑ BTEXNMDCA (8260B) ☐ Lead ☐ BOD ☐ Methane
☑ Oxygenates (8260B) ☐ 8 RCRA Metals ☐ Nitrate ☐ Ethanol
☑ EDB (8011) ☐ TPH ☐ Sulfate ☐ Dissolved Iron
☐ PAH (8270D) ☐ pH ☐ Other _____

Drinking Water Supply Wells:

☐ BTEXNMDCA (524.2) ☐ Mecury (200.8 245.1 or 245.2) ☐ EDB (504.1)
☐ Oxygenates & Ethanol (8260B) ☐ RCRA Metals (200.8)

Soil:

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

Air:

☐ BTEXN

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

_____ Soil _____ Water Supply Wells _____ Air 1 Field Blank
30 Monitoring Wells 1 Surface Water 2 Duplicate 2 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: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

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 #: 14324 Facility Name: Unknown UST 14324 (Former Red Diamond)

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 2/24/2020 Field Work Completion: 3/24/2020

Report Submittal: 4/24/2020 # of Copies Provided to Property Owners: 0

Aquifer Characterization

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

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: 300.0 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the site visit, MECI was unable to locate MW-1, MW-4, RW-1, and EP-12. If any of these wells are located during sampling activities, they will be sampled accordingly.

-MECI recently replaced MW-21 and installed five additional monitoring wells.

-Unless otherwise requested by SCDHEC, all monitoring wells will be purged and sampled for BTEXNM, DCA, Oxy's (8260B) and EDB (8011).

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: _____

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

Name of Well Driller: _____

SCLLR Certification Number: _____

None 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

dhec
Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Unknown UST 14324 (Former Red Diamond)

UST Permit #: 14324 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	3	each	$423.00	$1,269.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	30	per well/receptor	$60.00	$1,800.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater No Purge or Duplicate	3	per well/receptor	$28.00	$84.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60
I. Groundwater (low flow purge)		per well/receptor	$91.00	$0.00

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	36	per sample	$122.00	$4,392.00
AA1. Lead, Filtered		per sample	$13.80	$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60	$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40	$0.00
D1. PAH's		per sample	$60.60	$0.00
E1. Lead		per sample	$16.00	$0.00
F1. EDB by EPA 8011	34	per sample	$45.20	$1,536.80
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20	$0.00
G1. 8 RCRA Metals		per sample	$63.40	$0.00
H1. TPH (9070)		per sample	$41.00	$0.00
II. pH		per sample	$5.20	$0.00
J1. BOD		per sample	$20.00	$0.00
PP. Ethanol		per sample	$14.80	$0.00
11. Analyses-Drinking Water				
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05	$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75	$0.00
N. EDB (504.1)		per sample	$79.50	$0.00
O. RCRA METALS (200.8)		per sample	$100.00	$0.00
11. **Analyses-Soil**				
Q1. BTEX + Naphth.		per sample	$64.00	$0.00
R1. PAH's		per sample	$64.04	$0.00
S1. 8 RCRA Metals		per sample	$56.40	$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00	$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96	$0.00
W1. Grain size/hydrometer		per sample	$104.00	$0.00
X1. Total Organic Carbon		per sample	$30.60	$0.00
11. **Analyses-Air**				
Y1. BTEX + Naphthalene		per sample	$216.00	$0.00
11. **Analyses-Free Phase Product**				
Z1. Hydrocarbon Fuel Identification		per sample	$357.00	$0.00
12. **Aquifer Characterization**				
A1. Pumping Test*		per hour	$23.00	$0.00
B1. Slug Test*		per test	$191.00	$0.00
C1. Fractured Rock		per test	$100.00	$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00	$0.00
14. **Fate/Transport Modeling**				
A1. Mathematical Model		each	$100.00	$0.00
B1. Computer Model		each	$100.00	$0.00
15. **Risk Evaluation**				
A. Tier I Risk Evaluation		each	$300.00	$0.00
B1. Tier II Risk Evaluation		each	$100.00	$0.00
16. A1. **Subsequent Survey***		each	$260.00	$0.00
17. **Disposal (gallons or tons)***				
AA. Wastewater	300	gallon	$0.56	$168.00
BB. Free Product		gallon	$0.50	$0.00
C1. Soil Treatment/Disposal		ton	$60.00	$0.00
D1. Drilling fluids		gallon	$0.42	$0.00
18. **Miscellaneous (attach receipts)**				
		each	$0.00	$0.00
		each	$0.00	$0.00
		each	$0.00	$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard		$0.00
21. **IGWA (Use DHEC 3666 form)**		standard		$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid		$0.00

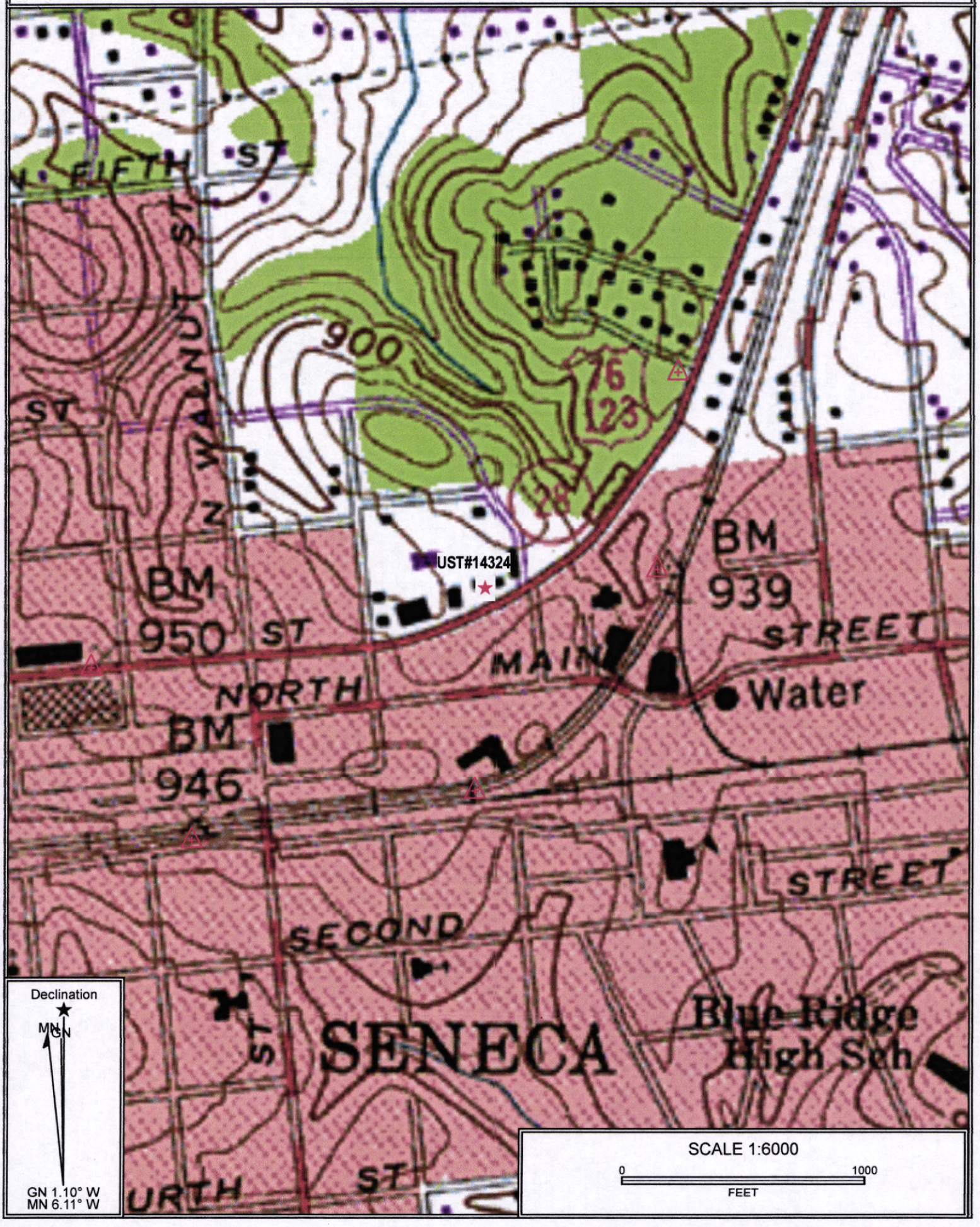
23. **Aggressive Fluid & Vapor Recovery (AFVR)**				
A1. 8-hour Event*		each	$1,375.00	$0.00
AA. 24-hour Event*		each	$3,825.00	$0.00
A3. 48-hour Event*		each	$6,265.00	$0.00
A4. 96-hour Event*		each	$12,567.50	$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50	$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50	$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00	$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00	$0.00
D. Site Reconnaissance		each	$203.25	$0.00
E1. Additional Hook-ups		each	$25.75	$0.00
F1. Effluent Disposal		gallon	$0.44	$0.00
G. AFVR Mobilization/Demobilization		each	$391.50	$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**				
A1. New GAC System Installation*		each	$1,900.00	$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00	$0.00
C1. Filter replacement/removal*		each	$350.00	$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00	$0.00
E1. GAC System housing*		each	$250.00	$0.00
F. In-line particulate filter		each	$150.00	$0.00
G1. Additional piping & fittings		foot	$1.50	$0.00
25. **Well Repair**				
A1. Additional Copies of the Report Delivered		each	$50.00	$0.00
B1. Repair 2x2 MW pad*		each	$50.00	$0.00
C1. Repair 4x4 MW pad*		each	$88.00	$0.00
D1. Repair well vault*		each	$118.00	$0.00
F1. Replace well cover bolts		each	$2.60	$0.00
G. Replace locking well cap & lock		each	$15.00	$0.00
H1. Replace/Repair stick-up*		each	$134.00	$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00	$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00	$0.00
K1. Replace missing/illegible well ID plate		each	$12.00	$0.00
Report Prep & Project Management	12%	percent	$9,424.40	$1,130.93
TOTAL				$10,555.33

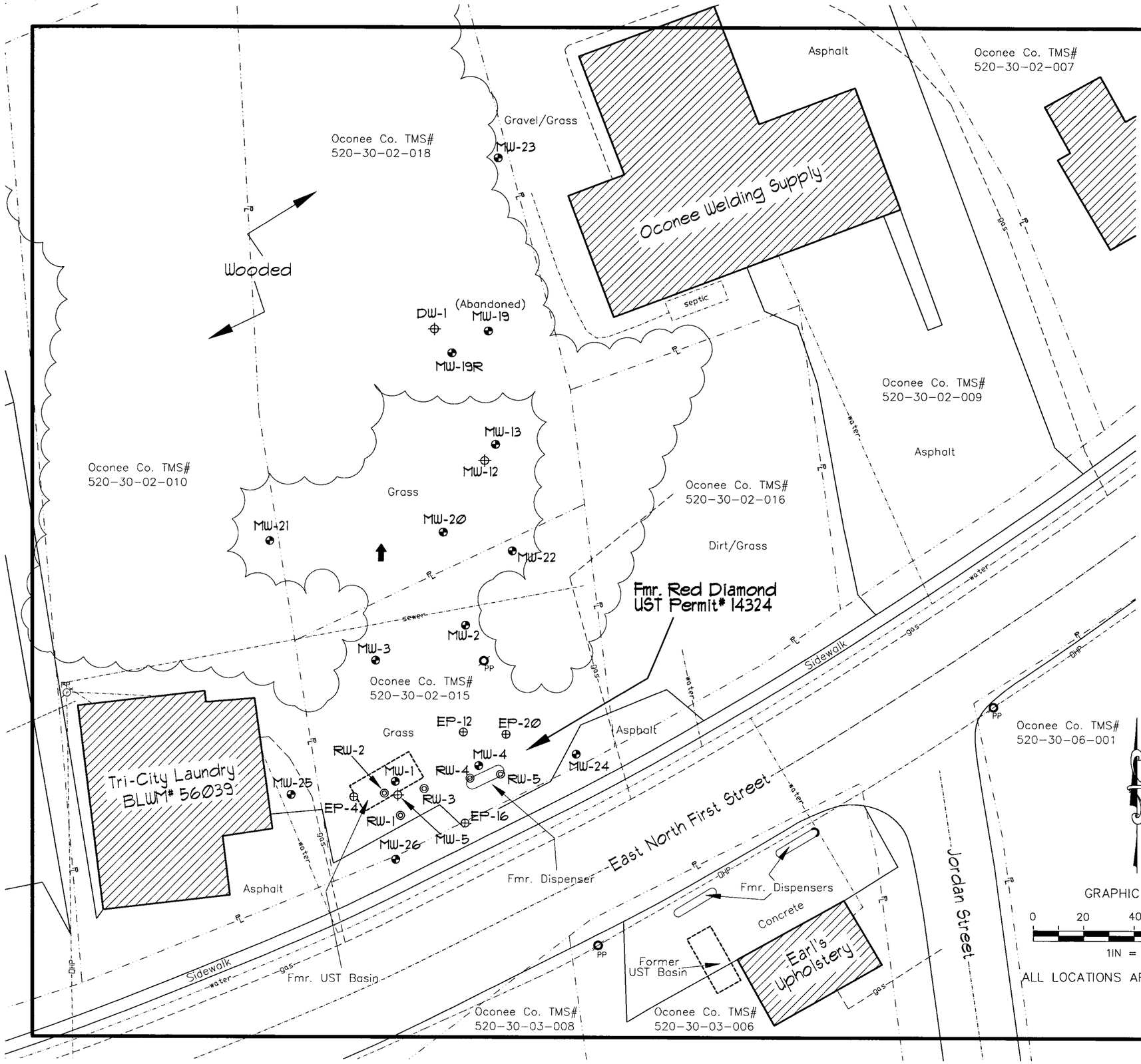
DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary

Map Name: SENECA
Print Date: 02/25/19

Scale: 1 inch = 500 ft.
Map Center: 034° 41' 12.05" N, 082° 56'

Horizontal Datum: NAD27





Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- P/L — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 19-6823
DATE February 21, 2019
FIGURE 2

Document Receipt Information

☒ Hard Copy ■ CD ☐ Email

Date Received 3-25-20

Permit Number 14324

Project Manager Conner Westbrook

Name of Contractor MECI

UST Certification Number _____

Docket Number 75deck

Scanned _____

MW Installation report

REPORT OF MONITORING WELL INSTALLATION

Former Red Diamond (Unknown UST 14324)
519 East North 1st Street
Seneca, South Carolina
SCDHEC SITE ID 14324
CA # 58986

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road, Lexington, SC 29073
(803) 808-2043 Fax: 808-2048

March 6, 2020

MECI Project No. 19-6823

Midlands Environmental Consultants, Inc.

March 6, 2020

Mr. Conner Westbrook, Hydrogeologist
Assessment & Unregulated Petroleum Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Monitoring Well Installation
Former Red Diamond (Unknown UST 14324)
519 East North 1st Street
Seneca, South Carolina
SCDHEC Site ID# 14324, CA # 58986
MECI Project Number 19-6823
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Westbrook,

On behalf of Ms. Betty Lathem (Trustee), Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Monitoring Well Installation. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle X. Jacobs
Staff Hydrogeologist

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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APPENDIX K – DATA VERIFICATION CHECKLIST

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

A. **Owner/Operator Information**

Facility Name:	Unknown UST 14324	UST Permit #:	14324
Facility Address:	519 E N 1st Street, Seneca, SC 29678		
Name:	Ms. Betty Lathem		
Address:	2 Stratton Place, Greenville, SC 29615-4217		
Telephone #:	(864) 288-6480		

B. **Property Owner Information**

Name	Anthony H. Smith
Tax Map #:	Oconee County Tax Map#: 520-30-02-015
Address	146 Emerald Road, Seneca, SC 29678
Telephone #	(864) 882-4376

C. **Contractor Information**

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

D. **SCDHEC Certified Well Driller**

Name:	Environmental Drilling Probe Services, LLC
Driller:	Tommy Bolyard
Certification #:	B 01846
Address:	17538 Greenhill Road, Charlotte, NC 28278
Telephone #:	704-607-7529

E. **SCDHEC Certified Laboratory**

Name:	N/A
Certification #:	N/A
Address:	N/A
Telephone #:	N/A

1.1 PROJECT INFORMATION

The subject site (Former Red Diamond/UST Unknown 14324) is located at 519 East North 1st Street in Seneca, Oconee County, South Carolina (See Figure 1). The site is currently a vacant lot. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
2	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
3	500 Gal. Kerosene	Abandoned	Removed (12/19/1991)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in December of 1991. This release was subsequently confirmed

in March of 1992 and has been ranked a class 3BA due to free phase petroleum product historically being detected in onsite monitoring wells at a thickness greater than 0.01' foot.

The following table presents previous site activities performed at the site:

Date	Assessment Type	Notes:
March, 2015	Groundwater Sampling Event (GWS)	MECI completed a groundwater sampling event at the subject site.
June, 2015	Monitoring & Recovery Well Installation	MECI completed the installation of nine monitoring wells and five recovery wells associated with the subject site.
May, 2018	Groundwater Sampling Event (GWS)	MECI completed a groundwater sampling event at the subject site.
March, 2019	Aggressive Fluid Vapor Recovery (AFVR) Events	MECI completed 2-96hr Aggressive Fluid Vapor Recovery (AFVR) events.

The above project information is based on MECI field notes and SCDHEC files.

2.0 SURROUNDING PROPERTY USAGE

The subject site is currently a vacant lot located within the town limits of Seneca, Oconee County, South Carolina. East North 1st Street forms the southern property boundary, beyond which are commercial properties to include a former gasoline service station (Earl's Upholstery). East of the site is a vacant commercial lot, beyond which is Oconee Welding Supply and additional commercial properties. West of the site is bordered by a dry-cleaning facility (Tri-City Cleaners/BLWM# 56039), beyond which are commercial properties. North of the site is an open grass lot and wooded areas, beyond which are residential properties.

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property, as depicted on the local USGS quadrangle (Seneca, South Carolina), appears to be approximately 960 feet above sea level. The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Oconee County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial aquifer. After the water has reached the surficial aquifer, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank

pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on the hydraulic gradient) of groundwater flow from the release is to the north, toward drainage features associated with the Cane Creek.

3.1 LOCAL SUBSURFACE CONDITIONS

Piedmont Residual soils were encountered during drilling activities conducted at the site. The soils encountered in our borings generally consisted of fine sandy clays to clays near surface which were underlain by predominately clay. A generalized vertical profile to investigated depth of 65' feet below ground surface (BGS) is as follows:

Depth (Feet BGS)	Generalized Soil Description
0.0'-10.0'	Tan/ Yellow, Fine Sandy CLAY
10.0'-20.0'	Tan/ Red, CLAY
20.0'-40.0'	Red, CLAY
40.0'-65.0'	Tan / Brown, Clay

Test Boring Records, which depict the materials encountered in each boring, are located in Appendix E.

The above descriptions provide a general summary of the subsurface conditions encountered. The attached Test Boring Records (Appendix E) contain detailed information recorded at each new monitoring well location. The Test Boring Records represent our interpretation of the field logs based on examination of the field samples. The lines designating the interfaces between various strata represent approximate boundaries, and the transition between strata may be gradational.

On February 18, 2020 stabilized groundwater levels were measured in the newly installed wells. Depth to groundwater ranged from 25.56 to 37.62 feet from the top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- Installation of six groundwater monitoring wells; and
- subsequent survey;

4.1 MONITORING WELL INSTALLATION

On February 13, 2020, six additional wells were installed at the site. These wells were installed by Environmental Drilling and Probing Services, LLC. of Charlotte, North Carolina, (S.C. Driller Certification: Tommy Bolyard # B 01846) to better define the contaminant plume emanating from the

site. The monitoring wells were installed with a truck mounted air rotary drilling rig. Monitoring wells 14324-MW21R, 14324-MW27, 14324-MW28, 14324-MW29, 14324-DW02 and 14324-DW03 were completed by employing 7.5-inch outer diameter hollow stem augers.

The following table presents well installation details:

Well Number	Single Cased	Double Cased	Screened	Total Depth (ft)
14324-MW21R	X		22.00-32.00	32.11'
14324-MW27	X		30.00-40.00	40.98'
14324-MW28	X		32.00-42.00	42.51'
14324-MW29	X		35.00-45.00	46.28'
14324-DW02	X		60.00-65.00	65.13'
14324-DW03	X		60.00-65.00	65.81'

The soils encountered during drilling activities consisted of sandy clays to clays of the Piedmont Province. Representative portions of soil samples were screened with a Photo Ionization Detector (PID) and classified by MECI personnel. Test boring records showing soil descriptions and screening result are attached in Appendix E.

Drill cuttings were containerized and transported to Waste Management/Richland County Landfill, Elgin, SC by MECI personnel on February 21, 2020. A total of 1.53 tons was disposed of in this manner. A disposal manifest for these soils is attached at the end of this report.

Following completion of the monitoring wells, the wells were developed by purging until they were determined to be functioning properly and turbidity was reduced. These wells were developed utilizing a Mini-Monsoon submersible well pump. The drum of purge water was treated by MECI personnel using a granular activated carbon drum. A total of 150.00 gallons of purge/development water was disposed of in this manner. A disposal manifest for the treated purge water is presented in Appendix G.

4.2 SITE SURVEY

Following the well installation, a subsequent survey was conducted by MECI personnel, utilizing a fiberglass rod, level, and tape to determine the horizontal and vertical position of the newly installed monitoring wells. A top of casing (TOC) elevation of 99.12 for 14324-MW12, 98.46 for 14324-MW26, and a TOC of 104.14 for 14324-MW-23 were used as benchmarks for surveying purposes. Elevations were based on information given by SCDHEC personnel.

The following table presents site survey results:

Well Number	Top of Casing (TOC) Elevation
14324-MW21R	96.39'
14324-MW27	99.65'
14324-MW28	102.37'
14324-MW29	104.58'
14324-DW02	104.40'
14324-DW03	104.46'

5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

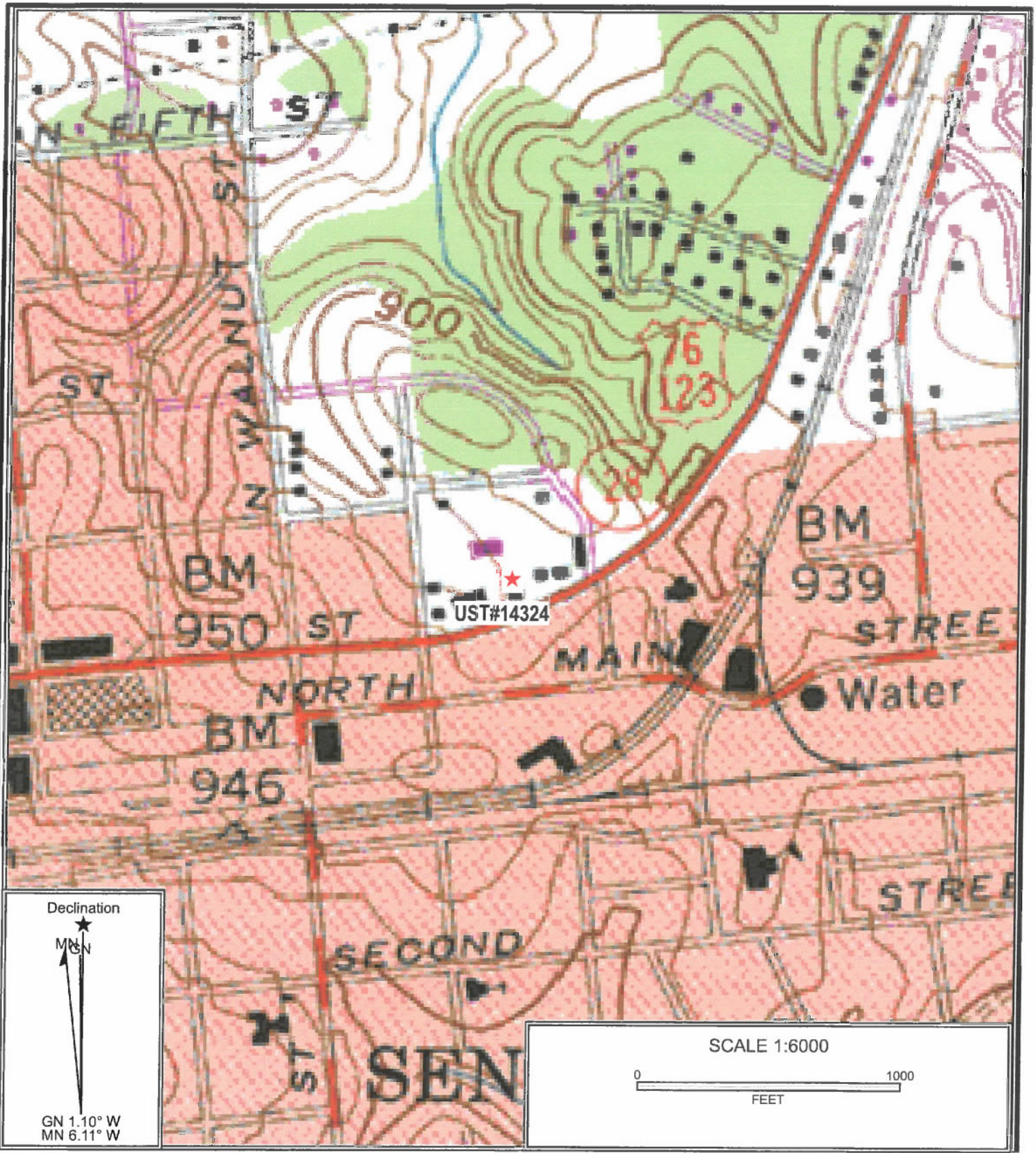
TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 18, 2020 DEVELOPEMENT EVENT
FORMER RED DIAMOND (UNKNOWN UST #14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6823
SCDHEC SITE ID NUMBER 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-1	8/10/2013	25-40	---	26.50	---	98.32	71.82
	11/6/2013		---	26.77	---		71.55
	3/12/2015		---	27.31	---		71.01
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	2/18/2020		---	NM	---		NM
MW-2	8/10/2013	30-40	---	29.00	---	98.60	69.60
	11/6/2013		---	28.20	---		70.40
	3/12/2015		---	29.46	---		69.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	31.01	---		67.59
	2/18/2020		---	NM	---		NM
MW-3	8/10/2013	30-40	---	27.80	---	97.92	70.12
	11/6/2013		---	27.12	---		70.80
	3/12/2015		---	28.07	---		69.85
	6/24/2015		---	NM	---		NM
	5/30/2018		---	ABANDONED	---		ABANDONED
MW-4	8/10/2013	30-40	---	28.34	---	99.07	70.73
	11/6/2013		---	NS	---		NS
	3/12/2015		---	28.81	---		70.26
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	2/18/2020		---	NM	---		NM
MW-5	8/10/2013	60-65	---	27.26	---	98.03	70.77
	11/6/2013		---	26.78	---		71.25
	3/12/2015		---	27.89	---		70.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	29.29	---		68.74
	2/18/2020		---	NM	---		NM
MW-8	8/10/2013	N/A	---	37.08	---	N/A	N/A
	11/6/2013		---	36.44	---		N/A
	3/12/2015		---	ABANDONED	---		ABANDONED
MW-12	8/10/2013	60-65	---	32.22	---	99.12	66.90
	11/6/2013		---	31.10	---		68.02
	3/12/2015		---	32.55	---		66.57
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.75	---		64.37
	2/18/2020		---	NM	---		NM
MW-13	8/10/2013	36-46	---	32.03	---	99.41	67.38
	11/6/2013		---	31.45	---		67.96
	3/12/2015		---	34.15	---		65.26
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.41	---		65.00
	2/18/2020		---	NM	---		NM
MW-19	8/10/2013	35-45	---	33.20	---	99.58	66.38
	11/6/2013		---	31.73	---		67.85
	3/12/2015		---	OBSTRUCTION	---		OBSTRUCTION
	6/24/2015		---	ABANDONED	---		ABANDONED
MW-19R	6/24/2015	30-40	---	34.08	---	99.09	65.01
	5/30/2018		---	34.80	---		64.29
	2/18/2020		---	NM	---		NM
MW-20	6/24/2015	30-40	---	33.92	---	98.30	64.38
	5/30/2018		---	32.30	---		66.00
	2/18/2020		---	NM	---		NM
MW-21	6/24/2015	30-40	---	30.96	---	95.58	64.62
	5/30/2018		---	NL	---		NL
MW-21R	2/18/2020	22-32	---	25.56	---	96.39	70.83
MW-22	6/24/2015	30-40	---	33.10	---	99.03	65.93
	5/30/2018		---	31.43	---		67.60
	2/18/2020		---	NM	---		NM
MW-23	6/24/2015	30-40	---	35.71	---	104.14	68.43
	5/30/2018		---	DRY	---		DRY
	2/18/2020		---	NM	---		NM
MW-24	6/24/2015	30-40	---	33.30	---	100.19	66.89
	5/30/2018		---	31.90	---		68.29
	2/18/2020		---	NM	---		NM
MW-25	6/24/2015	30-40	---	31.57	---	95.40	63.83
	5/30/2018		---	26.48	---		68.92
	2/18/2020		---	NM	---		NM
MW-26	6/24/2015	30-40	---	32.86	---	98.46	65.60
	5/30/2018		29.42	29.52	0.10		69.03
	2/18/2020		---	NM	---		NM
MW-27	2/18/2020	30-40	---	31.22	---	99.65	68.43
MW-28	2/18/2020	32-42	---	35.24	---	102.37	67.13
MW-29	2/18/2020	35-45	---	37.42	---	104.58	67.16
DW-1	6/24/2015	60-65	---	32.67	---	98.63	65.96
	5/30/2018		---	34.19	---		64.44
	2/18/2020		---	NM	---		NM
DW-2	2/18/2020	60-65	---	37.62	---	104.40	66.78
DW-3	2/18/2020	60-65	---	37.62	---	104.46	66.84
RW-1	6/24/2015	20-40	---	31.94	---	98.64	66.70
	5/30/2018		---	NL	---		NL
	2/18/2020		---	NM	---		NM
RW-2	6/24/2015	20-40	---	32.06	---	98.74	66.68
	5/30/2018		---	29.45	---		69.29
	2/18/2020		---	NM	---		NM
RW-3	6/24/2015	20-40	---	31.86	---	98.73	66.87
	5/30/2018		---	29.39	---		69.34
	2/18/2020		---	NM	---		NM
RW-4	6/24/2015	20-40	---	31.62	---	99.31	67.69
	5/30/2018		---	30.60	---		68.71
	2/18/2020		---	NM	---		NM
RW-5	6/24/2015	20-40	---	31.43	---	99.52	68.09
	5/30/2018		---	30.90	---		68.62
	2/18/2020		---	NM	---		NM
EP-4	8/10/2013	20-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	27.70	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		29.13	29.24	0.11	Unknown	Unknown
	2/18/2020		---	NM	---	Unknown	Unknown
EP-12	8/10/2013	20-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	29.73	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	NL	---	Unknown	Unknown
	2/18/2020		---	NM	---	Unknown	Unknown
EP-16	8/10/2013	TD: 34.35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	28.99	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	30.53	---	Unknown	Unknown
	2/18/2020		---	NM	---	Unknown	Unknown
EP-20	8/10/2013	13-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	29.58	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	31.02	---	Unknown	Unknown
	2/18/2020		---	NM	---	Unknown	Unknown

Notes:

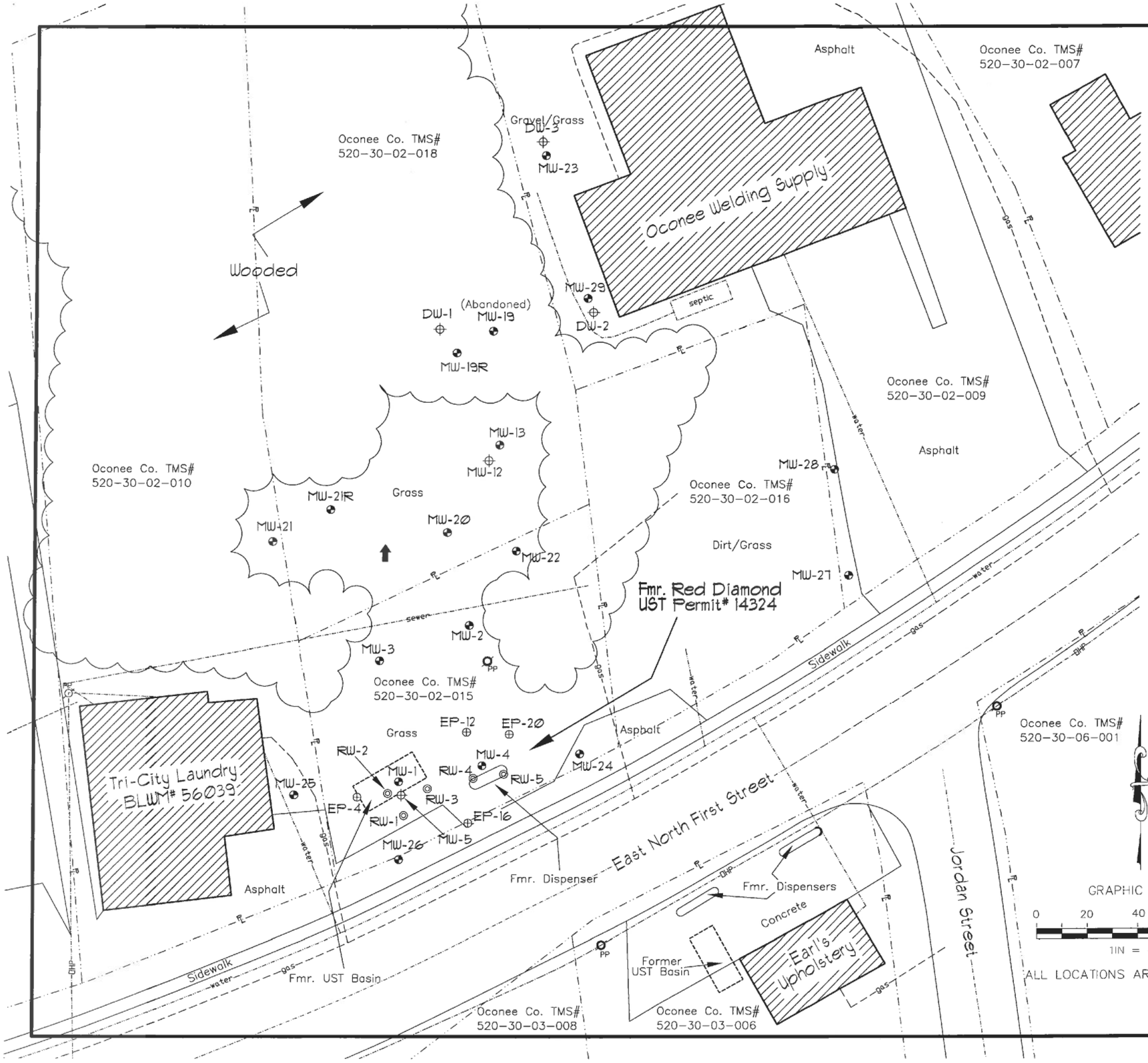
1. Groundwater depths were measured from the top of the PVC riser pipe.
2. Site datum based on assumed spot elevation.
3. NM = Not Measured
4. TD = Total Depth
5. DESTROYED = Well has been destroyed
6. ABANDONED = Well has been Abandoned
7. OBSTRUCTION = Well Ostructed / Unable to determine depth to water.
8. DRY = Well Gauged DRY

FIGURES



Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

Midlands Environmental Consultants, Inc.	Site Location
Former Red Diamond (UST Unknown #14324) 519 East North First Street, Seneca, SC SCDHEC Site ID# 14324	
Figure 1	MECI 19-6823



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-inch Extraction Point
- Location of 4-inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- PL — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

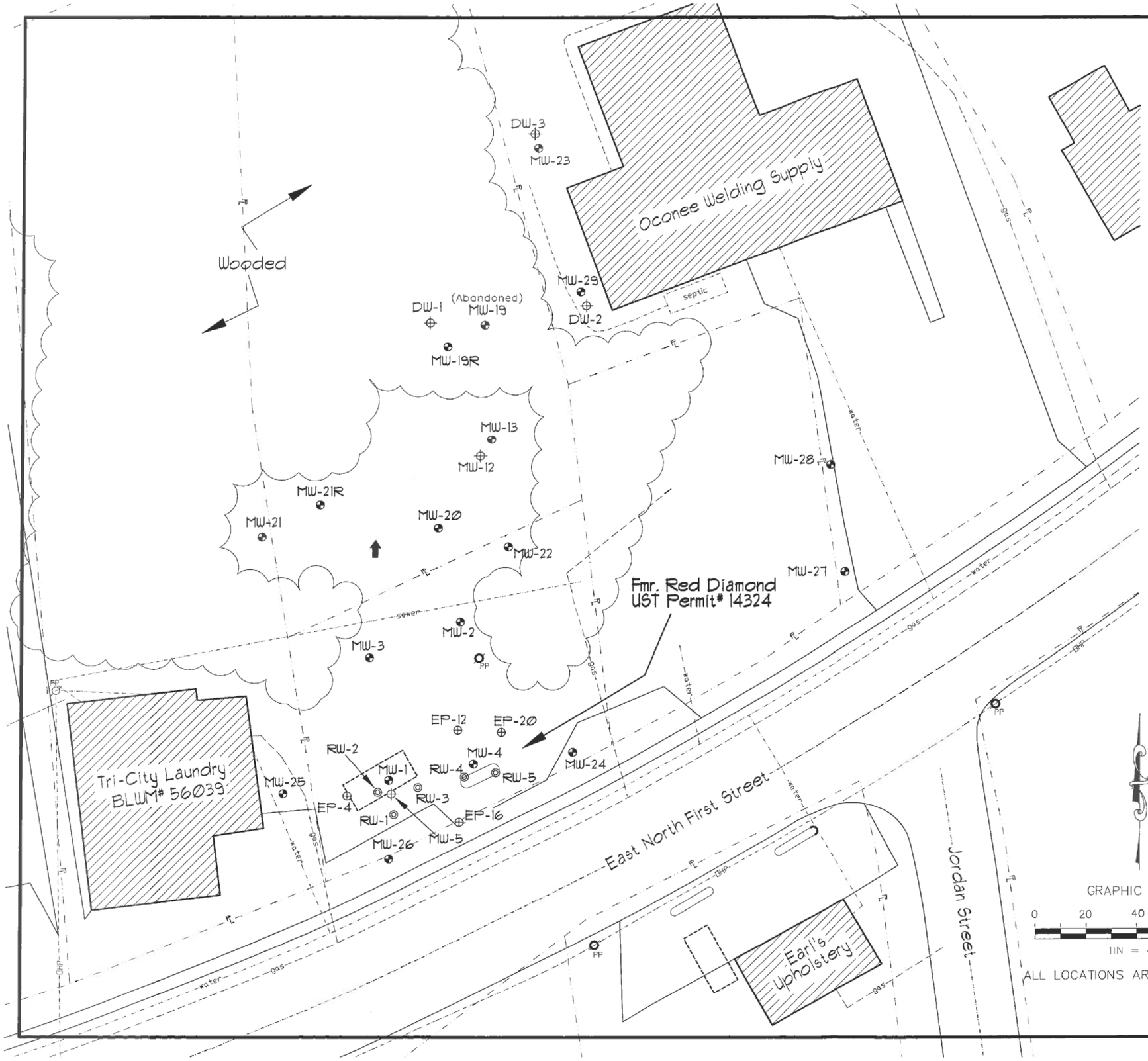
Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 19-6823
DATE March 6, 2020
FIGURE 2



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

POTENTIOMETRIC DATA

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-1	2/18/2020	25-40	NM	98.32	NM
MW-2	2/18/2020	30-40	NM	98.60	NM
MW-4	2/18/2020	30-40	NM	99.07	NM
MW-5	2/18/2020	60-70	NM	98.03	NM
MW-12	2/18/2020	60-65	NM	99.12	NM
MW-13	2/18/2020	36-46	NM	99.41	NM
MW-19R	2/18/2020	30-40	NM	99.09	NM
MW-20	2/18/2020	30-40	NM	98.30	NM
MW-21R	2/18/2020	22-32	25.56	96.39	70.83
MW-22	2/18/2020	30-40	NM	99.03	NM
MW-23	2/18/2020	30-40	NM	104.14	NM
MW-24	2/18/2020	30-40	NM	100.19	NM
MW-25	2/18/2020	30-40	NM	95.40	NM
MW-26	2/18/2020	30-40	NM	98.46	NM
MW-27	2/18/2020	30-40	31.22	99.65	68.43
MW-28	2/18/2020	32-42	35.24	102.37	67.13
MW-29	2/18/2020	35-45	37.42	104.58	67.16
DW-1	2/18/2020	60-65	NM	98.63	NM
DW-2	2/18/2020	60-65	37.62	104.40	66.78
DW-3	2/18/2020	60-65	37.62	104.46	66.84
RW-1	2/18/2020	20-40	NM	98.64	NM
RW-2	2/18/2020	20-40	NM	98.74	NM
RW-3	2/18/2020	20-40	NM	98.73	NM
RW-4	2/18/2020	20-40	NM	99.31	NM
RW-5	2/18/2020	20-40	NM	99.52	NM
EP-4	2/18/2020	20-35	NM	Unknown	Unknown
EP-12	2/18/2020	20-35	NM	Unknown	Unknown
EP-16	2/18/2020	TD: 34.35	NM	Unknown	Unknown
EP-20	2/18/2020	13-35	NM	Unknown	Unknown

Notes: Depth to groundwater measured on February 18, 2020.
Site Datum Based on Assumed Spot Elevation.

GRAPHIC SCALE
0 20 40 60 80
1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Potentiometric Data Site Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 19-6823
DATE March 6, 2020
FIGURE 5

APPENDIX A:

SITE SURVEY

(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

(Not Applicable)

APPENDIX C:

TAX MAP

(Not Applicable)

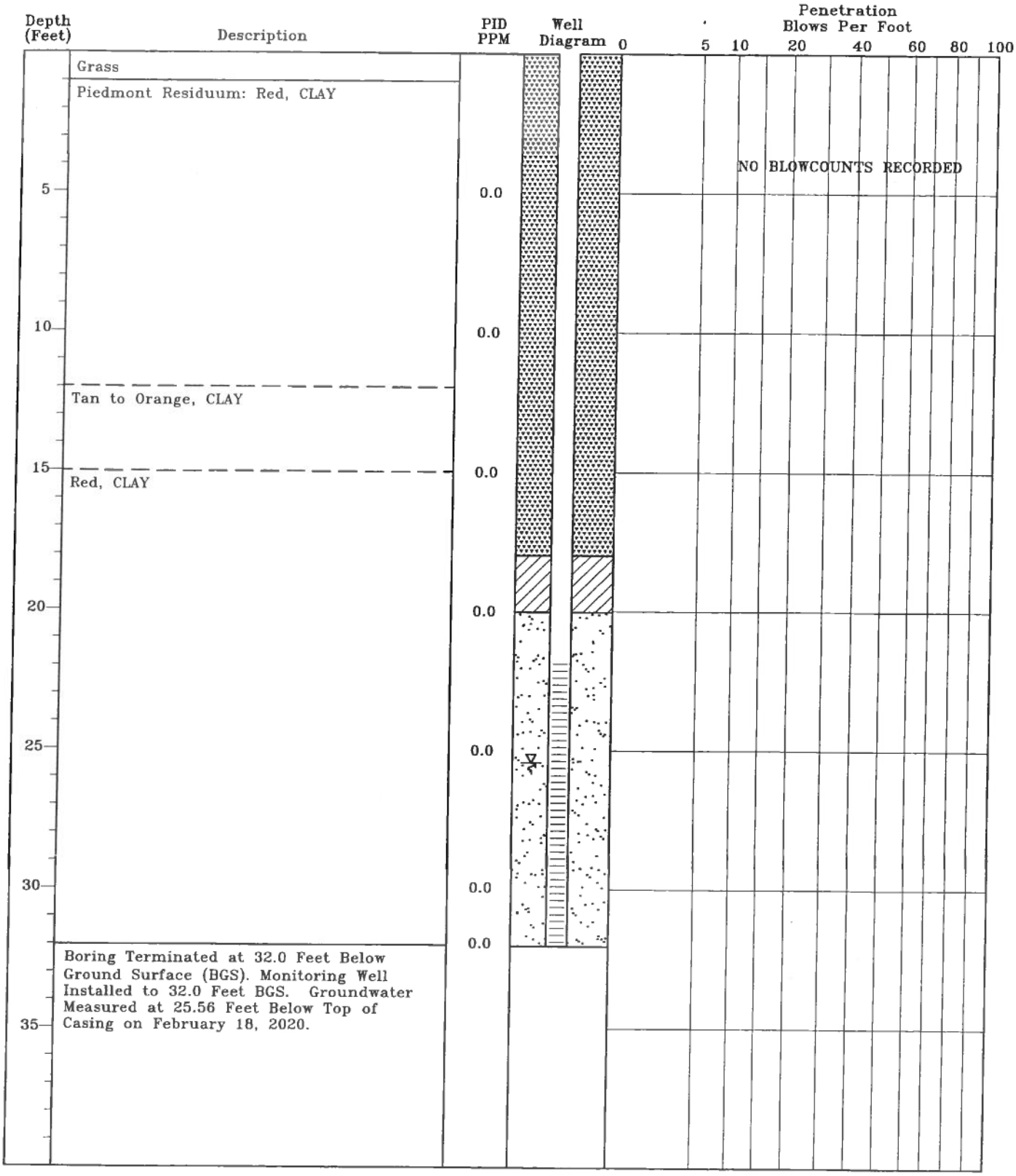
APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:

WELL COMPLETION LOGS & 1903 FORMS



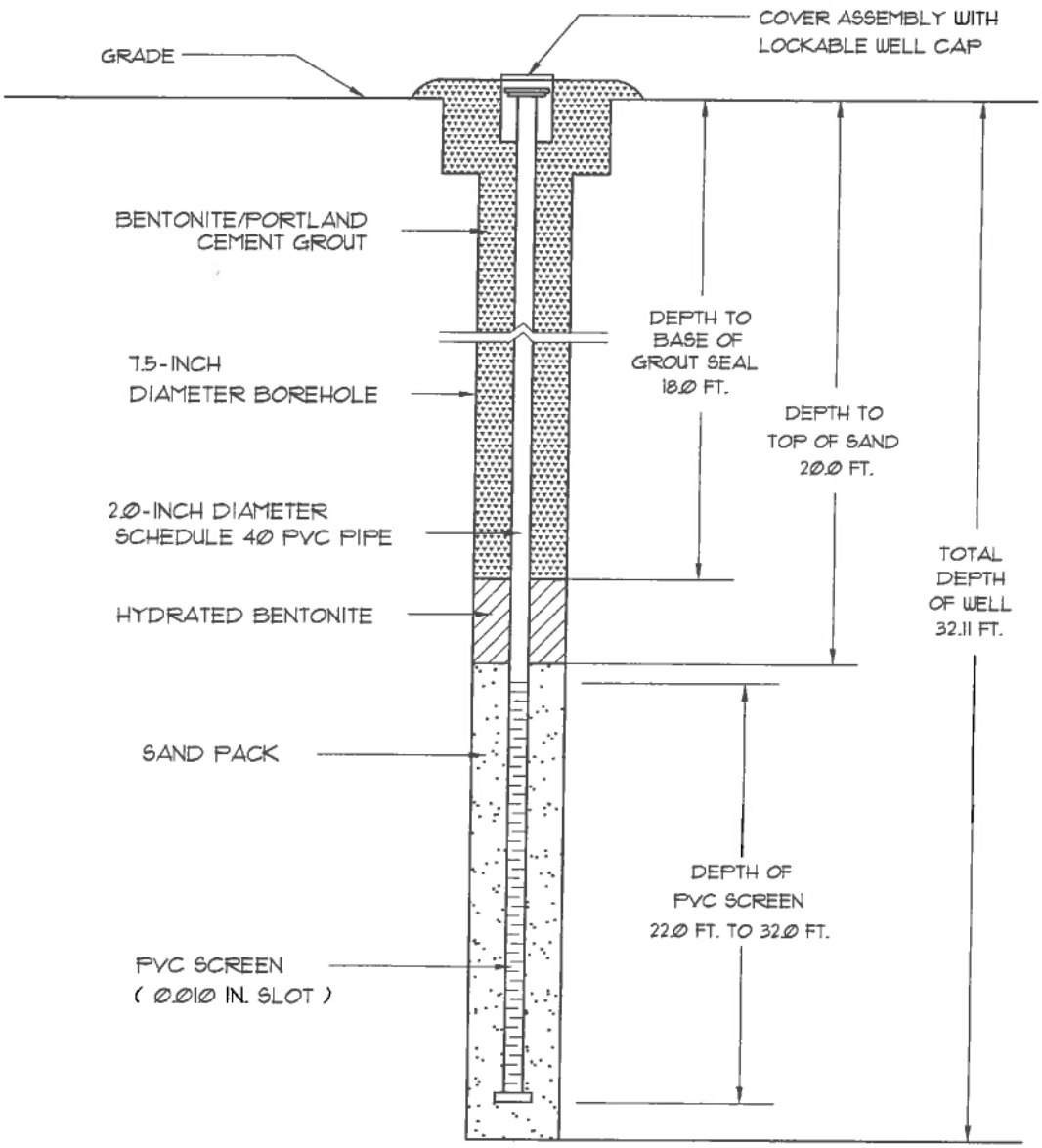
TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-MW21R
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

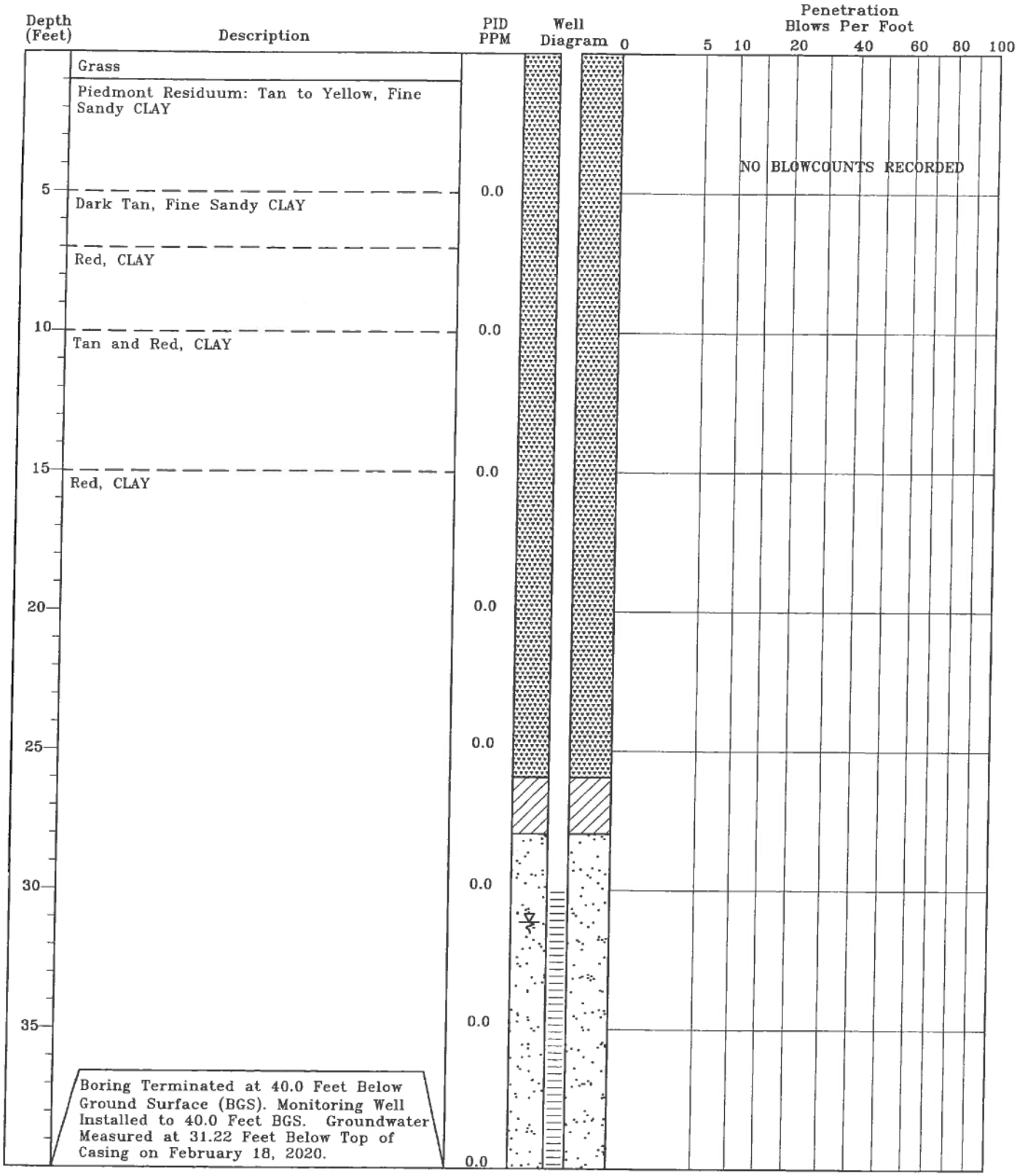
MONITORING WELL INSTALLATION RECORD

UST Unknown 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823



Well Number:	14324-MW21R
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Driller: T. Bolyard	S.C. I.D.#: B01846
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



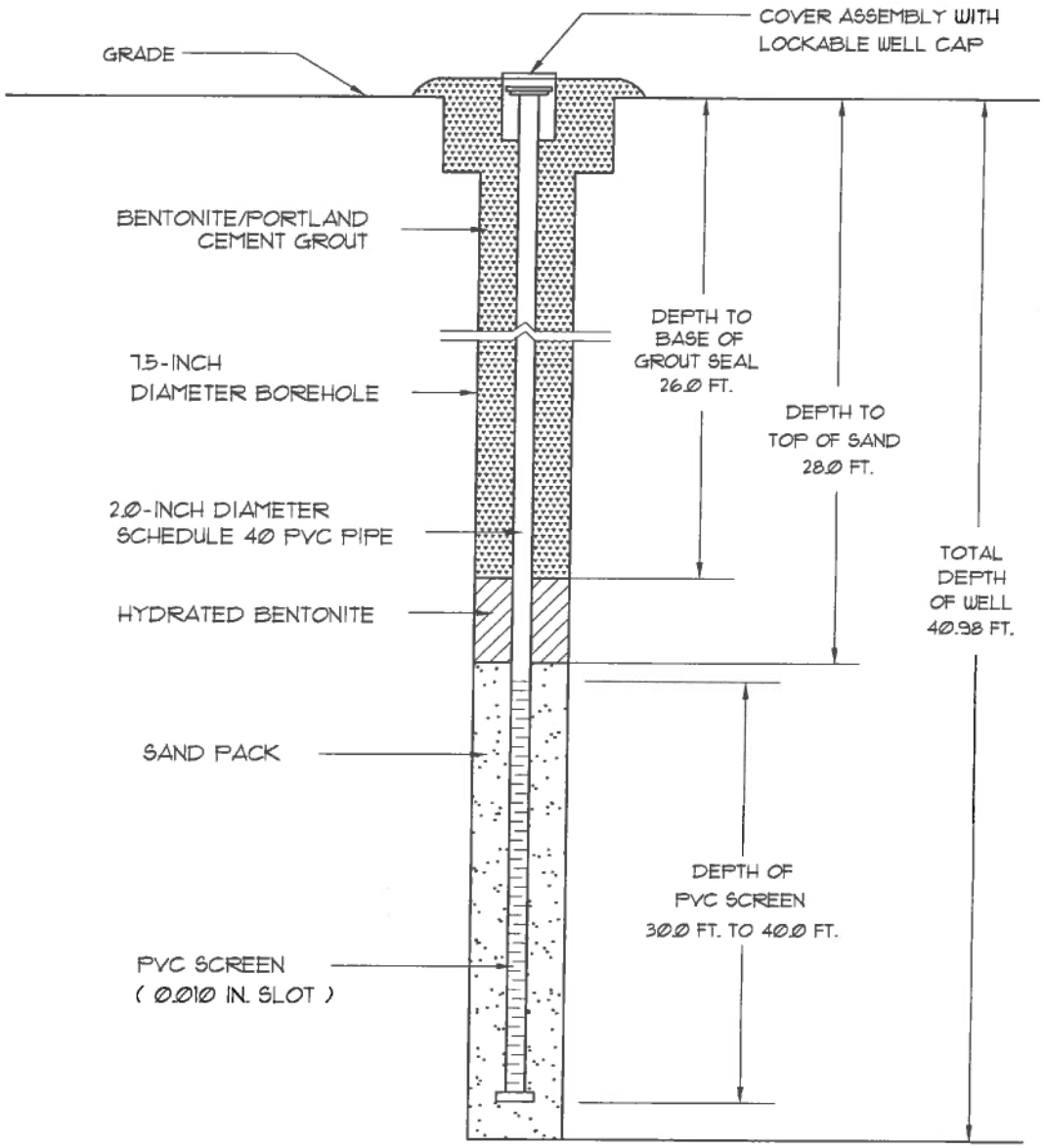
TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-MW27
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

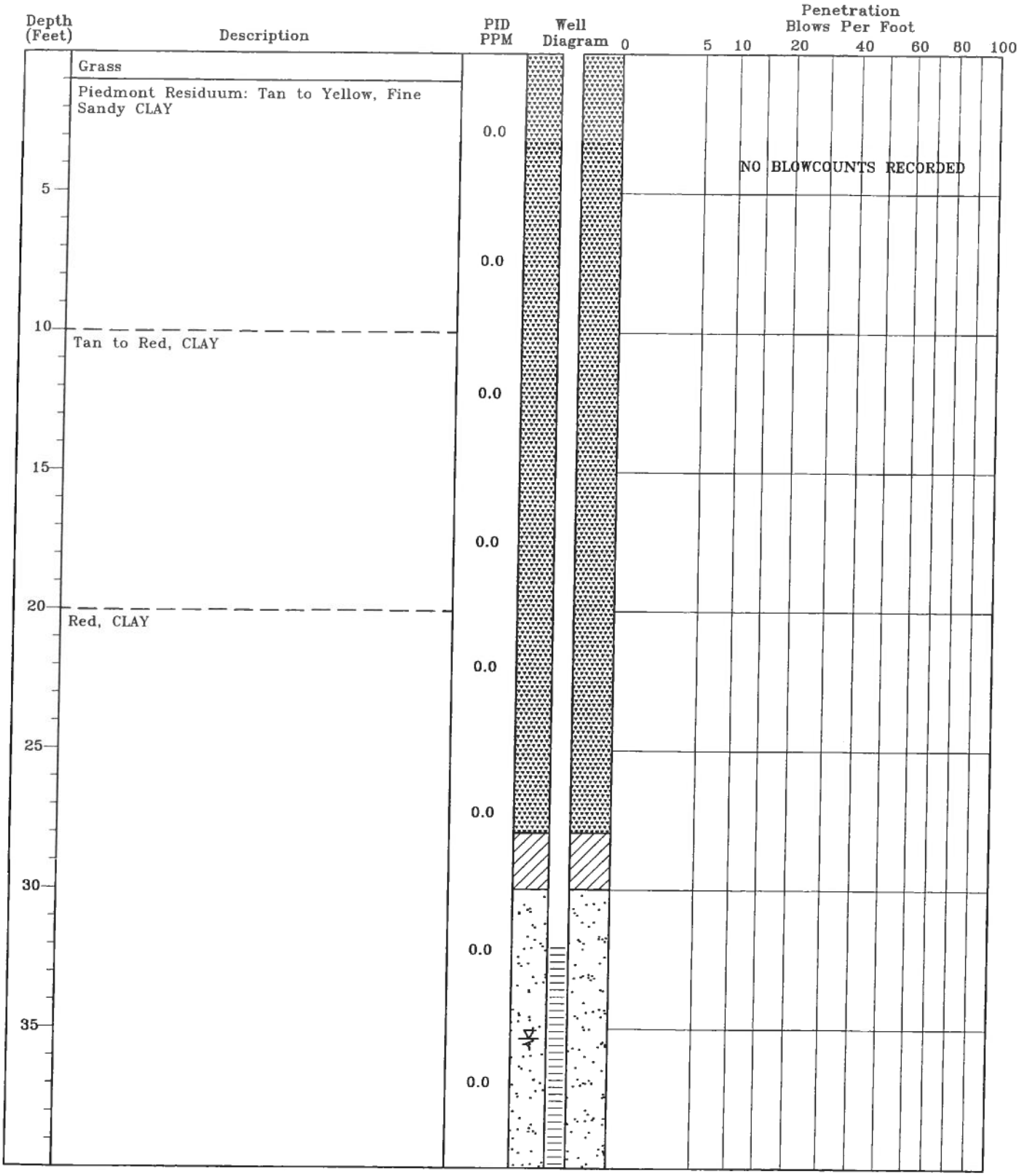
MONITORING WELL INSTALLATION RECORD

UST Unknown 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823



Well Number:	14324-MW27
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Driller: T. Bolyard S.C. I.D.#: B01846	
Logged By:	J. Floyd

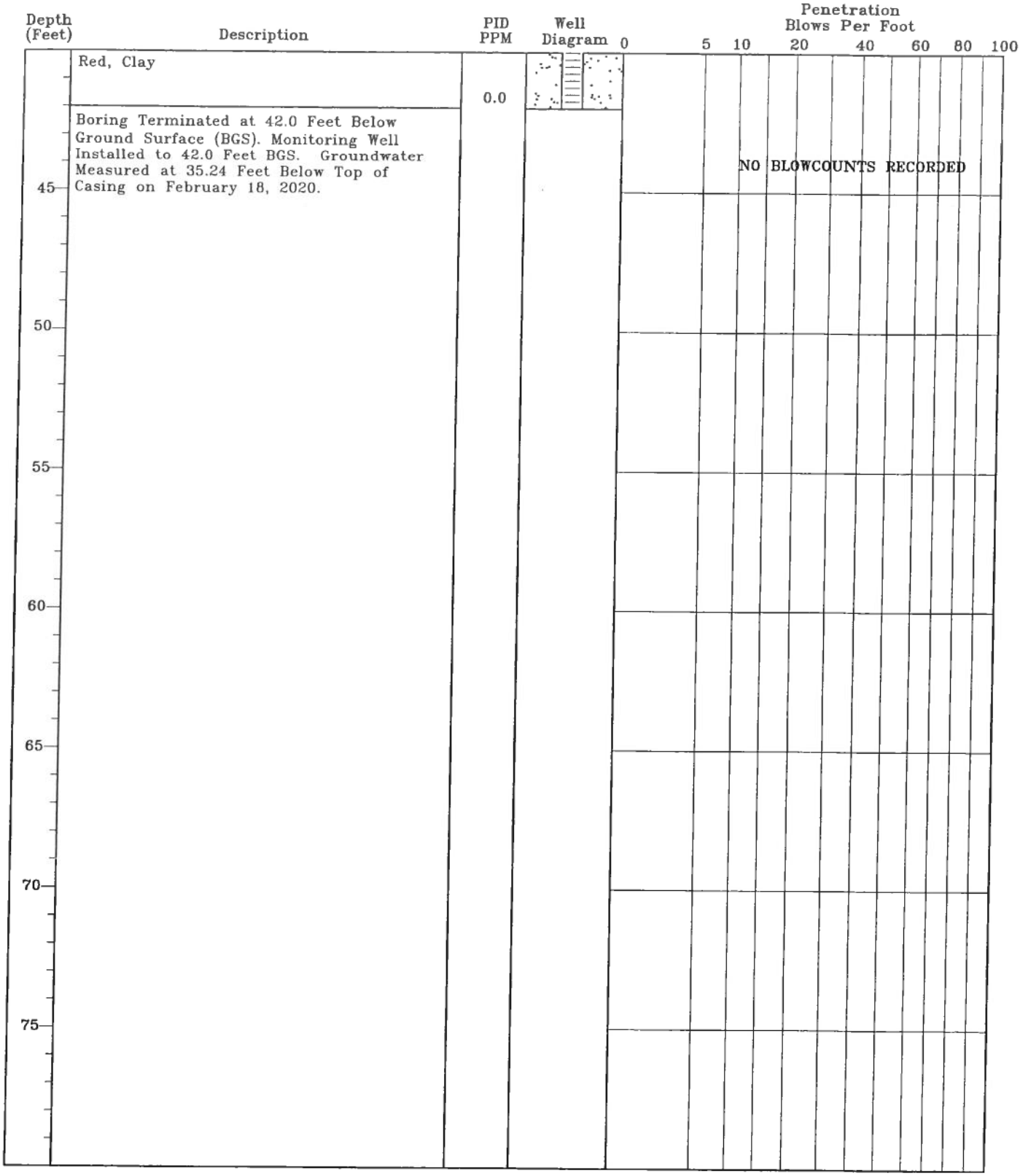
Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-MW28
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



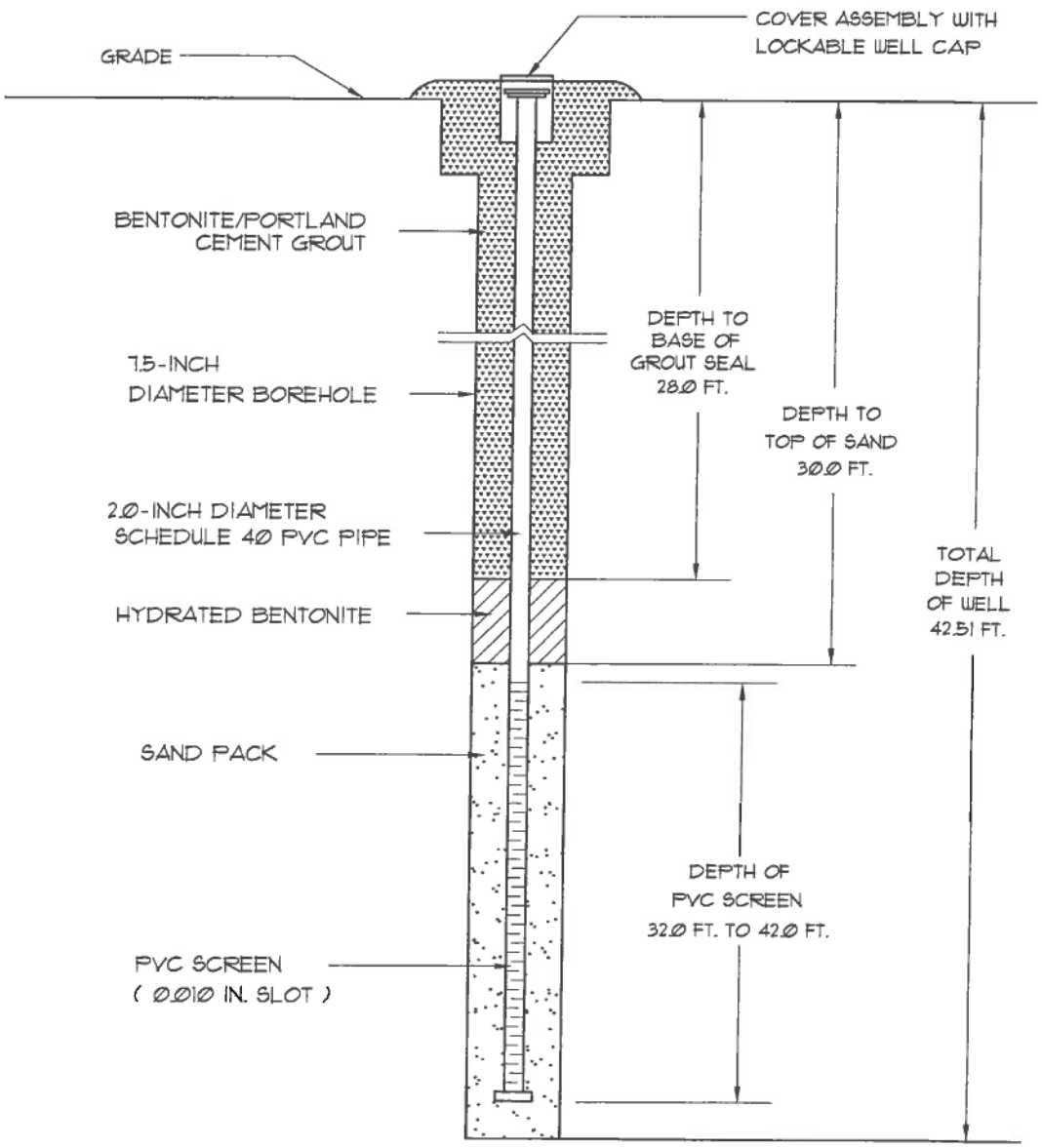
TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-MW28
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

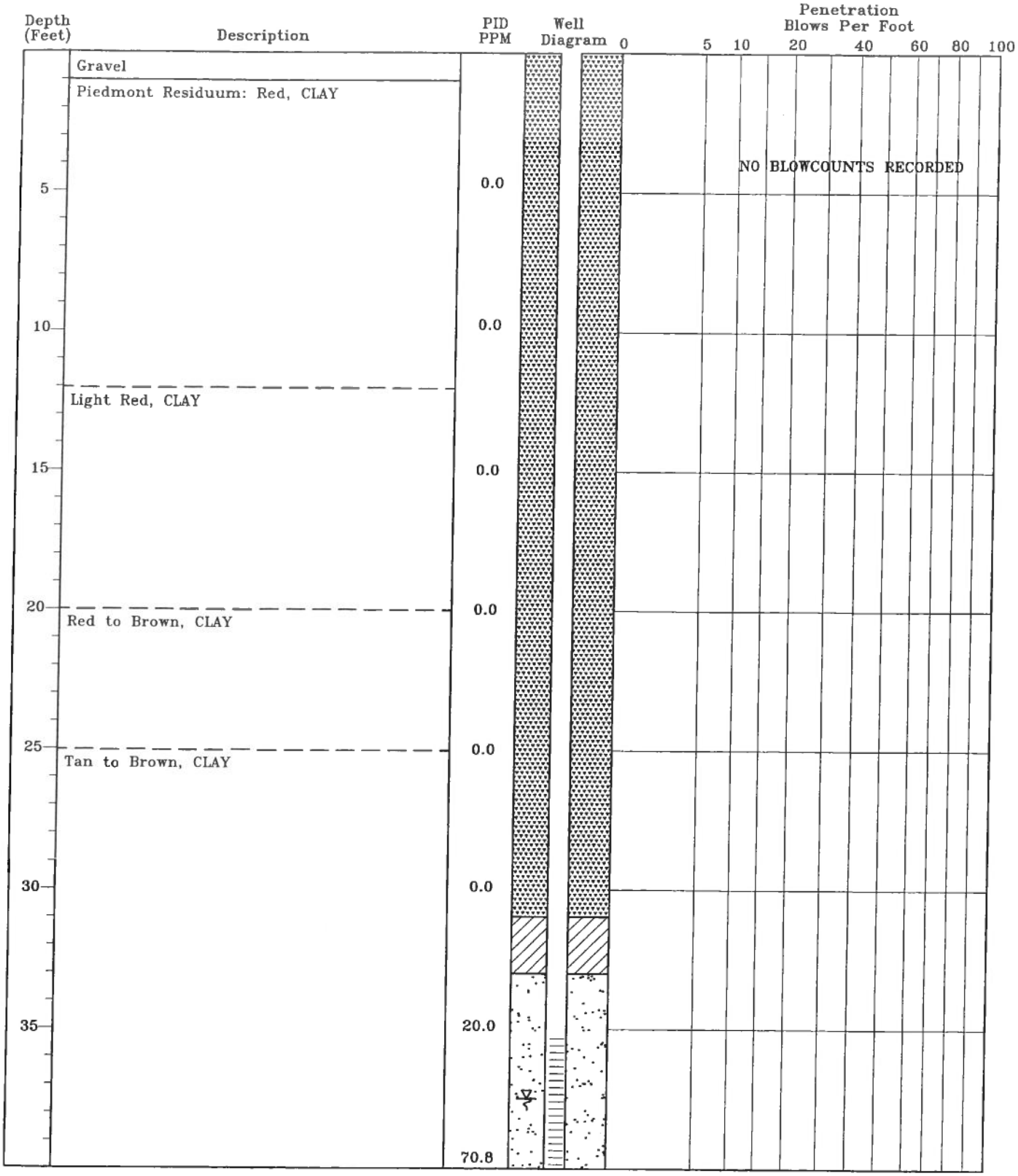
MONITORING WELL INSTALLATION RECORD

UST Unknown 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823



Well Number:	14324-MW28
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Driller: T. Bolyard	S.C. I.D.#: B01846
Logged By:	J. Floyd

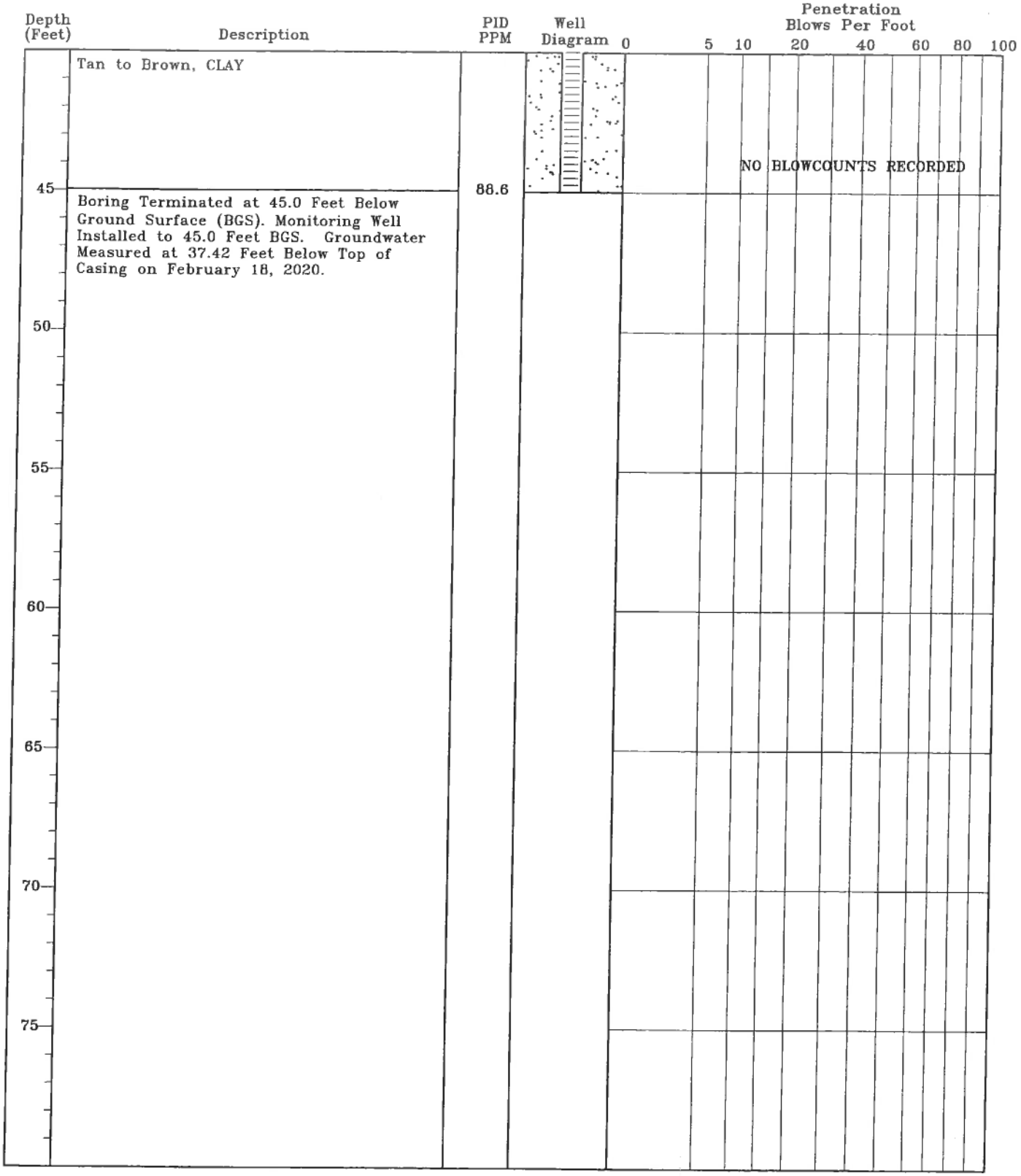
Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-MW29
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



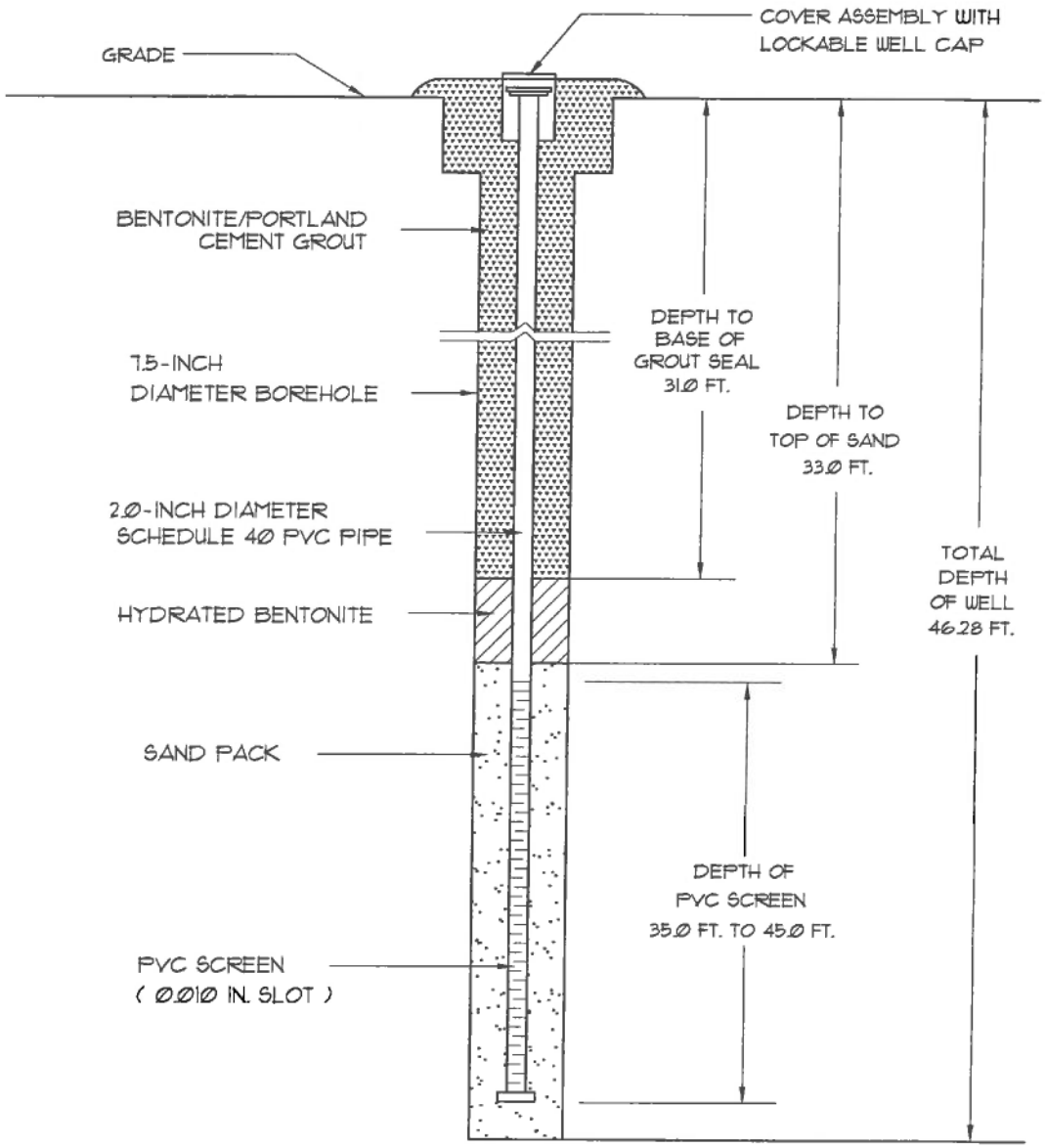
TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-MW29
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

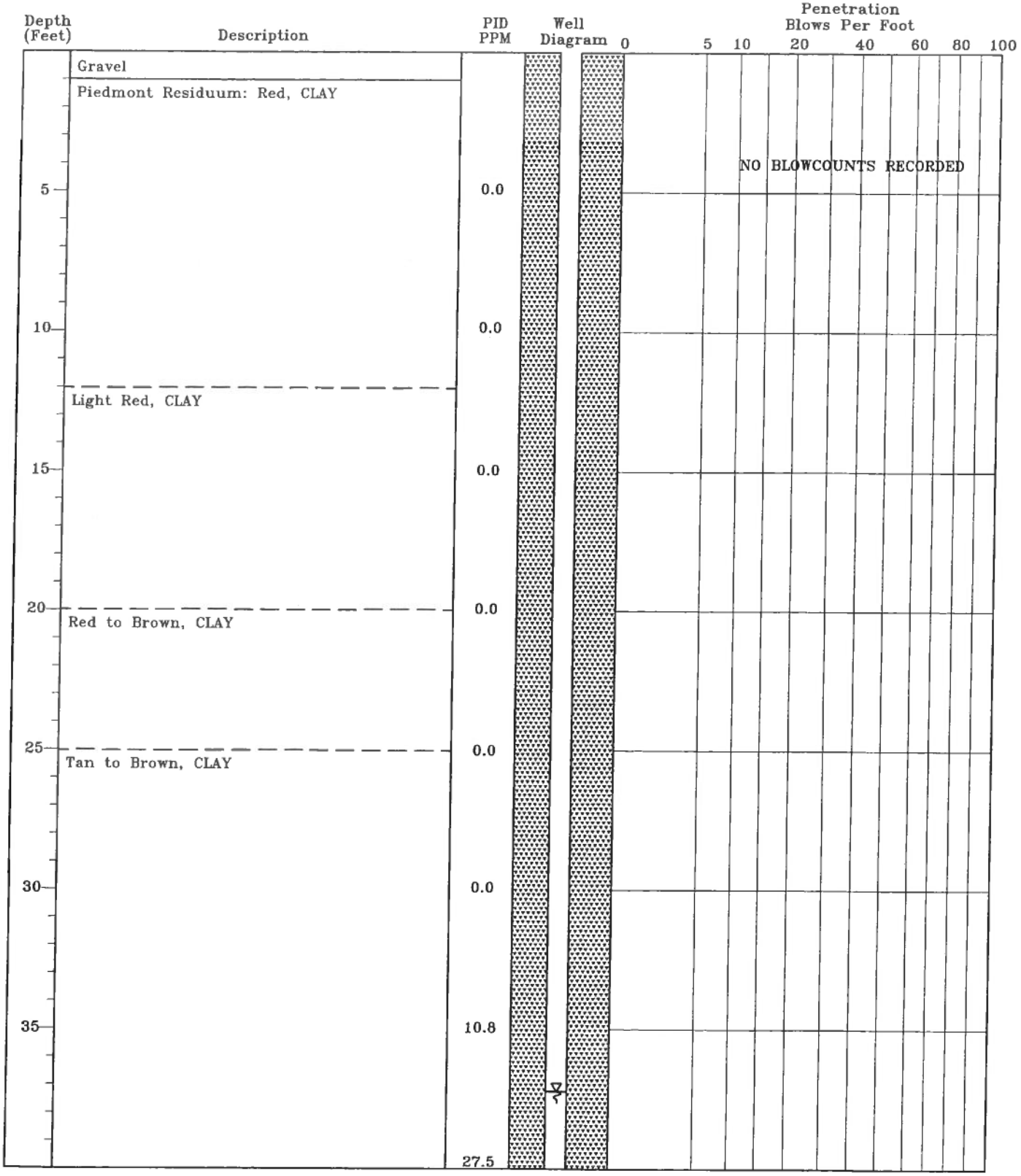
MONITORING WELL INSTALLATION RECORD

UST Unknown 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823



Well Number:	14324-MW29
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Driller: T. Bolyard	S.C. I.D.#: B01846
Logged By:	J. Floyd

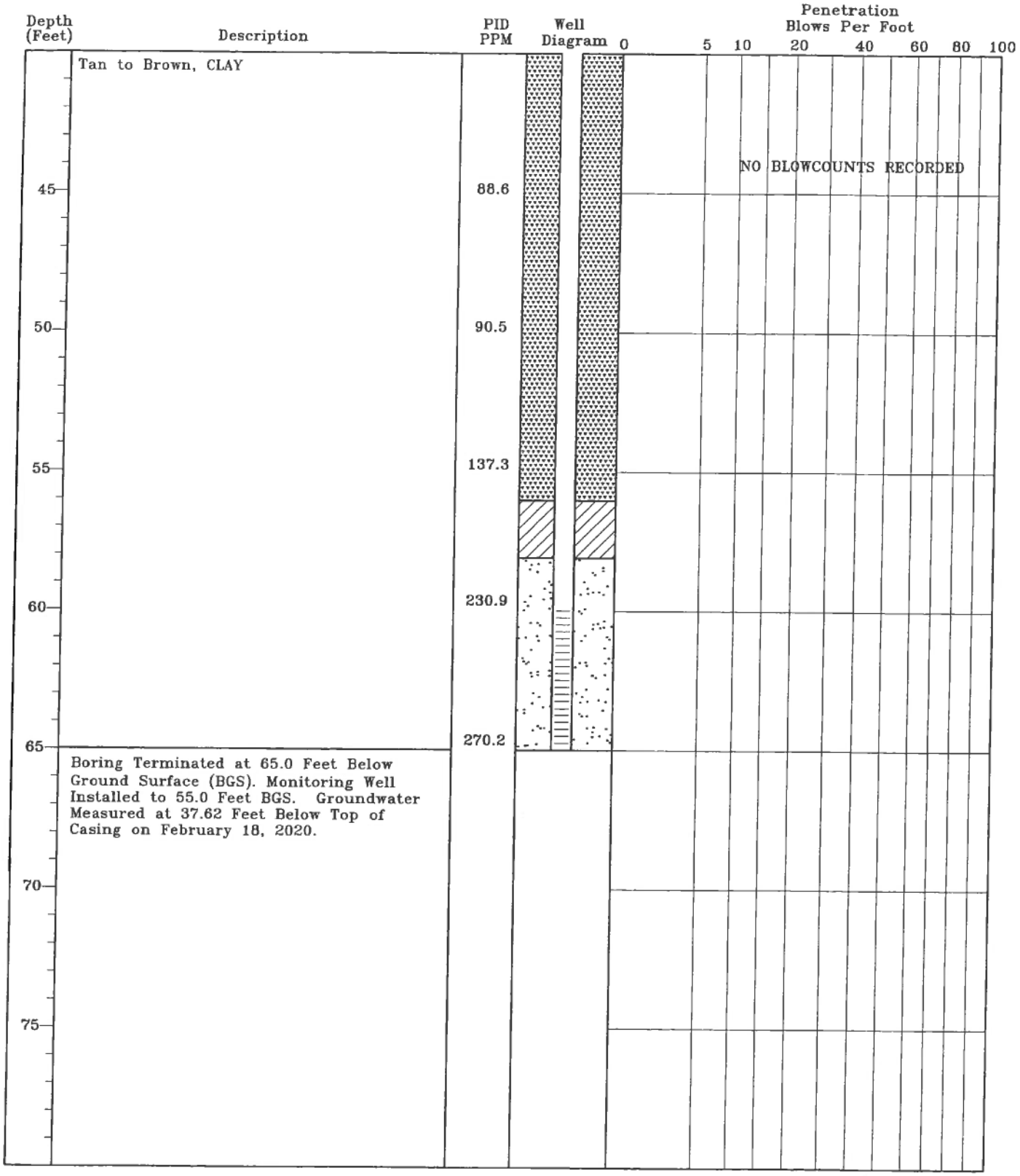
Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-DW02
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048



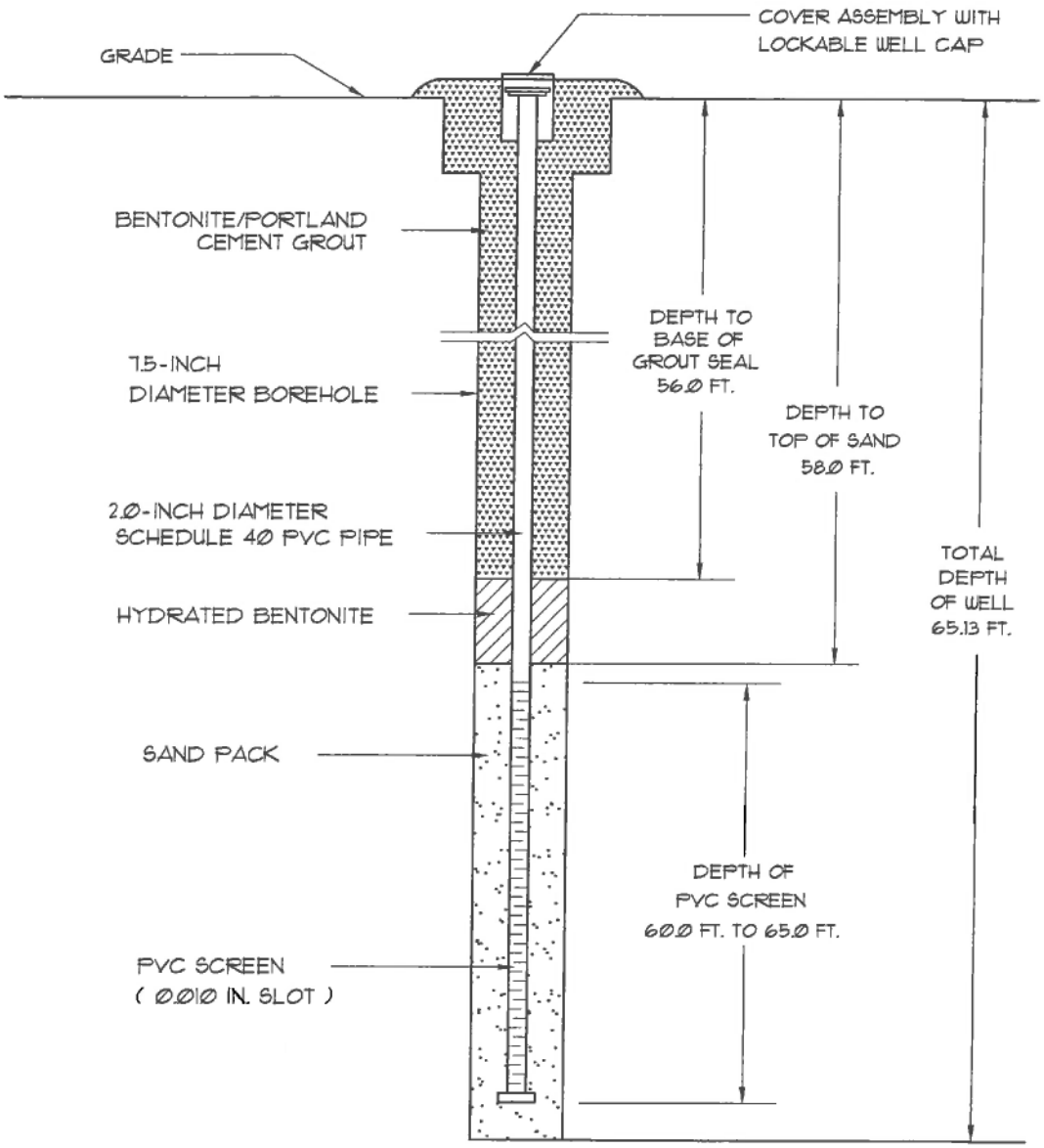
TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-DW02
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

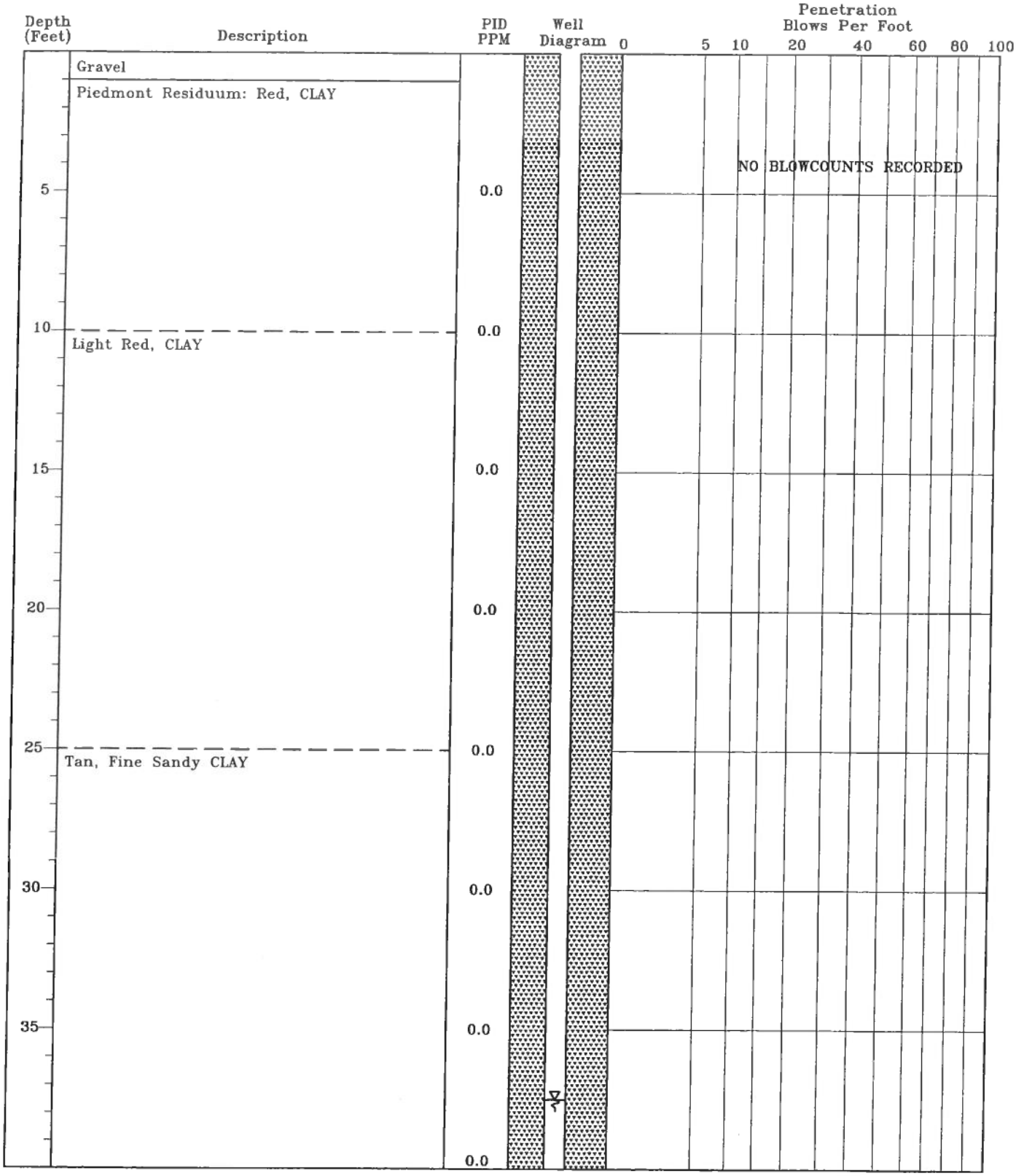
MONITORING WELL INSTALLATION RECORD

UST Unknown 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823



Well Number:	14324-DW02
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Driller: T. Bolyard	S.C. I.D.#: B01846
Logged By:	J. Floyd

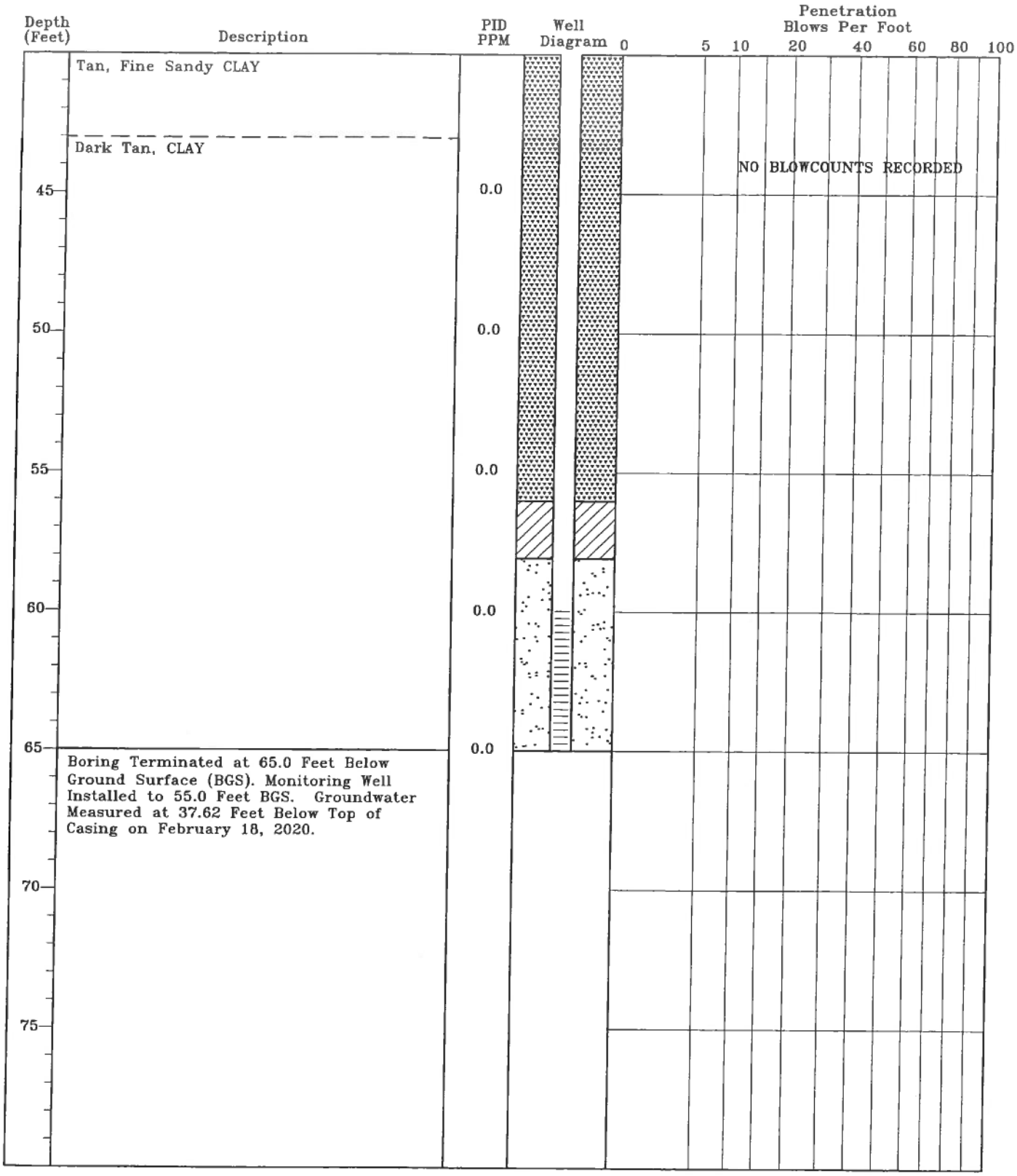
Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID* 14324
MECI Project Number 19-6823

Boring Number:	14324-DW03
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



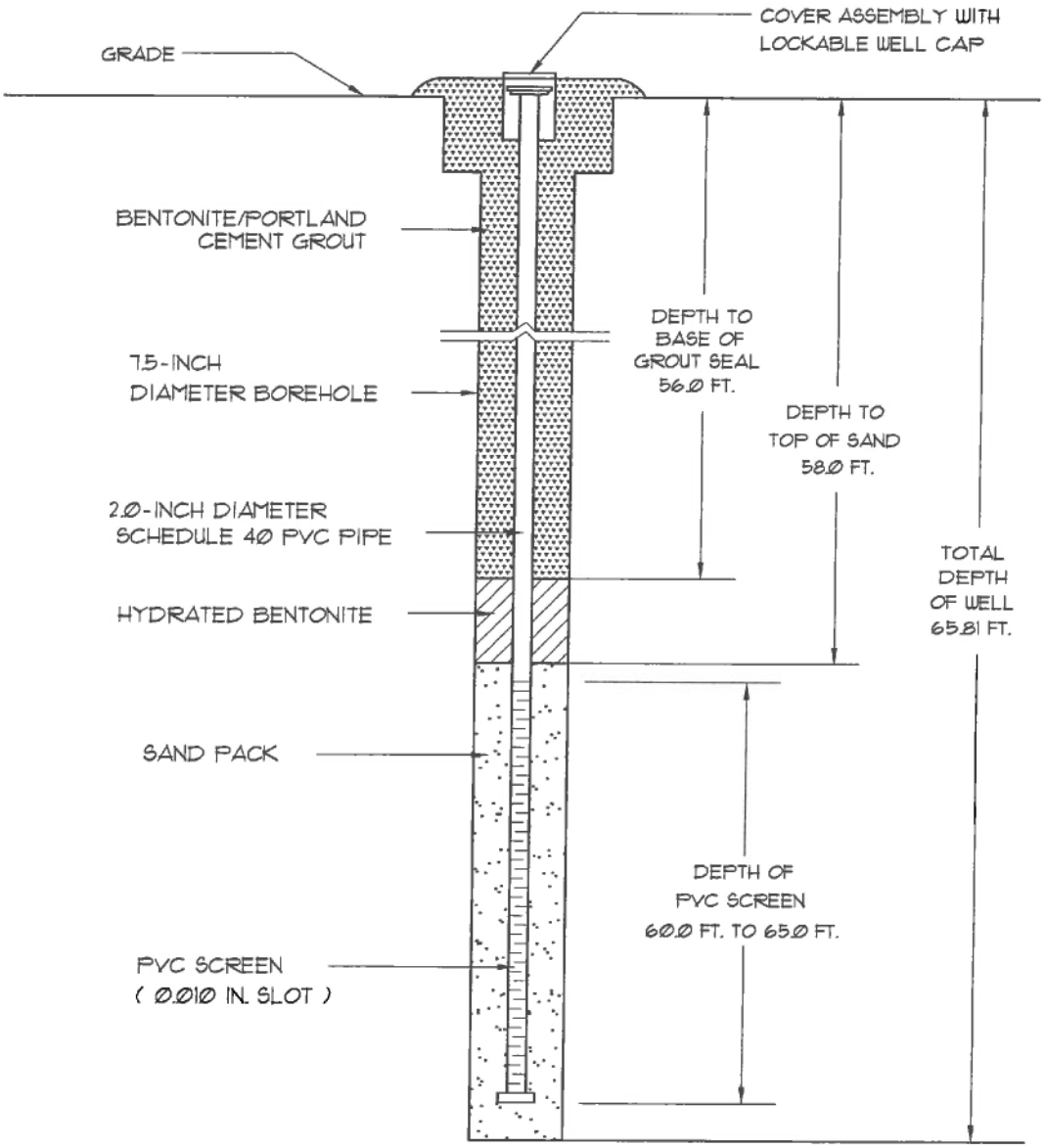
TEST BORING RECORD
Unknown UST 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823

Boring Number:	14324-DW03
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

MONITORING WELL INSTALLATION RECORD

UST Unknown 14324
Seneca, South Carolina
SCDHEC Site ID# 14324
MECI Project Number 19-6823



Well Number:	14324-DW03
Date Drilled:	2/13/2020
Drilled By:	EDPS, LLC.
Driller: T. Bolyard	S.C. I.D.#: B01846
Logged By:	J. Floyd

Prepared By:
Midlands Environmental Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Oconee
Name: UST-UNKNOWN 14324
Street Address: 519 E. North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW21R

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE GEOLOGIST LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW21R
*Bentonite seal from 20.0' to 18.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UMW-27402

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 32.0 ft. Date Started: 2/13/2020 Date Completed: 2/13/2020

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 Inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 22.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 22.0 ft. and 32.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 25.56 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 32.0 ft. to 20.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 18.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard CERT. NO.: 01846
Address: (Print) Level: A (B) C D (circle one)
17538 Greenhill Road
Charlotte, NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 3/6/2020

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

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Oconee
Name: UST-UNKNOWN 14324
Street Address: 519 E. North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW27

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE GEOLOGIST LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW27
*Bentonite seal from 28.0' to 26.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UMW-27402

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 2/13/2020 Date Completed: 2/13/2020

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 Inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 30.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 30.0 ft. and 40.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 31.22 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 40.0 ft. to 28.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 26.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard CERT. NO.: 01846
Address: (Print) Level: A (B) C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ Well Driller Date: 3/6/2020

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: UST-UNKNOWN 14324
Street Address: 519 E. North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW28

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE GEOLOGIST LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW28
*Bentonite seal from 30.0' to 28.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UMW-27402

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 42.0 ft. Date Started: 2/13/2020 Date Completed: 2/13/2020

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 Inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 32.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 32.0 ft. and 42.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 35.24 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 42.0 ft. to 30.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 28.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) **Level:** A (B) C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ Well Driller Date: 3/6/2020

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

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Oconee
Name: UST-UNKNOWN 14324
Street Address: 519 E. North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** MW29

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE GEOLOGIST LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW29
*Bentonite seal from 33.0' to 31.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UMW-27402

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 45.0 ft. Date Started: 2/13/2020 Date Completed: 2/13/2020

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 Inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 35.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 10.0
Set Between: 35.0 ft. and 45.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 37.42 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 45.0 ft. to 33.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 31.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard CERT. NO.: 01846
Address: (Print) Level: A (B) C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ Date: 3/6/2020
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: UST-UNKNOWN 14324
Street Address: 519 E. North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** DW02

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE GEOLOGIST LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
DW02
*Bentonite seal from 58.0' to 56.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UMW-27402

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 65.0 ft. Date Started: 2/13/2020 Date Completed: 2/13/2020

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 Inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 60.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 5.0
Set Between: 60.0 ft. and 65.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 37.62 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 65.0 ft. to 58.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 56.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A (B) C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 3/6/2020

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

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Oconee
Name: UST-UNKNOWN 14324
Street Address: 519 E. North First Street
City: Seneca Zip: 29678-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 14324 **PUBLIC SYSTEM NUMBER:** DW03

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE GEOLOGIST LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
DW03
*Bentonite seal from 58.0' to 56.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other -Auger

7. PERMIT NUMBER: UMW-27402

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 65.0 ft. Date Started: 2/13/2020 Date Completed: 2/13/2020

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 Inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 60.0 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Schedule 40 PVC Diam.: 2 Inch
Slot/Gauge: 0.010 Length: 5.0
Set Between: 60.0 ft. and 65.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 37.62 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 ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 65.0 ft. to 58.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 56.0 ft. to 0.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
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: Tommy Bolyard **CERT. NO.:** 01846
Address: (Print) Level: A (B) C D (circle one)
17538 Greenhill Road
Charlotte. NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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: _____ (Well Driller) Date: 3/6/2020

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: **UST UNKNOWN 14324** Site ID#: **14324** **Date: 2/18/2020**

Drilling Company: EDPS, LLC Driller: Tommy Bolyard

Field Personnel: Tommy Bolyard/ R. Grosslight Driller Certification Number: B 01846

Weather Conditions: Rainy Temp. (°F): 55

Well Development Method

Surge Block: ___ Submersible Pump: X Air Lifting: ___

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:
Serial no. 15E101481
pH=4.0 X
pH-7.0 X
pH-10.0 X

Conductivity Meter:
Serial no. 15E101481
Standard X

Temperature Meter:
Serial no. 14H103098

Turbiditiy Meter:
Serial No. 201301174
NTU 0.0 X
NTU 1.0 X
NTU10.0 X

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: ___ Direct Push: ___

Air Rotary: ___ Mud Rotary: ___ Sonic: ___

Monitoring Well ID#: **MW-21R** Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5

Depth to Ground Water (DGW): 25.56 ft. Screen Length (ft): 10 Slot Size (in): 0.010

Total Well Depth (TWD): 32.11 ft. Screen Interval: 22.0 ft. to 32.0 ft.

Length of Water Column (TWD-DGW): 6.55 ft. Type of Drilling Fluid Used: N/A

Total Gallons of Water Removed: 25.00 gals. Drilling Fluids Recovered: N/A

Time:	14:45	14:50	14:55	15:00	15:05			
pH(s.u)*:	5.16	4.90	4.79	4.72	4.66			
Specific Conductivity (mmhos/cm):	40.6	44.1	47.9	50.2	49.8			
Water Temperature (°C)*:	17.3	17.6	17.8	17.9	18.0			
Turbidity (NTU)*:	211.4	161.3	71.25	31.66	9.89			
Physical Characteristics (color/odor):	Red, Brown/ Odor	Red, Brown/ Odor	Light Brown/ Odor	Clear/ Odor	Clear/ Odor			
Depth to Water (ft from TOC):	27.18	29.41	30.29	30.16	28.42			
Cumulative Gallons Removed:	5.00	10.00	15.00	20.00	25.00			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 25.0 gallons were removed.

Driller Signature: Tommy Bolyard Date: 3/5/2020

Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: **UST UNKNOWN 14324** Site ID#: **14324** **Date: 2/18/2020**

Drilling Company: EDPS, LLC Driller: Tommy Bolyard

Field Personnel: Tommy Bolyard/ R. Grosslight Driller Certification Number: B 01846

Weather Conditions: Rainy Temp. (°F): 55

Well Development Method

Surge Block: ___ Submersible Pump: X Air Lifting: ___

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:
Serial no. 15E101481
pH=4.0 X
pH-7.0 X
pH-10.0 X

Conductivity Meter:
Serial no. 15E101481
Standard X

Temperature Meter:
Serial no. 14H103098

Turbiditiy Meter:
Serial No. 201301174
NTU 0.0 X
NTU 1.0 X
NTU10.0 X

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: ___ Direct Push: ___

Air Rotary: ___ Mud Rotary: ___ Sonic: ___

Monitoring Well ID#: **MW-27** Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5

Depth to Ground Water (DGW): 31.22 ft. Screen Length (ft): 10 Slot Size (in): 0.010

Total Well Depth (TWD): 40.98 ft. Screen Interval: 30.0 ft. to 40.0 ft.

Length of Water Column (TWD-DGW): 9.76 ft. Type of Drilling Fluid Used: N/A

Total Gallons of Water Removed: 25.00 gals. Drilling Fluids Recovered: N/A

Time:	15:35	15:40	15:45	15:50	15:55			
pH(s.u)*:	4.54	4.69	4.73	4.79	4.81			
Specific Conductivity (mmhos/cm):	51.3	44.4	41.2	39.8	40.4			
Water Temperature (°C)*:	20.0	20.0	20.0	20.1	20.2			
Turbidity (NTU)*:	241.7	141.9	81.34	31.42	9.16			
Physical Characteristics (color/odor):	Light Brown/ Slight Odor	Light Brown/ Slight Odor	Light Brown/ Slight Odor	Clear/ Slight Odor	Clear/ Slight Odor			
Depth to Water (ft from TOC):	33.41	34.09	34.61	35.12	34.98			
Cumulative Gallons Removed:	5.00	10.00	15.00	20.00	25.00			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 25.0 gallons were removed.

Driller Signature: Tommy Bolyard Date: 3/5/2020

Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: **UST UNKNOWN 14324** Site ID#: **14324** **Date: 2/18/2020**

Drilling Company: EDPS, LLC Driller: Tommy Bolyard

Field Personnel: Tommy Bolyard/ R. Grosslight Driller Certification Number: B 01846

Weather Conditions: Rainy Temp. (°F): 55

Well Development Method

Surge Block: ___ Submersible Pump: X Air Lifting: ___

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:
Serial no. 15E101481
pH=4.0 X
pH-7.0 X
pH-10.0 X

Conductivity Meter:
Serial no. 15E101481
Standard X

Temperature Meter:
Serial no. 14H103098

Turbiditiy Meter:
Serial No. 201301174
NTU 0.0 X
NTU 1.0 X
NTU10.0 X

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: ___ Direct Push: ___

Air Rotary: ___ Mud Rotary: ___ Sonic: ___

Monitoring Well ID#: **MW-28** Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5

Depth to Ground Water (DGW): 35.24 ft. Screen Length (ft): 10 Slot Size (in): 0.010

Total Well Depth (TWD): 42.51 ft. Screen Interval: 32.0 ft. to 42.0 ft.

Length of Water Column (TWD-DGW): 7.27 ft. Type of Drilling Fluid Used: N/A

Total Gallons of Water Removed: 25.00 gals. Drilling Fluids Recovered: N/A

Time:	15:10	15:15	15:20	15:25	15:30			
pH(s.u)*:	5.15	4.86	4.72	4.64	4.69			
Specific Conductivity (mmhos/cm):	30.5	32.8	35.2	38.1	39.4			
Water Temperature (°C)*:	19.4	19.7	19.9	20.1	20.1			
Turbidity (NTU)*:	212.4	141.9	71.24	29.42	9.42			
Physical Characteristics (color/odor):	Red, Brown/ No Odor	Red, Brown/ No Odor	Light Brown/ No Odor	Clear/ No Odor	Clear/ No Odor			
Depth to Water (ft from TOC):	36.42	37.18	39.12	38.41	38.11			
Cumulative Gallons Removed:	5.00	10.00	15.00	20.00	25.00			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 25.0 gallons were removed.

Driller Signature: Tommy Bolyard Date: 3/5/2020

Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: **UST UNKNOWN 14324** Site ID#: **14324** **Date: 2/18/2020**

Drilling Company: EDPS, LLC Driller: Tommy Bolyard

Field Personnel: Tommy Bolyard/ R. Grosslight Driller Certification Number: B 01846

Weather Conditions: Rainy **Temp. (°F):** 55

Well Development Method

Surge Block: ___ Submersible Pump: X Air Lifting: ___

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:
Serial no. 15E101481
pH=4.0 X
pH-7.0 X
pH-10.0 X

Conductivity Meter:
Serial no. 15E101481
Standard X

Temperature Meter:
Serial no. 14H103098

Turbiditiy Meter:
Serial No. 201301174
NTU 0.0 X
NTU 1.0 X
NTU10.0 X

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: ___ Direct Push: ___

Air Rotary: ___ Mud Rotary: ___ Sonic: ___

Monitoring Well ID#: **MW-29** Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5

Depth to Ground Water (DGW): 37.42 ft. Screen Length (ft): 10 Slot Size (in): 0.010

Total Well Depth (TWD): 46.28 ft. Screen Interval: 35.0 ft. to 45.0 ft.

Length of Water Column (TWD-DGW): 8.86 ft. Type of Drilling Fluid Used: N/A

Total Gallons of Water Removed: 25.00 gals. Drilling Fluids Recovered: N/A

Time:	13:30	13:35	13:40	13:45	13:50			
pH(s.u)*:	6.48	5.14	4.64	4.52	4.54			
Specific Conductivity (mmhos/cm):	46.4	46.1	41.6	40.9	41.2			
Water Temperature (°C)*:	16.7	16.5	16.9	16.8	16.9			
Turbidity (NTU)*:	274.3	164.2	89.31	21.63	9.43			
Physical Characteristics (color/odor):	Red, Brown/ Slight Odor	Red, Brown/ Slight Odor	Light Brown/ Slight Odor	Clear/ Slight Odor	Clear/ Slight Odor			
Depth to Water (ft from TOC):	39.14	40.26	41.18	40.31	42.67			
Cumulative Gallons Removed:	5.00	10.00	15.00	20.00	25.00			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 25.0 gallons were removed.

Driller Signature: Tommy Bolyard Date: 3/5/2020

Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: **UST UNKNOWN 14324** Site ID#: **14324** **Date: 2/18/2020**

Drilling Company: EDPS, LLC Driller: Tommy Bolyard

Field Personnel: Tommy Bolyard/ R. Grosslight Driller Certification Number: B 01846

Weather Conditions: Rainy **Temp. (°F):** 55

Well Development Method

Surge Block: ___ Submersible Pump: X Air Lifting: ___

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:		Conductivity Meter:		Temperature Meter:	Turbiditiy Meter:	
Serial no.	15E101481	Serial no.	15E101481	Serial no. 14H103098	Serial No.	201301174
pH=4.0	X	Standard	X		NTU 0.0	X
pH-7.0	X				NTU 1.0	X
pH-10.0	X				NTU10.0	X

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: ___ Direct Push: ___

Air Rotary: ___ Mud Rotary: ___ Sonic: ___

Monitoring Well ID#: **DW-2** Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5

Depth to Ground Water (DGW): 37.62 ft. Screen Length (ft): 5 Slot Size (in): 0.010

Total Well Depth (TWD): 65.13 ft. Screen Interval: 60.0 ft. to 65.0 ft.

Length of Water Column (TWD-DGW): 27.51 ft. Type of Drilling Fluid Used: N/A

Total Gallons of Water Removed: 25.00 gals. Drilling Fluids Recovered: N/A

Time:	13:55	14:00	14:05	14:10	14:15			
pH(s.u)*:	4.74	4.77	4.78	4.82	4.84			
Specific Conductivity (mmhos/cm):	44.5	50.2	46.2	42.9	40.6			
Water Temperature (°C)*:	16.8	16.9	17.1	17.2	17.3			
Turbidity (NTU)*:	174.3	102.9	67.42	26.13	9.11			
Physical Characteristics (color/odor):	Red, Brown/ No Odor	Red, Brown/ No Odor	Light Brown/ No Odor	Clear/ No Odor	Clear/ No Odor			
Depth to Water (ft from TOC):	47.94	51.16	53.42	52.18	54.61			
Cumulative Gallons Removed:	5.00	10.00	15.00	20.00	25.00			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 25.0 gallons were removed.

Driller Signature: Tommy Bolyard Date: 3/5/2020

Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: **UST UNKNOWN 14324** Site ID#: **14324** **Date: 2/18/2020**

Drilling Company: EDPS, LLC Driller: Tommy Bolyard

Field Personnel: Tommy Bolyard/ R. Grosslight Driller Certification Number: B 01846

Weather Conditions: Rainy **Temp. (°F):** 55

Well Development Method

Surge Block: ___ Submersible Pump: X Air Lifting: ___

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:
Serial no. 15E101481
pH=4.0 X
pH-7.0 X
pH-10.0 X

Conductivity Meter:
Serial no. 15E101481
Standard X

Temperature Meter:
Serial no. 14H103098

Turbiditiy Meter:
Serial No. 201301174
NTU 0.0 X
NTU 1.0 X
NTU10.0 X

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: ___ Direct Push: ___

Air Rotary: ___ Mud Rotary: ___ Sonic: ___

Monitoring Well ID#: **DW-3** Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5

Depth to Ground Water (DGW): 37.62 ft. Screen Length (ft): 5 Slot Size (in): 0.010

Total Well Depth (TWD): 65.81 ft. Screen Interval: 60.0 ft. to 65.0 ft.

Length of Water Column (TWD-DGW): 28.19 ft. Type of Drilling Fluid Used: N/A

Total Gallons of Water Removed: 25.00 gals. Drilling Fluids Recovered: N/A

Time:	14:20	14:25	14:30	14:35	14:40			
pH(s.u)*:	5.18	4.93	4.73	4.69	4.67			
Specific Conductivity (mmhos/cm):	41.5	40.4	39.8	32.9	38.1			
Water Temperature (°C)*:	16.4	16.6	16.8	16.9	16.9			
Turbidity (NTU)*:	241.3	114.9	51.31	20.16	9.42			
Physical Characteristics (color/odor):	Red, Brown/ No Odor	Red, Brown/ No Odor	Light Brown/ No Odor	Clear/ No Odor	Clear/ No Odor			
Depth to Water (ft from TOC):	39.64	43.24	45.41	48.94	50.23			
Cumulative Gallons Removed:	5.00	10.00	15.00	20.00	25.00			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 25.0 gallons were removed.

Driller Signature: Tommy Bolyard Date: 3/5/2020

APPENDIX F:

AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

(Not Applicable)

APPENDIX G:

DISPOSAL MANIFEST

Midlands Environmental Consultants, Inc.

March 6, 2020

Re: Treatment of Purge Water
Unknown UST# 14324
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 19-6823

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 150.0 gallons were treated on February 18, 2020, at the referenced site.

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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.

Kyle X. Jacobs
Staff Hydrogeologist

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Reprint
Ticket# 1729297

Customer Name MIDLANDSENVIRON MIDLANDS ENVI
Ticket Date 02/21/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile VA2718 (SOIL FROM UST ASSESSMENT)
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT
Vehicle# 2
Container
Driver
Check#
Billing # 0000469
Gen EPA ID

Volume

	Time	Scale	ScaleMaster
In	02/21/2020 10:55:39	Inbound #1	Dwayne
Out	02/21/2020 11:24:15	Outbound	kenny1

Comments

Gross	16780	lb
Tare	9120	lb
Net	7660	lb
Tons	3.83	

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	3.83	Tons				32-LEXINGT
2	FUEL-Fuel Surcharg	100		%				32-LEXINGT
3	EVF-P-Standard Env	100		%				32-LEXINGT
4	RCR-P-Regulatory C	100		%				32-LEXINGT

Total Fees
Total Ticket

Driver`s Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	2

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
MIDLAND ENVIRONMENTAL CONSULTANTS 231 DOOLEY RD LEXINGTON, SC 29073 4. Generator's Phone 803-808-2043 X2	Pitt stop 31 4379 Angusta Rd. Lexington SC, UST: 16604 60%	B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address **OAKRIDGE LANDFILL, INC.** **2183 HIGHWAY 78** **DORCHESTER, SC 29437**	10. US EPA ID Number	G. State Facility ID 182400-1101 H. State Facility Phone **843-563-4587**

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a NON-HAZ GAS AND DIESEL CONTAMINTED SOIL WM Profile # **VA2718**					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
UST unknown 519 E. N. 1st Street, Seneca, SC UST: 14324 40%	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
ORANGEBURG COUNTY

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Kyle Jacobs	Kyle Jacobs	2	21	20

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kyle Jacobs	Kyle Jacobs	2	21	20

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Dwayne Moody	Dwayne Moody	2	21	20

APPENDIX H:

LOCAL ZONING REGULATIONS

(Not Applicable)

APPENDIX I:

FATE AND TRANSPORT MODELING

(Not Applicable)

APPENDIX J:

ACCESS AGREEMENTS

(Not Applicable)

APPENDIX K:

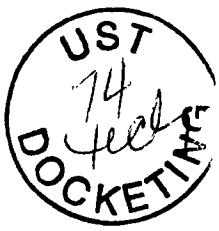
DATA VERIFICATION CHECKLIST

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? (Appendix E)			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 B)			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? (Table 1)			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? (Tables 3)			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			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 4)			X
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			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? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			X
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			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 K)	X		

dhec
Healthy People. Healthy Communities.



BETTY LATHEM – TRUSTEE
2 STRATTON PL
GREENVILLE SC 29615-4217

MAR 26 2020

Re: **Site-Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
UST – Unknown 14324, 519 E 1st St, Seneca, SC
UST Permit #14324; CA #61371
Release #1 reported December 30, 1991
Site Specific Work Plan received February 25, 2020
Oconee County

Dear Trustee:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at https://www.scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- Line 10 H1 – 1 additional FB has been added to the cost agreement.
- Line 11 A2 – 1 8260B analysis has been added to the cost agreement.
- Line 11 F1 – 1 8011 analysis has been added to the cost agreement.

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, these additional tasks, and the associated cost, must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. 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 #14324. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0610, by fax at (803) 898-0673, or by e-mail at westbrcj@dhec.sc.gov.

Sincerely,

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

enc: Approved Cost Agreement

cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 61371

Facility: 14324 UST - UNKNOWN 14324
WESTBRCJ
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	3.0000	$423.000	1,269.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	30.0000	$60.000	1,800.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	3.0000	$28.000	84.00
		H1	FIELD BLANK	2.0000	$24.600	49.20
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	37.0000	$122.000	4,514.00
		F1	EDB BY 8011	35.0000	$45.200	1,582.00
17 DISPOSAL						
		AA	WASTEWATER	300.0000	$0.560	168.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$9,616.200	1,153.94
				Total Amount		10,770.14

Document Receipt Information

☒ Hard Copy ■ CD ☐ Email

Date Received 6-22-20

Permit Number 14324

Project Manager Conner Westbrook

Name of Contractor MECF

UST Certification Number _____

Docket Number 764ech

Scanned _____

EWS / Chemical Analysis

REPORT OF GROUNDWATER SAMPLING AND CHEMICAL ANALYSIS

Former Red Diamond (Unknown UST 14324)
519 East North 1st Street
Seneca, South Carolina
SCDHEC SITE ID 14324
CA # 61371

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

April 23, 2020

MECI Project No. 20-7241

Midlands Environmental Consultants, Inc.

April 23, 2020

Mr. Connor Westbrook, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling and Chemical Analysis
Former Red Diamond (Unknown UST 14324)
519 East North 1st Street
Seneca, South Carolina
SCDHEC Site ID# 14324, CA# 61371
MECI Project Number 20-7241
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Westbrook,

On behalf of Ms. Betty Lathem (Trustee), Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling and Chemical Analyses for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

A. **Owner/Operator Information**

Facility Name:	Unknown UST 14324 UST Permit #: 14324
Facility Address:	519 East North 1st Street, Seneca, SC 29678
Name:	Ms. Betty Lathem
Address:	2 Stratton Place, Greenville, SC 29615-4217
Telephone #:	(864) 288-6480

B. **Property Owner Information**

Name	Gary Alexander
Tax Map #:	Oconee County Tax Map#: 520-30-02-015
Address	414 Edgewater Drive, Westminster, SC 29693
Telephone #	(864) 719-0477

C. **Contractor Information**

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

D. **SCDHEC Certified Well Driller**

Name:	N/A
Driller:	N/A
Certification #:	N/A
Address:	N/A
Telephone #:	N/A

E. **SCDHEC Certified Laboratory**

Name:	Pace Analytical Services, Inc.
Certification #:	99006001
Address:	9800 Kincey Avenue, Suite 100, Huntersville, NC 28078
Telephone #:	(704) 875-9092

1.1 PROJECT INFORMATION

The subject site (Former Red Diamond/UST Unknown 14324) is located at 519 East North 1st Street in Seneca, Oconee County, South Carolina (See Figure 1). The site is currently a vacant lot. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
2	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
3	500 Gal. Kerosene	Abandoned	Removed (12/19/1991)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in December of 1991. This release was subsequently confirmed in March of 1992 and has been ranked a class 3BA due to free phase petroleum product historically being detected in onsite monitoring wells at a thickness greater than 0.01' foot.

The above information is based on reports and correspondence obtained from MECI files and SCDHEC files.

2.0 SURROUNDING PROPERTY USAGE

The subject site is currently a vacant lot located within the town limits of Seneca, Oconee County, South Carolina. East North 1st Street forms the southern property boundary, beyond which are commercial properties to include a former gasoline service station (Earl's Upholstery). East of the site is a vacant commercial lot, beyond which is Oconee Welding Supply and additional commercial properties. West of the site is bordered by a dry cleaning facility (Tri-City Cleaners/BLWM# 56039), beyond which are commercial properties. North of the site is an open grass lot and wooded areas, beyond which are residential properties.

Historically documented potential receptors include one surface water. Underground utilities previously identified include water lines, gas lines, and septic lines. The utilities area buried approximately 3-5 feet below ground surface (BGS). The following matrix contains receptor status, owner(s), and tax map identification numbers:

Receptor ID#	Receptor Owner	Oconee County Tax Map Number:	Receptor Address Receptor Details
SW-1	Wayne & Brenda Frady 430 East North Fifth Street Seneca, SC 29678	520-24-04-022	SW-1 was collected from a creek located approximately 900' feet north of the site. This creek is an unnamed tributary associated with the Cane Creek. GPS Coordinates for this surface water collection area are: 34.6896742, -82.9473825

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property, as depicted on the local USGS quadrangle (Seneca, South Carolina), appears to be approximately 960 feet above sea level. The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Oconee County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial aquifer. After the water has reached the surficial aquifer, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank

pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

3.1 LOCAL SUBSURFACE CONDITIONS

Piedmont Residual soils were encountered during drilling activities conducted at the site. The soils encountered in our borings generally consisted of medium to coarse grained sandy clays near surface which were underlain by clayey medium to coarse grained sands.

On April 23, 2020 stabilized groundwater levels were measured in the wells. Depth to groundwater ranged from 21.32 to 36.38 feet from the top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on the hydraulic gradient) of groundwater flow from the release is to the northeast, toward drainage features associated with the Cane Creek.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- comprehensive sampling of the entire well network and nearby receptor; and,
- chemical analyses of groundwater samples.

4.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On April 7, 2020, MECI personnel collected groundwater samples from twenty-nine (29) monitoring wells and one (1) surface water at the subject site. It should be noted that monitoring wells MW-3, MW-8 and MW-19 appear to have previously been abandoned. Additionally, monitoring well MW-21 was unable to be located during sampling activities. At the request of SCDHEC, all monitoring wells were to be purged prior to sample collection. Twenty-nine (29) monitoring wells were purged prior to sampling.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of

Standard Operating Procedures. Groundwater samples obtained were sent to Pace Analytical of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3					X								
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-8					X								
MW-12	X						X	X	X	X			
MW-13	X						X	X	X	X			
MW-19					X								
MW-19R	X						X	X	X	X			
MW-20	X						X	X	X	X			
MW-21						X							
MW-21R	X						X	X	X	X			
MW-22	X						X	X	X	X			
MW-23	X						X	X	X	X			
MW-24	X						X	X	X	X			
MW-25	X						X	X	X	X			
MW-26	X						X	X	X	X			
MW-27	X						X	X	X	X			
MW-28	X						X	X	X	X			
MW-29	X						X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
RW-1	X						X	X	X	X			
RW-2	X						X	X	X	X			
RW-3	X						X	X	X	X			
RW-4	X						X	X	X	X			
RW-5	X						X	X	X	X			
EP-4	X						X	X	X	X			
EP-12	X						X	X	X	X			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dicloroethane
EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
EP-16	X						X	X	X	X			
EP-20	X						X	X	X	X			
SW-1		X					X	X	X	X			
DUP-1(MW-13)		X					X	X	X	X			
DUP-2(MW-2)		X					X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dicloroethane
EDB = Ethylene Dibromide

The results of the laboratory analyses are summarized in Table 3 and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 375.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

5.1 GROUNDWATER ANALYTICAL RESULTS

As discussed in Section 4.1, groundwater samples obtained from the monitoring wells during the April 7, 2020 comprehensive groundwater sampling event were analyzed for dissolved phase petroleum constituents. Free phase petroleum product not encountered in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to both the "shallow" zone and "deep" zone of the surficial aquifer, with the highest dissolved concentrations being detected in the area of RW-4 and RW-5. Of the thirty locations sampled, twenty-four wells (MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, DW-3, RW-1, RW-2, RW-3, RW-4, RW-5, EP-4, EP-12, EP-16, and EP-20) detected petroleum constituents above Risk-Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

Compound	*RBSL (ug/l)*	*Wells Above RBSL*
Product	>0.01	N/A
Benzene	5	MW-2, MW-4, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, DW-3, RW-1, RW-3, RW-4, RW-5, EP-4, EP-12, EP-16 & EP-20
Toluene	1,000	MW-2, MW-4, MW-5, MW-12, MW-13, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, RW-1, RW-3, RW-4, RW-5, EP-12, EP-16 & EP-20
Ethylbenzene	700	MW-2, MW-26, MW-29, DW-2, RW-1, RW-3, RW-4 & RW-5
Total Xylenes	10,000	MW-2, MW-26, RW-1, RW-3, RW-4, RW-5 & EP-20
Naphthalene	25	MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, RW-1, RW-2, RW-3, RW-4, RW-5, EP-4, EP-12, EP-16 & EP-20
MTBE	40	N/A
1,2 DCA	5	MW-24 & DW-3
EDB	0.05	MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-26, DW-1, DW-2, RW-1, RW-3, RW-4, RW-5, EP-12, EP-16 & EP-20
Lead	15	Not Requested for Analysis
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	MW-24
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results also detected petroleum constituents above the laboratory method detection limits and/or "J" values in monitoring wells MW-21R and MW-25; however, the concentrations detected did not exceed the RBSL. In addition, analytical results from samples obtained from the nearby surface water feature did not indicate petroleum impact.

The results of the analyses for each monitoring well and specific parameters are listed on Table 3 and provided in Appendix B.

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS

Based on the results of our sampling activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The highest concentrations of dissolved phase contaminants appear to be located in the vicinity of former UST system. The contaminants appear to be gasoline range constituents. Impacted groundwater appears to be moving in a northeasterly direction towards the and unnamed tributary of the Cane Creek.

Free phase petroleum product not encountered in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to both the "shallow" zone and "deep" zone of the surficial aquifer, with the highest dissolved concentrations being detected in the area of RW-4 and RW-5. Of the thirty locations sampled, twenty-four wells (MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, DW-3, RW-1, RW-2, RW-3, RW-4, RW-5, EP-4, EP-12, EP-16, and EP-20) detected petroleum constituents above Risk-Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

Compound	*RBSL (ug/l)*	*Wells Above RBSL*
Product	>0.01	N/A
Benzene	5	MW-2, MW-4, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, DW-3, RW-1, RW-3, RW-4, RW-5, EP-4, EP-12, EP-16 & EP-20
Toluene	1,000	MW-2, MW-4, MW-5, MW-12, MW-13, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, RW-1, RW-3, RW-4, RW-5, EP-12, EP-16 & EP-20
Ethylbenzene	700	MW-2, MW-26, MW-29, DW-2, RW-1, RW-3, RW-4 & RW-5
Total Xylenes	10,000	MW-2, MW-26, RW-1, RW-3, RW-4, RW-5 & EP-20
Naphthalene	25	MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, MW-26, MW-29, DW-1, DW-2, RW-1, RW-2, RW-3, RW-4, RW-5, EP-4, EP-12, EP-16 & EP-20
MTBE	40	N/A
1,2 DCA	5	MW-24 & DW-3
EDB	0.05	MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-26, DW-1, DW-2, RW-1, RW-3, RW-4, RW-5, EP-12, EP-16 & EP-20
Lead	15	Not Requested for Analysis
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	MW-24
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results also detected petroleum constituents above the laboratory method detection limits and/or "J" values in monitoring wells MW-21R and MW-25; however, the concentrations detected did not exceed the RBSL. In addition, analytical results from samples obtained from the nearby surface water feature did not indicate petroleum impact.

The results of the analyses for each monitoring well and specific parameters are listed on Table 3 and provided in Appendix B.

Based on current analytical results, the contaminant plume emanating from the subject site is not defined horizontally or vertically. MECI recommends a Tier II Assessment be conducted to define the release of petroleum product horizontally and vertically. The Tier II Assessment should include field screening of groundwater sampling, installation of additional monitoring wells, aquifer slug test and sampling and chemical analyses of water samples to ensure plume is properly defined.

7.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of the Ms. Betty Latham, SCDHEC, and MECI under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

TABLES

TABLE 2
POTENTIOMETRIC DATA
APRIL 7, 2020 SAMPLING EVENT
FORMER RED DIAMOND (UNKNOWN UST #14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7241
SCDHEC SITE ID NUMBER 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-1	8/10/2013	25-40	---	26.50	---	98.32	71.82
	11/6/2013		---	26.77	---		71.55
	3/12/2015		---	27.31	---		71.01
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	4/7/2020		---	23.49	---		74.83
MW-2	8/10/2013	30-40	---	29.00	---	98.60	69.60
	11/6/2013		---	28.20	---		70.40
	3/12/2015		---	29.46	---		69.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	31.01	---		67.59
	4/7/2020		---	26.22	---		72.38
MW-3	8/10/2013	30-40	---	27.80	---	97.92	70.12
	11/6/2013		---	27.12	---		70.80
	3/12/2015		---	28.07	---		69.85
	6/24/2015		---	NM	---		NM
	5/30/2018		---	ABANDONED	---		ABANDONED
	4/7/2020		---	ABANDONED	---		ABANDONED
MW-4	8/10/2013	30-40	---	28.34	---	99.07	70.73
	11/6/2013		---	NS	---		NS
	3/12/2015		---	28.81	---		70.26
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	4/7/2020		---	24.96	---		74.11
MW-5	8/10/2013	60-65	---	27.26	---	98.03	70.77
	11/6/2013		---	26.78	---		71.25
	3/12/2015		---	27.89	---		70.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	29.29	---		68.74
	4/7/2020		---	24.10	---		73.93
MW-8	8/10/2013	N/A	---	37.08	---	N/A	N/A
	11/6/2013		---	36.44	---		N/A
	3/12/2015		---	ABANDONED	---		ABANDONED
	4/7/2020		---	ABANDONED	---		ABANDONED
MW-12	8/10/2013	60-65	---	32.22	---	99.12	66.90
	11/6/2013		---	31.10	---		68.02
	3/12/2015		---	32.55	---		66.57
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.75	---		64.37
	4/7/2020		---	29.03	---		70.09
MW-13	8/10/2013	36-46	---	32.03	---	99.41	67.38
	11/6/2013		---	31.45	---		67.96
	3/12/2015		---	34.15	---		65.26
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.41	---		65.00
	4/7/2020		---	29.55	---		69.86
MW-19	8/10/2013	35-45	---	33.20	---	99.58	66.38
	11/6/2013		---	31.73	---		67.85
	3/12/2015		---	OBSTRUCTION	---		OBSTRUCTION
	6/24/2015		---	ABANDONED	---		ABANDONED
	4/7/2020		---	ABANDONED	---		ABANDONED
MW-19R	6/24/2015	30-40	---	34.08	---	99.09	65.01
	5/30/2018		---	34.80	---		64.29
	4/7/2020		---	29.78	---		69.31
MW-20	6/24/2015	30-40	---	33.92	---	98.30	64.38
	5/30/2018		---	32.30	---		66.00
	4/7/2020		---	27.30	---		71.00
MW-21	6/24/2015	30-40	---	30.96	---	95.58	64.62
	5/30/2018		---	NL	---		NL
	4/7/2020		---	NL	---		NL
MW-21R	4/7/2020	22-32	---	28.52	---	96.39	67.87

TABLE 2
POTENTIOMETRIC DATA
APRIL 7, 2020 SAMPLING EVENT
FORMER RED DIAMOND (UNKNOWN UST #14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7241
SCDHEC SITE ID NUMBER 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-22	6/24/2015	30-40	---	33.10	---	99.03	65.93
	5/30/2018		---	31.43	---		67.60
	4/7/2020		---	26.22	---		72.81
MW-23	6/24/2015	30-40	---	35.71	---	104.14	68.43
	5/30/2018		---	DRY	---		DRY
	4/7/2020		---	36.39	---		67.75
MW-24	6/24/2015	30-40	---	33.30	---	100.19	66.89
	5/30/2018		---	31.90	---		68.29
	4/7/2020		---	26.62	---		73.57
MW-25	6/24/2015	30-40	---	31.57	---	95.40	63.83
	5/30/2018		---	26.48	---		68.92
	4/7/2020		---	21.32	---		74.08
MW-26	6/24/2015	30-40	---	32.86	---	98.46	65.60
	5/30/2018		29.42	29.52	0.10		69.03
	4/7/2020		---	24.16	---		74.30
MW-27	4/7/2020	30-40	---	29.66	---	99.65	69.99
MW-28	4/7/2020	32-42	---	33.43	---	102.37	68.94
MW-29	4/7/2020	35-45	---	36.14	---	104.58	68.44
DW-1	6/24/2015	60-65	---	32.67	---	98.63	65.96
	5/30/2018		---	34.19	---		64.44
	4/7/2020		---	29.29	---		69.34
DW-2	4/7/2020	60-65	---	35.85	---	104.40	68.55
DW-3	4/7/2020	60-65	---	36.15	---	104.46	68.31
RW-1	6/24/2015	20-40	---	31.94	---	98.64	66.70
	5/30/2018		---	NL	---		NL
	4/7/2020		---	24.28	---		74.36
RW-2	6/24/2015	20-40	---	32.06	---	98.74	66.68
	5/30/2018		---	29.45	---		69.29
	4/7/2020		---	24.21	---		74.53
RW-3	6/24/2015	20-40	---	31.86	---	98.73	66.87
	5/30/2018		---	29.39	---		69.34
	4/7/2020		---	24.20	---		74.53
RW-4	6/24/2015	20-40	---	31.62	---	99.31	67.69
	5/30/2018		---	30.60	---		68.71
	4/7/2020		---	25.10	---		74.21
RW-5	6/24/2015	20-40	---	31.43	---	99.52	68.09
	5/30/2018		---	30.90	---		68.62
	4/7/2020		---	25.58	---		73.94
EP-4	8/10/2013	20-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	27.70	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		29.13	29.24	0.11	Unknown	Unknown
	4/7/2020		---	23.85	---	Unknown	Unknown
EP-12	8/10/2013	20-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	29.73	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	NL	---	Unknown	Unknown
	4/7/2020		---	24.91	---	Unknown	Unknown
EP-16	8/10/2013	TD: 34.35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	28.99	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	30.53	---	Unknown	Unknown
	4/7/2020		---	24.96	---	Unknown	Unknown
EP-20	8/10/2013	13-35	---	NM	---	Unknown	Unknown
	11/6/2013		---	NM	---	Unknown	Unknown
	3/12/2015		---	29.58	---	Unknown	Unknown
	6/24/2015		---	NM	---	Unknown	Unknown
	5/30/2018		---	31.02	---	Unknown	Unknown
	4/7/2020		---	25.66	---	Unknown	Unknown

Notes:

1. Groundwater depths were measured from the top of the PVC riser pipe.
2. Site datum based on assumed spot elevation.
3. NM = Not Measured
4. TD = Total Depth
5. DESTROYED = Well has been destroyed
6. ABANDONED = Well has been Abandoned
7. OBSTRUCTION = Well Ostructed / Unable to determine
8. DRY = Well Gauged DRY

TABLE 3
GROUNDWATER COC COCENTRATION DATA
APRIL 7, 2020 SAMPLING EVENT
FORMER RED DIAMOND (UNKNOWN UST# 14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7241
SCDHEC SITE ID NUMBER 14324

Well ID#	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
		RBSL 5	***RBSL 1,000***	***RBSL 700***	***RBSL 10,000***	***RBSL 25***	***RBSL 40***	***RBSL 5***	***RBSL 0.05***	***RBSL 240***	***RBSL 128***	***RBSL NE***	***RBSL 1,400***	***RBSL NE***	***RBSL 150***	***RBSL 10,000***	***RBSL 47***
MW-1	8/10/13	<100	**130**	**819**	**6,610**	**393**	<100	NT	**0.33**	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<125	**159**	**1,220**	**9,360**	**774**	<125	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	<100	**139**	**847**	**7,070**	**630**	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	<5.0	<5.0	**60.8**	**215**	**37.5**	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-2	8/10/13	**3,770**	**6,000**	**369**	**2,436**	**102**	<5	NT	**61.20**	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	**4,430**	**10,200**	**1,220**	**6,990**	**542**	<250	NT	**61.10**	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**13,200**	**24,200**	**1,540**	**11,400**	**529**	<50.0	<50.0	**201**	5,520	<100	<1,000	<1,000	<500	<50.0	<2,000	<100
	5/30/18	**13,300**	**27,500**	**2,350**	**12,600**	**809J**	<1,000	<1,000	**261**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
	4/7/20	**12,500**	**30,500**	**2,150**	**11,200**	**646J**	<1,250	<1,250	**107**	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
MW-3	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**259**	**3,390**	**1,230**	**6,020**	**374**	<25.0	<25.0	<0.020	<500	<50.0	<50.0	<500	<250	<25.0	<1,000	<50.0
	5/30/18	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	4/7/20	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	8/10/13	443	1,530	163	7,980	1,080	<50	NT	196	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**21,500**	**26,100**	**1,220**	**10,900**	**1,050**	<125	**93.9J**	**687**	**4,170**	<250	<2,500	<2,500	<1,250	**156**	<5,000	<250
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	**3,410**	**8,470**	**594J**	**5,420**	**507J**	<625	<625	**113**	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
MW-5	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	**5.60**	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**18,100**	**33,900**	**1,520**	**8,040**	**516**	<125	<125	**122**	**4,340**	<250	<2500	<2,500	<1,250	<125	<5,000	<250
	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.096**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	**3,340**	**6,990**	**609**	**3,110**	**174J**	<250	<250	**13.3**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
MW-8	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.030	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	4/7/20	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**6,400**	**12,000**	**817**	**5,650**	**247**	<25.0	**44.7**	**23.1**	**1,550**	<50.0	<500	<500	<250	**38.6**	<1,000	<50.0
	5/30/18	**7,340**	**18,900**	**1,190**	**6,770**	**404J**	<625	<625	**154**	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
	4/7/20	**3,090**	**9,320**	**628**	**3,130**	**213J**	<250	<250	**14.7**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
MW-13	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**2,610**	**7,620**	**1,220**	**7,420**	**629**	<125	<125	**43.2**	<2,500	<250	<2,500	<2,500	<1250	<125	<5,000	<250
	5/30/18	**2,280**	**3,190**	**427**	**3,370**	**171**	<100	<100	**38.6**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	4/7/20	**1,050**	**2,770**	**260**	**1,700**	**146**	<125	<125	**16.7**	<2,500	<250	<2,500	<2,500	<1,250	<125	<5,000	<250
MW-19	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.025	<100	<10.0	<100	<100	<50.0	<5.0	**5,910**	<10.0
	4/7/20	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-19R	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.040**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.089**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20	5/30/18	**38.9**	**3.2J**	**6.9**	**31.7**	**3.9J**	<5.0	<5.0	**0.17**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	**316**	**15.4**	**83.3**	**546**	**60.5**	<12.5	<12.5	**1.10**	<250	<25.0	<250	<250	<125	<12.5	<500	<25.0
MW-21	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-21R	4/7/20	<5.0	**2.8J**	<5.0	<5.0	**2.5J**	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-22	5/30/18	**338**	**731**	**58**	**399**	**16.3J**	<25.0	<25.0	**3.8**	<500	<50.0	<500	<500	<250	<25.0	<1,000	<50.0
	4/7/20	**2,550**	**5,790**	**317**	**1,820**	**141J**	<200	<200	**29.0**	<4,000	<400	<4,000	<4,000	<2,000	<200	<8,000	<400

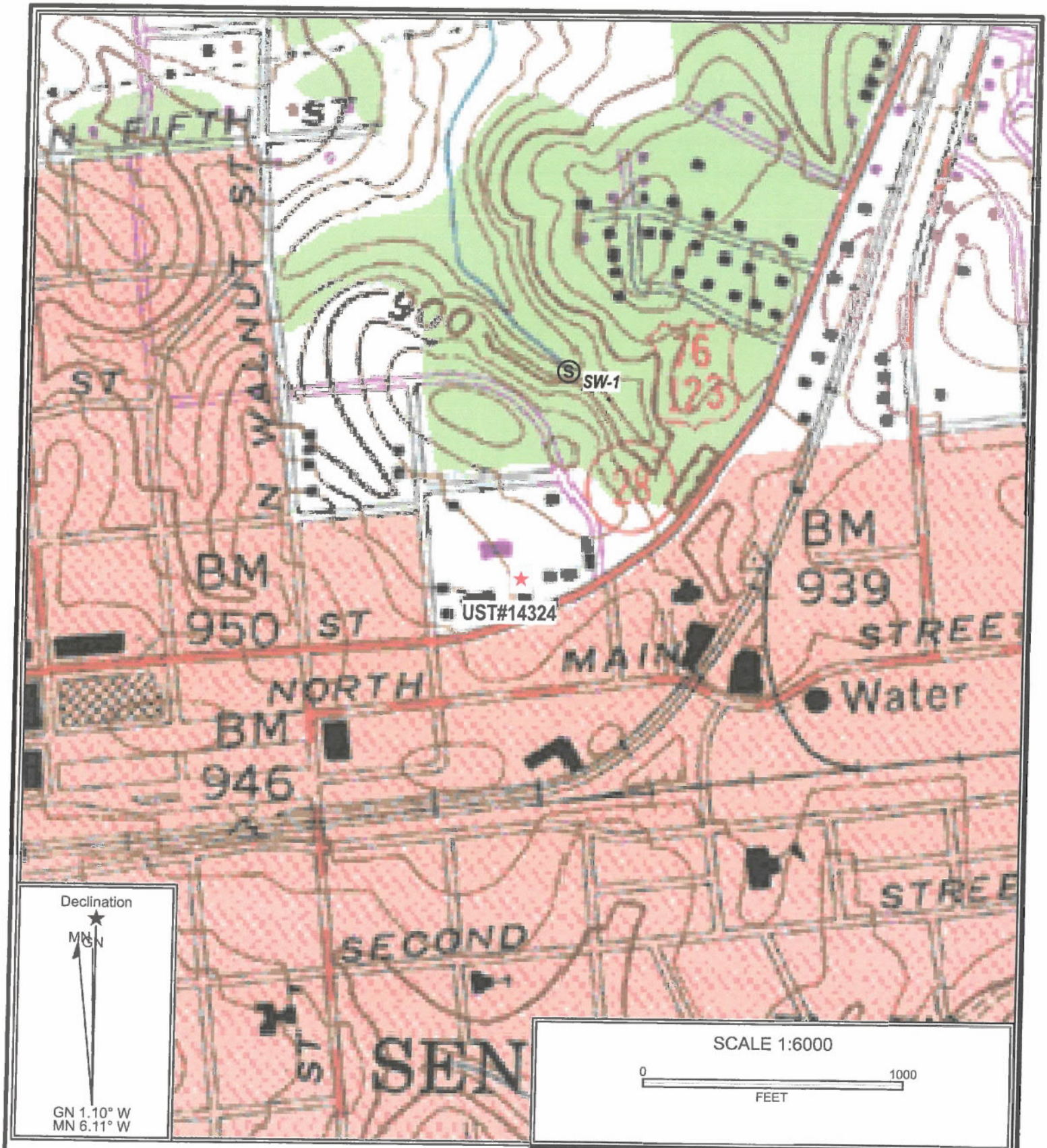
TABLE 3
GROUNDWATER COC COCENTRATION DATA
APRIL 7, 2020 SAMPLING EVENT
FORMER RED DIAMOND (UNKNOWN UST# 14324)
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7241
SCDHEC SITE ID NUMBER 14324

Well ID#	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
		RBSL 5	***RBSL 1,000***	***RBSL 700***	***RBSL 10,000***	***RBSL 25***	***RBSL 40***	***RBSL 5***	***RBSL 0.05***	***RBSL 240***	***RBSL 128***	***RBSL NE***	***RBSL 1,400***	***RBSL NE***	***RBSL 150***	***RBSL 10,000***	***RBSL 47***
MW-23	5/30/18	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-24	5/30/18	**14**	**17**	**1.8J**	**24**	<5.0	<5.0	**6.4**	**2.9**	<100	<10.0	<100	<100	<50.0	**2.5J**	<200	<10.0
	4/7/20	**6,730**	**6,630**	**486**	**3,150**	**187J**	<200	**508**	**207**	**3,500J**	<400	<4,000	<4,000	<2,000	**165J**	<8,000	<400
MW-25	5/30/18	**4.4J**	**9.5**	**8.7**	**50.2**	<5.0	<5.0	<5.0	<0.019	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	**2.5J**	<5.0	**13.9**	**70.2**	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-26	5/30/18	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
	4/7/20	**7,130**	**21,100**	**1,320**	**10,200**	**991**	<625	<625	**109**	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
MW-27	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100.0	<50.0	<5.0	<200	<10.0
MW-28	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100.0	<50.0	<5.0	<200	<10.0
MW-29	4/7/20	**4,290**	**5,570**	**907**	**5,300**	**377**	<250	<250	<0.020	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
DW-1	5/30/18	**2,240**	**1,260**	**161**	**1,130**	**88.5J**	<100	<100	**10.7**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	4/7/20	**2,550**	**1,660**	**209**	**1,140**	**114**	<100	<100	**9.2**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DW-2	4/7/20	**12,800**	**10,100**	**1,050**	**6,090**	**401J**	<500	<500	**79.2**	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
DW-3	4/7/20	**307**	<12.5	<12.5	**237**	**12.0J**	<12.5	**6.5J**	**1.6**	<250	<25.0	<250	<250	<125	<12.5	<500	<25.0
RW-1	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	**10,200**	**33,900**	**2,830**	**16,300**	**887J**	<1,000	<1,000	**125**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
RW-2	5/30/18	<100	**861**	**936**	**5,700**	**263**	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	4/7/20	<10.0	**34**	**121**	**563**	**52.5**	<10.0	<10.0	<0.020	<200	<20.0	<200	<200	<100	<10.0	<400	<20.0
RW-3	5/30/18	**1,020**	**4,120**	**2,550**	**14,900**	**686**	<250	<250	**0.66**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
	4/7/20	**449**	**2,090**	**2,980**	**13,100**	**471**	<200	<200	**0.81**	<4,000	<400	<4,000	<4,000	<2,000	<200	<8,000	<400
RW-4	5/30/18	**30,600**	**38,600**	**2,700**	**14,000**	**956J**	<1,250	**562J**	**1,850**	<25,000	<2,500	<25,000	<25,000	<12,500	**694J**	<50,000	<2,500
	4/7/20	**15,400**	**29,000**	**2,060**	**13,200**	**764J**	<1,000	<1,000	**40.7**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
RW-5	5/30/18	**28,800**	**36,600**	**2,430**	**12,400**	**614J**	<1,250	<1,250	**612**	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
	4/7/20	**16,600**	**27,400**	**1,740**	**10,800**	**702J**	<1,250	<1,250	**230**	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
EP-4	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**155**	**4,830**	**1,730**	**9,990**	**897**	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	5/30/18	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
	4/7/20	**21.2J**	**633**	**606**	**3,250**	**270**	<50.0	<50.0	<0.020	<1,000	<100	<1,000	<1,000	<500	<50.0	<2,000	<100
EP-12	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**8,600**	**16,600**	**1,060**	**12,600**	**1,380**	<625	<625	**298**	<12,500	<1,250	<12,500	<12,500	<6250	<625	<25,000	<1,250
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	**2,890**	**6,410**	**428**	**6,910**	**599**	<250	<250	**40.8**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
EP-16	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**4,540**	**9,720**	**1,140**	**16,400**	**31,800**	<500	<500	**876**	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
	5/30/18	**7,010**	**13,200.0**	**1,050**	**13,500**	**1,260**	<500	<500	**457**	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
	4/7/20	**1,900**	**5,170**	**375**	**7,160**	**609**	<250	<250	**91.9**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<250
EP-20	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**7,730**	**16,100**	**550**	**13,000**	**1,610**	<250	**156J**	**604**	<5,000	<500	<5,000	<5,000	<2,500	**99.1J**	<10,000	<500
	5/30/18	**7,810**	**9,720**	**290J**	**15,600**	**1,290**	<500	<500	**704**	<10,000	<1,000	<1,000	<10,000	<5,000	**173J**	<20,000	<1,000
	4/7/20	**6,050**	**12,500**	**691**	**12,500**	**817**	<500	<500	**182**	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
SW-1	4/7/20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<100	<10.0	<100	<100	<50.0	<1.0	<200	<10.0
DUP (EP-16)	3/12/15	**5,150**	**10,800**	**1,300**	**17,400**	**1,960**	<500	<500	**876**	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
DUP-1 (MW-13)	5/30/18	**3,010**	**3,370**	**570**	**3,960**	**528**	<100	<100	**58.1**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DUP-1(MW-13)	4/7/20	**1,250**	**3,060**	**297**	**1,890**	**147**	<100	<100	**15.7**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DUP-2(MW-2)	4/7/20	**12,800**	**30,800**	**2,160**	**11,200**	**595J**	<1,000	<1,000	**102**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
Field Blank	3/12/15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.28**	<100	<10	<100	<100	<100	<10	<1,000	<100
	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.022**	<100	<10	<100	<100	<100	<5	<1,000	<100
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10	<100	<100	<100	<5	<200	<100
Trip Blank	3/12/15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<10	<1,000	<100
	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<5	<1,000	<100
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<10	<200	<100
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<5	<200	<100

Notes:

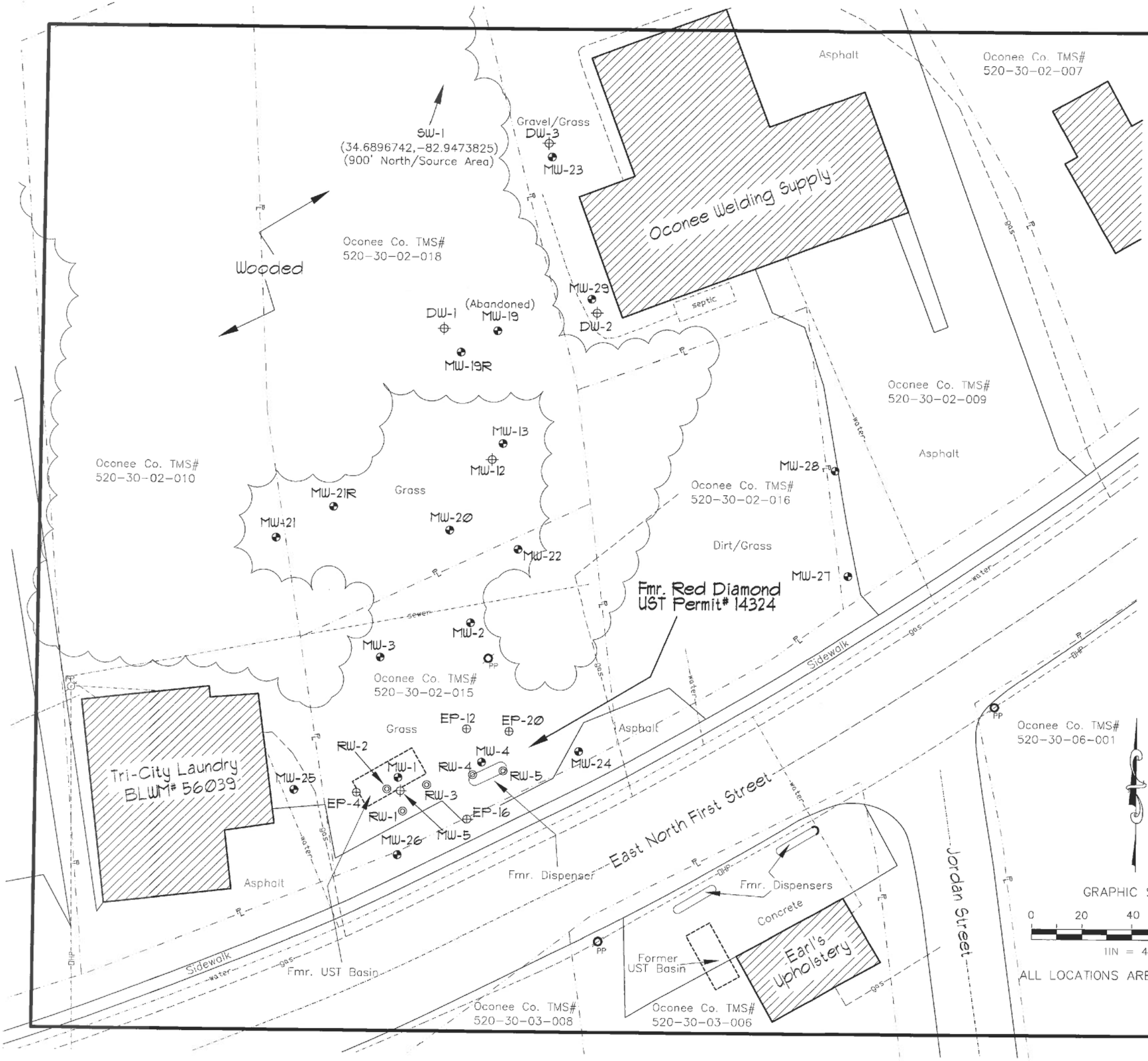
1. BDL = Below Practical Quantitative Limits
2. ug/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NL = Not Located
7. DRY = Well was Dry at the time of Sampling
8. NT = Not Tested.
9. EDB = Ethylene Dibromide
10. 1,2 DCA = 1,2-Dichloroethane
11. PROD = Free Phase Petroleum Product
12. * = Sample collected beneath Product
13. "J" Values used in Total BTEX Calculations
14. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
15. B = Detected in Method Blank
16. S = MS/MSD Failure
17. P = The RPD between the two columns exceeds 40%.
18. DIPE = Diisopropyl Ether
19. ETBE = Ethyl ter-butyl Ether
20. TAA = tert-Amyl Alcohol
21. TAME = tert-Amyl Methyl Ether
22. TBA = ter-Butyl Alcohol
23. TBF = tert-Butyl Formate
24. ETBA = 3,3-Dimethyl-1-Butanol
25. ABD. = Well Has been Abandoned

FIGURES



Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

Midlands Environmental Consultants, Inc.	Site Location
Former Red Diamond (UST Unknown #14324) 519 East North First Street, Seneca, SC SCDHEC Site ID# 14324	
Figure 1	MECI 20-7241



Explanation:

- Location of Waterable Bracketing Monitoring Well
- Location of "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- ℄ — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 20-7241
DATE April 23, 2020
FIGURE 2

Notes:

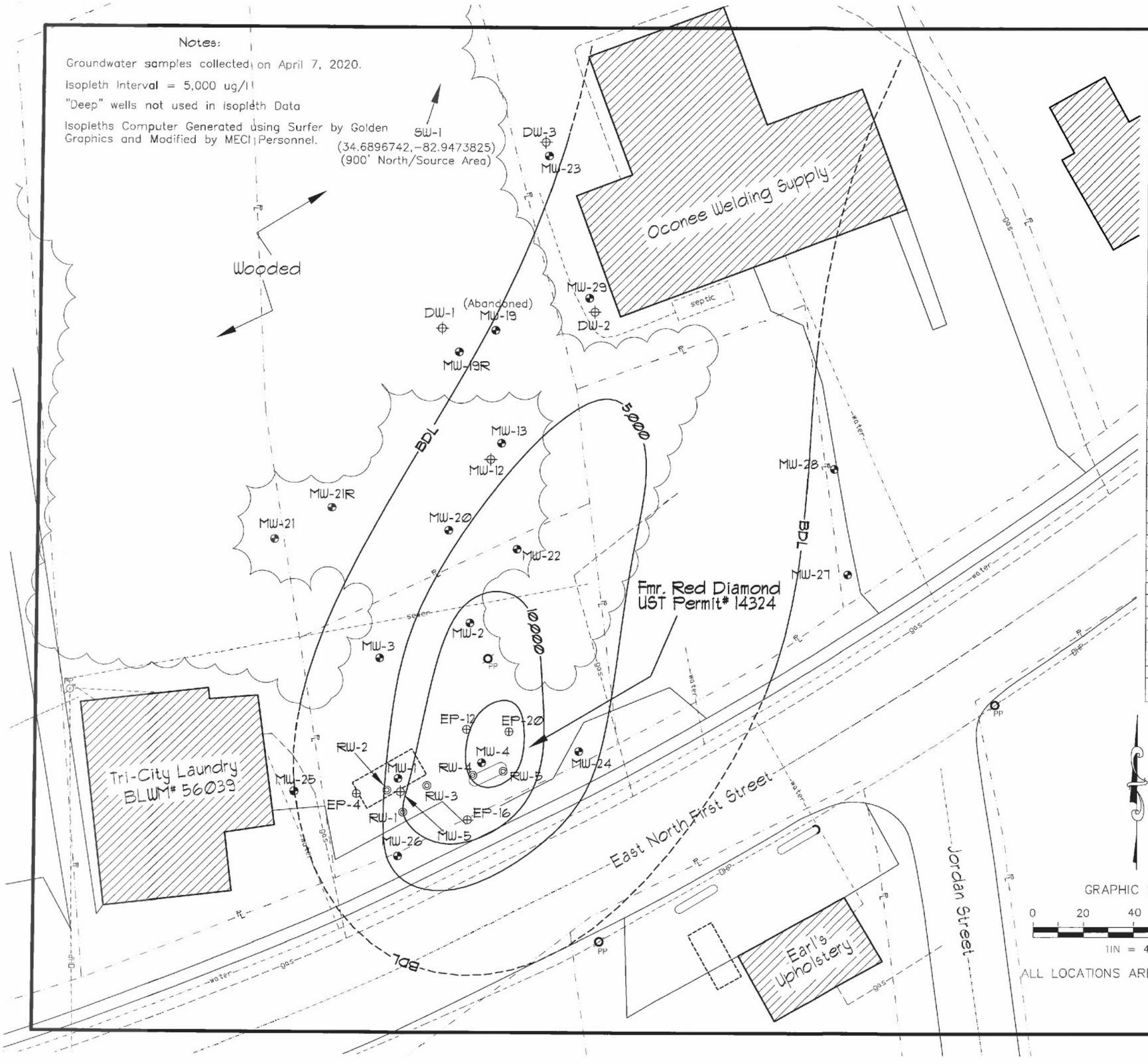
Groundwater samples collected on April 7, 2020.

Isopleth Interval = 5,000 ug/l

"Deep" wells not used in Isopleth Data

Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Benzene Concentration Isopleth (ug/l)



GROUNDWATER COC CONCENTRATION DATA

Well ID#	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)
	RBSL 5	*RBSL 1,000*	*RBSL 700*	*RBSL 10,000*	*RBSL 25*	*RBSL 40*	*RBSL 5*	*RBSL 0.05*
MW-1	<5.0	<5.0	60.8	215	37.5	<5.0	<5.0	<0.020
MW-2	12,500	30,500	2,150	11,200	646J	<1,250	<1,250	107
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	3,410	8,470	594J	5,420	507J	<625	<625	113
MW-5	3,340	6,990	609	3,110	174J	<250	<250	13.3
MW-8	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	3,090	9,320	628	3,130	213J	<250	<250	14.7
MW-13	1,050	2,770	260	1,700	146	<125	<125	16.7
MW-19	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-19R	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.089
MW-20	316	15.4	83.3	546	60.5	<12.5	<12.5	1.10
MW-21	NL	NL	NL	NL	NL	NL	NL	NL
MW-21R	<5.0	2.8J	<5.0	<5.0	2.5J	<5.0	<5.0	<0.020
MW-22	2,550	5,790	317	1,820	141J	<200	<200	29.0
MW-23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-24	6,730	6,630	486	3,150	187J	<200	508	207
MW-25	2.5J	<5.0	13.9	70.2	<5.0	<5.0	<5.0	<0.020
MW-26	7,130	21,100	1,320	10,200	991	<625	<625	109
MW-27	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-28	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-29	4,290	5,570	907	5,300	377	<250	<250	<0.020
DW-1	2,550	1,660	209	1,140	114	<100	<100	9.2
DW-2	12,800	10,100	1,050	6,090	401J	<500	<500	79.2
DW-3	307	<12.5	<12.5	237	12.0J	<12.5	6.5J	1.6
RW-1	10,200	33,900	2,830	16,300	887J	<1,000	<1,000	125
RW-2	<10.0	34	121	563	52.5	<10.0	<10.0	<0.020
RW-3	449	2,090	2,980	13,100	471	<200	<200	0.81
RW-4	15,400	29,000	2,060	13,200	764J	<1,000	<1,000	40.7
RW-5	16,600	27,400	1,740	10,800	702J	<1,250	<1,250	230
EP-4	21.2J	633	606	3,250	270	<50.0	<50.0	<0.020
EP-12	2,890	6,410	428	6,910	599	<250	<250	40.8
EP-16	1,900	5,170	375	7,160	609	<250	<250	91.9
EP-20	6,050	12,500	691	12,500	817	<500	<500	182
SW-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020
DUP-1(MW-13)	1,250	3,060	297	1,890	147	<100	<100	15.7
DUP-2(MW-2)	12,800	30,800	2,160	11,200	595J	<1,000	<1,000	102
Field Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
Trip Blank	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	NT NT

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Groundwater CoC Site Map
(Benzene Isopleth)

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 20-7241

DATE April 23, 2020

FIGURE 4

Notes:

Groundwater samples collected on April 7, 2020.

Isopleth Interval = 300 ug/l

"Deep" wells not used in Isopleth Data

Isopleths Computer Generated Using Surfer by Golden Graphics and Modified by MECI Personnel.

SW-1
(34.6896742,-82.9473825)
(900' North/Source Area)

Naphthalene Concentration Isopleth (ug/l)

Oconee Welding Supply

Wooded

(Abandoned)

Tri-City Laundry
BLWM# 56039

Fmr. Red Diamond
UST Permit# 14324

Earl's Upholstery

East North First Street

Jordan Street

septic

BDL

MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, MW-12, MW-13, MW-19, MW-19R, MW-20, MW-21, MW-21R, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, DW-1, DW-2, DW-3, EP-4, EP-12, EP-16, EP-20, RW-1, RW-2, RW-3, RW-4, RW-5

GROUNDWATER COC CONCENTRATION DATA

Well ID#	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)
	RBSL 5	***RBSL 1,000***	***RBSL 700***	***RBSL 10,000***	***RBSL 25***	***RBSL 40***	***RBSL 5***	***RBSL 0.05***
MW-1	<5.0	<5.0	**60.8**	**215**	**37.5**	<5.0	<5.0	<0.020
MW-2	**12,500**	**30,500**	**2,150**	**11,200**	**646J**	<1,250	<1,250	**107**
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	**3,410**	**8,470**	**594J**	**5,420**	**507J**	<625	<625	**113**
MW-5	**3,340**	**6,990**	**609**	**3,110**	**174J**	<250	<250	**13.3**
MW-8	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	**3,090**	**9,320**	**628**	**3,130**	**213J**	<250	<250	**14.7**
MW-13	**1,050**	**2,770**	**260**	**1,700**	**146**	<125	<125	**16.7**
MW-19	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-19R	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.089**
MW-20	**316**	**15.4**	**83.3**	**546**	**60.5**	<12.5	<12.5	**1.10**
MW-21	NL	NL	NL	NL	NL	NL	NL	NL
MW-21R	<5.0	**2.8J**	<5.0	**2.5J**	<5.0	<5.0	<5.0	<0.020
MW-22	**2,550**	**5,790**	**317**	**1,820**	**141J**	<200	<200	**29.0**
MW-23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-24	**6,730**	**6,630**	**486**	**3,150**	**187J**	<200	**508**	**207**
MW-25	**2.5J**	<5.0	**13.9**	**70.2**	<5.0	<5.0	<5.0	<0.020
MW-26	**7,130**	**21,100**	**1,320**	**10,200**	**991**	<625	<625	**109**
MW-27	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-28	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-29	**4,290**	**5,570**	**907**	**5,300**	**377**	<250	<250	<0.020
DW-1	**2,550**	**1,660**	**209**	**1,140**	**114**	<100	<100	**9.2**
DW-2	**12,800**	**10,100**	**1,050**	**6,090**	**401J**	<500	<500	**79.2**
DW-3	**307**	<12.5	<12.5	**237**	**12.0J**	<12.5	**6.5J**	**1.6**
RW-1	**10,200**	**33,900**	**2,830**	**16,300**	**887J**	<1,000	<1,000	**125**
RW-2	<10.0	**34**	**121**	**563**	**52.5**	<10.0	<10.0	<0.020
RW-3	**449**	**2,090**	**2,980**	**13,100**	**471**	<200	<200	**0.81**
RW-4	**15,400**	**29,000**	**2,060**	**13,200**	**764J**	<1,000	<1,000	**40.7**
RW-5	**16,600**	**27,400**	**1,740**	**10,800**	**702J**	<1,250	<1,250	**230**
EP-4	**21.2J**	**633**	**606**	**3,250**	**270**	<50.0	<50.0	<0.020
EP-12	**2,890**	**6,410**	**428**	**6,910**	**599**	<250	<250	**40.8**
EP-16	**1,900**	**5,170**	**375**	**7,160**	**609**	<250	<250	**91.9**
EP-20	**6,050**	**12,500**	**691**	**12,500**	**817**	<500	<500	**182**
SW-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020
DUP-1(MW-13)	**1,250**	**3,060**	**297**	**1,890**	**147**	<100	<100	**15.7**
DUP-2(MW-2)	**12,800**	**30,800**	**2,160**	**11,200**	**595J**	<1,000	<1,000	**102**
Field Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
Trip Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT
	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT

GRAPHIC SCALE
0 20 40 60 80
1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Groundwater CoC Site Map
(Naphthalene Isopleth)

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 20-7241
DATE April 23, 2020
FIGURE 4A

Notes:

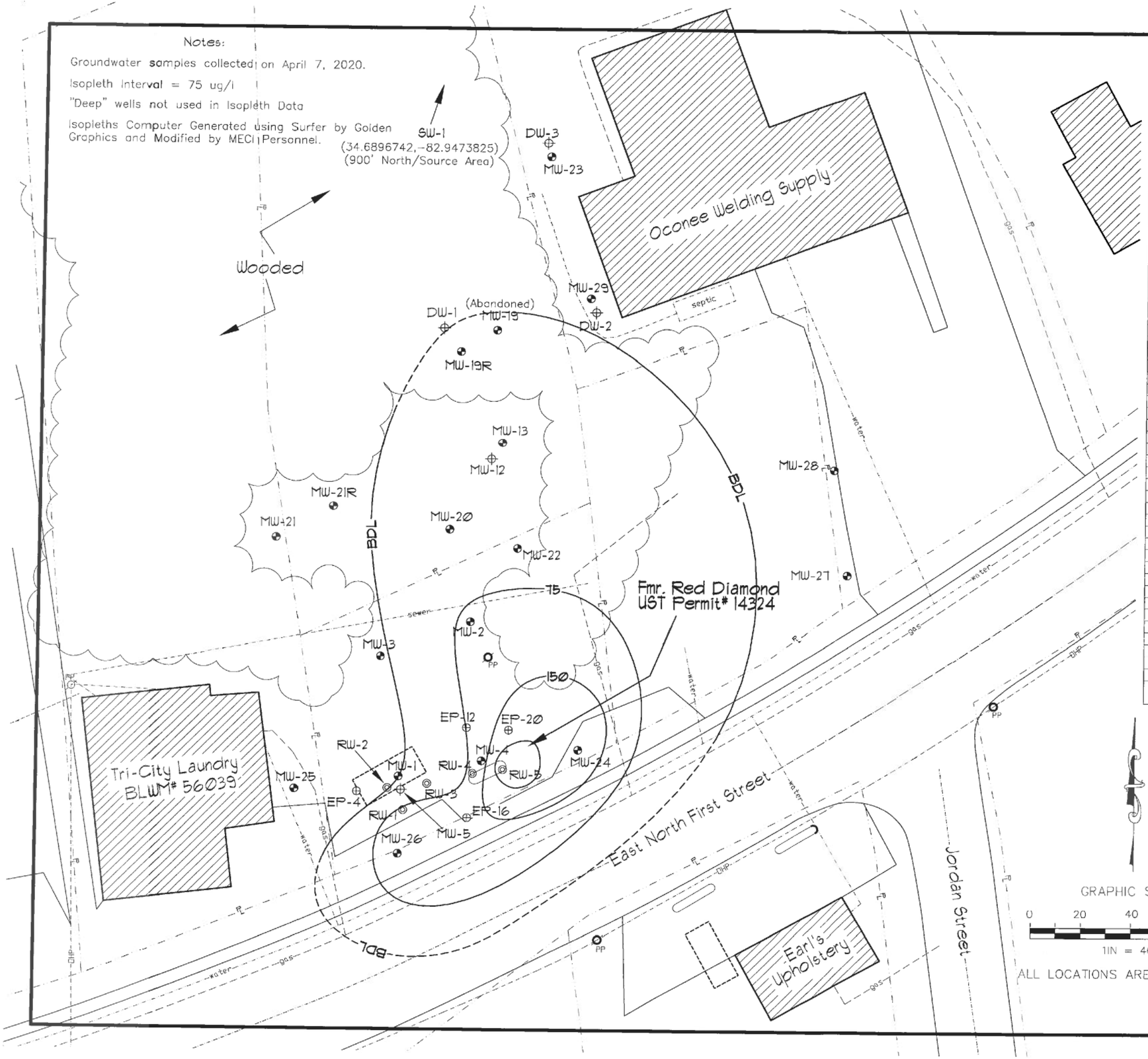
Groundwater samples collected on April 7, 2020.

Isopleth interval = 75 ug/l

"Deep" wells not used in Isopleth Data

Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

EDB Concentration Isopleth (ug/l)



GROUNDWATER COC CONCENTRATION DATA

Well ID#	Benzene (µg/l) RBSL 5	Toluene (µg/l) RBSL 1,000	Ethylbenzene (µg/l) RBSL 700	Total Xylenes (µg/l) RBSL 10,000	Naphthalene (µg/l) RBSL 25	MTBE (µg/l) RBSL 40	1,2 DCA (µg/l) RBSL 5	EDB (µg/l) RBSL 0.05
MW-1	<5.0	<5.0	60.8	215	37.5	<5.0	<5.0	<0.020
MW-2	12,500	30,500	2,150	11,200	646J	<1,250	<1,250	107
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	3,410	8,470	594J	5,420	507J	<625	<625	113
MW-5	3,340	6,990	609	3,110	174J	<250	<250	13.3
MW-8	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	3,090	9,320	628	3,130	213J	<250	<250	14.7
MW-13	1,050	2,770	260	1,700	146	<125	<125	16.7
MW-19	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-19R	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.089
MW-20	316	15.4	83.3	546	60.5	<12.5	<12.5	1.10
MW-21	NL	NL	NL	NL	NL	NL	NL	NL
MW-21R	<5.0	2.8J	<5.0	<5.0	2.5J	<5.0	<5.0	<0.020
MW-22	2,550	5,790	317	1,820	141J	<200	<200	29.0
MW-23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-24	6,730	6,630	486	3,150	187J	<200	508	207
MW-25	2.5J	<5.0	13.9	70.2	<5.0	<5.0	<5.0	<0.020
MW-26	7,130	21,100	1,320	10,200	991	<625	<625	109
MW-27	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-28	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
MW-29	4,290	5,570	907	5,300	377	<250	<250	<0.020
DW-1	2,550	1,660	209	1,140	114	<100	<100	9.2
DW-2	12,800	10,100	1,050	6,090	401J	<500	<500	79.2
DW-3	307	<12.5	<12.5	237	12.0J	<12.5	6.5J	1.6
RW-1	10,200	33,900	2,830	16,300	887J	<1,000	<1,000	125
RW-2	<10.0	34	121	563	52.5	<10.0	<10.0	<0.020
RW-3	449	2,090	2,980	13,100	471	<200	<200	0.81
RW-4	15,400	29,000	2,060	13,200	764J	<1,000	<1,000	40.7
RW-5	16,600	27,400	1,740	10,800	702J	<1,250	<1,250	230
EP-4	21.2J	633	606	3,250	270	<50.0	<50.0	<0.020
EP-12	2,890	6,410	428	6,910	599	<250	<250	40.8
EP-16	1,900	5,170	375	7,160	609	<250	<250	91.9
EP-20	6,050	12,500	691	12,500	817	<500	<500	182
SW-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020
DUP-1(MW-13)	1,250	3,060	297	1,890	147	<100	<100	15.7
DUP-2(MW-2)	12,800	30,800	2,160	11,200	595J	<1,000	<1,000	102
Field Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020
Trip Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT
	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Groundwater CoC Site Map
(EDB Isopleth)

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

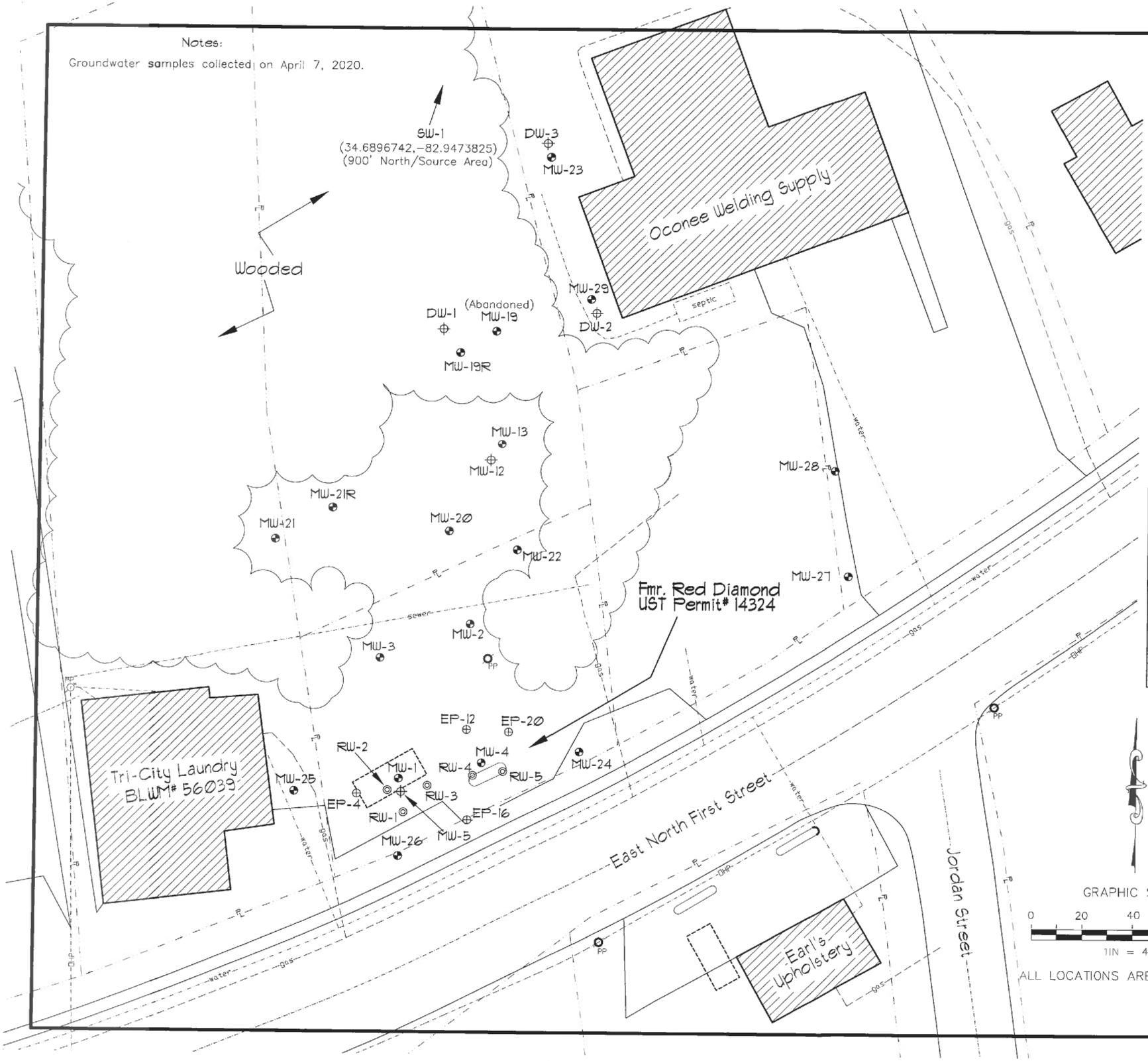
JOB NO. 20-7241

DATE April 23, 2020

FIGURE 4B

Notes:

Groundwater samples collected on April 7, 2020.



GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)

Well ID#	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
	RBSL 240	***RBSL 128***	***RBSL NE***	***RBSL 1,400***	***RBSL NE***	***RBSL 150***	***RBSL 10,000***	***RBSL 47***
MW-1	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-2	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
MW-5	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
MW-8	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
MW-13	<2,500	<250	<2,500	<2,500	<1,250	<125	<5,000	<250
MW-19	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-19R	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20	<250	<25.0	<250	<250	<125	<12.5	<500	<25.0
MW-21	NL	NL	NL	NL	NL	NL	NL	NL
MW-21R	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-22	<4,000	<400	<4,000	<4,000	<2,000	<200	<8,000	<400
MW-23	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-24	3,500J	<400	<4,000	<4,000	<2,000	165J	<8,000	<400
MW-25	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-26	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
MW-27	<100	<10.0	<100	<100.0	<50.0	<5.0	<200	<10.0
MW-28	<100	<10.0	<100	<100.0	<50.0	<5.0	<200	<10.0
MW-29	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
DW-1	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DW-2	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
DW-3	<250	<25.0	<250	<250	<125	<12.5	<500	<25.0
RW-1	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
RW-2	<200	<20.0	<200	<200	<100	<10.0	<400	<20.0
RW-3	<4,000	<400	<4,000	<4,000	<2,000	<200	<8,000	<400
RW-4	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
RW-5	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
EP-4	<1,000	<100	<1,000	<1,000	<500	<50.0	<2,000	<100
EP-12	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
EP-16	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<250
EP-20	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
SW-1	<100	<10.0	<100	<100	<50.0	<1.0	<200	<10.0
DUP-1(MW-13)	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DUP-2(MW-2)	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
Field Blank	<100	<10	<100	<100	<100	<5	<200	<100
Trip Blank	<100	<10	<100	<100	<100	<10	<200	<100
	<100	<10	<100	<100	<100	<5	<200	<100

Groundwater CoC Site Map
(Oxygenates)

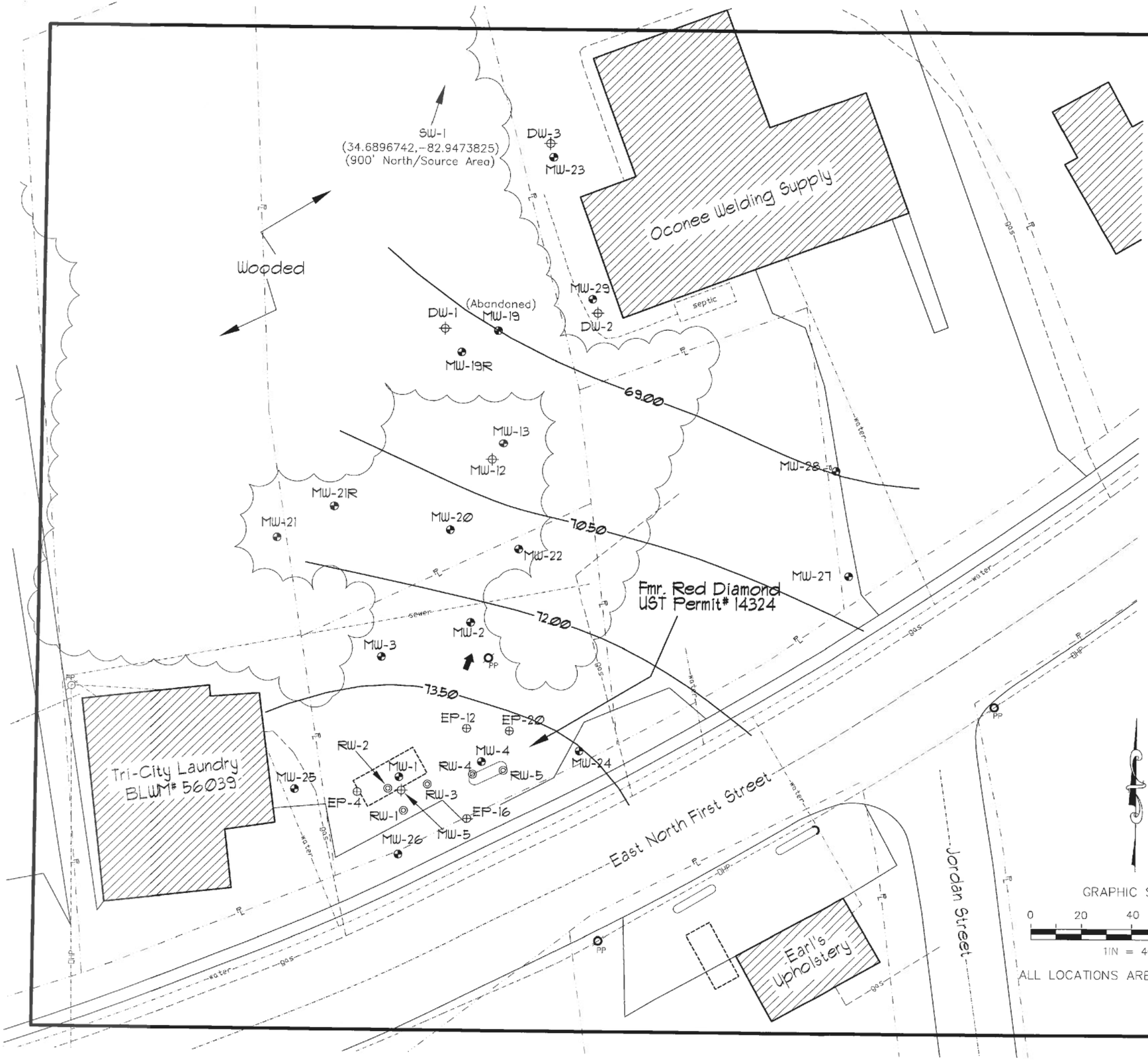
Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 20-7241

DATE April 23, 2020

FIGURE 4C



Groundwater Elevation Contour (feet)

POTENTIOMETRIC DATA

Well Number	Screened Interval	Depth to Water (ft.)	Well-head Elevation	Groundwater Elevation
MW-1	25-40	23.49	98.32	74.83
MW-2	30-40	26.22	98.60	72.38
MW-3	30-40	ABANDONED	97.92	ABANDONED
MW-4	30-40	24.96	99.07	74.11
MW-5	60-65	24.10	98.03	73.93
MW-8	N/A	ABANDONED	N/A	ABANDONED
MW-12	60-65	29.03	99.12	70.09
MW-13	36-46	29.55	99.41	69.86
MW-19	35-45	ABANDONED	99.58	ABANDONED
MW-19R	30-40	29.78	99.09	69.31
MW-20	30-40	27.30	98.30	71.00
MW-21	30-40	NL	95.58	NL
MW-21R	22-32	28.52	96.39	67.87
MW-22	30-40	26.22	99.03	72.81
MW-23	30-40	36.39	104.14	67.75
MW-24	30-40	26.62	100.19	73.57
MW-25	30-40	21.32	95.40	74.08
MW-26	30-40	24.16	98.46	74.30
MW-27	30-40	29.66	99.65	69.99
MW-28	32-42	33.43	102.37	68.94
MW-29	35-45	36.14	104.58	68.44
DW-1	60-65	29.29	98.63	69.34
DW-2	60-65	35.85	104.40	68.55
DW-3	60-65	36.15	104.46	68.31
RW-1	20-40	24.28	98.64	74.36
RW-2	20-40	24.21	98.74	74.53
RW-3	20-40	24.20	98.73	74.53
RW-4	20-40	25.10	99.31	74.21
RW-5	20-40	25.58	99.52	73.94
EP-4	20-35	23.85	Unknown	Unknown
EP-12	20-35	24.91	Unknown	Unknown
EP-16	TD: 34.35	24.96	Unknown	Unknown
EP-20	13-35	25.66	Unknown	Unknown

Notes:

Depth to groundwater measured on April 7, 2020.

Contour Interval = 1.50 Foot

Site Datum Based on Assumed Spot Elevation.

Groundwater Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

"Deep" not used in contouring, MW-21R, MW-22, MW-26 and RW-1.

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

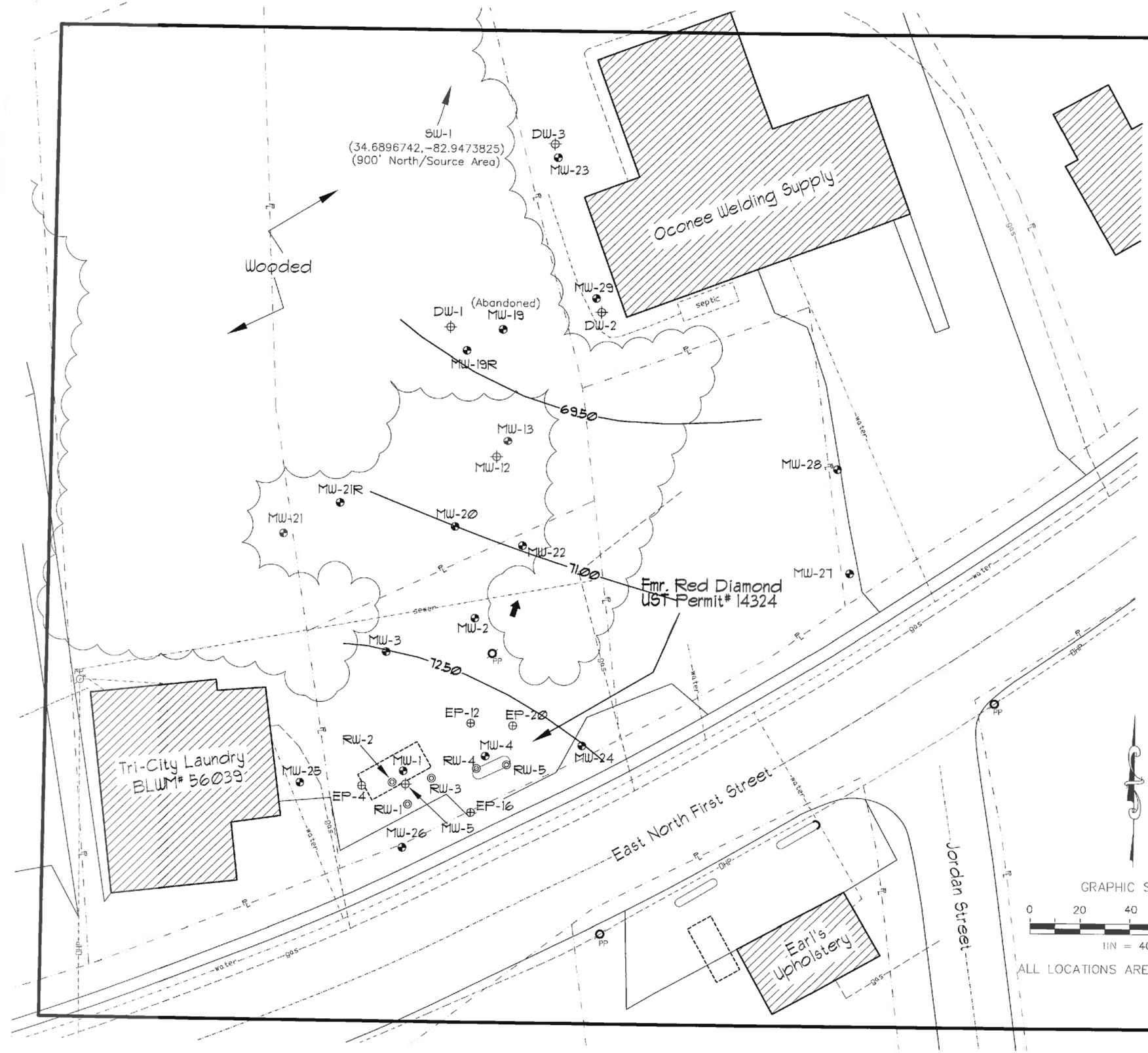
ALL LOCATIONS ARE APPROXIMATE

Potentiometric Data Site Map
(Groundwater Contour-"Shallow" Zone)

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 20-7241
DATE April 23, 2020
FIGURE 5



—— Groundwater Elevation Contour (feet)

POTENTIOMETRIC DATA

Well Number	Screened Interval	Depth to Water (ft.)	Well-head Elevation	Groundwater Elevation
MW-1	25-40	23.49	98.32	74.83
MW-2	30-40	26.22	98.60	72.38
MW-3	30-40	ABANDONED	97.92	ABANDONED
MW-4	30-40	24.96	99.07	74.11
MW-5	60-65	24.10	98.03	73.93
MW-8	N/A	ABANDONED	N/A	ABANDONED
MW-12	60-65	29.03	99.12	70.09
MW-13	36-46	29.55	99.41	69.86
MW-19	35-45	ABANDONED	99.58	ABANDONED
MW-19R	30-40	29.78	99.09	69.31
MW-20	30-40	27.30	98.30	71.00
MW-21	30-40	NL	95.58	NL
MW-21R	22-32	28.52	96.39	67.87
MW-22	30-40	26.22	99.03	72.81
MW-23	30-40	36.39	104.14	67.75
MW-24	30-40	26.62	100.19	73.57
MW-25	30-40	21.32	95.40	74.08
MW-26	30-40	24.16	98.46	74.30
MW-27	30-40	29.66	99.65	69.99
MW-28	32-42	33.43	102.37	68.94
MW-29	35-45	36.14	104.58	68.44
DW-1	60-65	29.29	98.63	69.34
DW-2	60-65	35.85	104.40	68.55
DW-3	60-65	36.15	104.46	68.31
RW-1	20-40	24.28	98.64	74.36
RW-2	20-40	24.21	98.74	74.53
RW-3	20-40	24.20	98.73	74.53
RW-4	20-40	25.10	99.31	74.21
RW-5	20-40	25.58	99.52	73.94
EP-4	20-35	23.85	Unknown	Unknown
EP-12	20-35	24.91	Unknown	Unknown
EP-16	TD: 34.35	24.96	Unknown	Unknown
EP-20	13-35	25.66	Unknown	Unknown

Notes:

Depth to groundwater measured on April 7, 2020.

Contour Interval = 1.50 Foot

Site Datum Based on Assumed Spot Elevation.

Groundwater Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Only MW-5, MW-12, DW-1, DW-2 and DW-3 used in "Deep" Groundwater Contour.

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Potentiometric Data Site Map
(Groundwater Contour-"Deep" Zone)

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 20-7241
DATE April 23, 2020
FIGURE 5A

APPENDIX A:

SITE SURVEY
(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-1	Initial	14:39							23.44		25	16.51	2.64	8.5	strong odor
	1st	14:41									40				
	2nd	14:43		Sheen											
	3rd	14:45											13.46		sheen
	4th														
	5th														
	Sampling	14:52													
mw-2	Initial	12:07	5.03	122.9	19.4	1.34	20.39		26.22		30	13.78	2.25	7	strong odor
	1st	12:10	4.97	119.4	19.0	1.26	57.41				40				
	2nd	12:12	4.94	117.6	18.8	1.21	48.89								
	3rd	12:14	4.91	114.3	18.6	1.17	41.64						11.23		Purge-2
	4th														
	5th														
	Sampling	12:21	4.89	110.6	18.5	1.14	22.68								
mw-4	Initial	13:43	5.62	112.9	20.3	1.94	26.87		24.96		30	15.04	2.45	8	odor
	1st	13:45	5.54	108.6	19.8	1.86	64.11				40				
	2nd	13:47	5.52	104.7	19.6	1.83	52.14								
	3rd	13:49	5.47	101.3	19.4	1.78	46.43						12.26		
	4th														
	5th														
	Sampling	13:56	5.44	96.9	19.3	1.76	28.47								
mw-5	Initial	14:45	5.65	204.9	19.4	1.91	22.14		24.10		60	45.90	7.48	24	odor
	1st	14:51	5.61	201.2	19.1	1.86	63.81				70				
	2nd	14:57	5.58	196.7	18.9	1.81	57.96								
	3rd	15:03	5.55	194.1	18.7	1.79	42.81						37.41		
	4th														
	5th														
	Sampling	15:10	5.53	192.9	18.5	1.77	30.16								

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

375 gallons

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-12	Initial	10:14	4.51	87.0	18.7	2.51	27.64		29.03		60	5.47	5.86	17	Slight odor
	1st	11:19	4.43	85.6	18.4	2.46	56.94				65		24.32		
	2nd	11:24	4.39	83.7	18.2	2.42	47.88								
	3rd	11:29	4.36	82.4	18.1	2.37	42.46								
	4th														
	5th														
	Sampling	11:36	4.37	81.6	18.1	2.34	29.64								
mw-13	Initial	11:28	4.29	108.8	18.3	2.90	28.64		29.58		36	16.45	2.68	7.5	Strong odor
	1st	11:30	4.21	101.3	18.0	2.78	59.86				46		13.41		Dup-1
	2nd	11:32	4.17	98.7	17.8	2.67	43.79								
	3rd	11:34	4.14	97.1	17.6	2.62	41.64								
	4th														
	5th														
	Sampling	11:41	4.12	96.4	17.5	2.57	30.24								
mw-19R	Initial	10:57	3.79	41.7	19.4	3.07	20.43		29.28		30	10.22	1.67	5	No odor
	1st	10:58	3.67	40.3	19.0	2.96	54.71				40		8.33		
	2nd	10:59	3.62	39.8	18.8	2.94	46.98								
	3rd	11:00	3.56	39.3	18.6	2.91	41.42								
	4th														
	5th														
	Sampling	11:07	3.54	36.4	18.5	2.87	23.07								
mw-20	Initial	11:48	4.95	36.2	18.9	3.35	21.42		27.30		30	12.20	2.07	6.5	No odor
	1st	11:50	4.88	35.3	18.6	3.26	60.31				40		10.35		
	2nd	11:52	4.84	34.7	18.4	3.19	54.28								
	3rd	11:54	4.79	33.9	18.3	3.17	46.44								
	4th														
	5th														
	Sampling	12:01	4.76	33.1	18.3	3.14	23.69								

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-21R	Initial	11:43	4.77	111.6	19.3	1.70	27.96		28.52		22	3.48	0.57	2	No odor
	1st	11:43	4.71	106.4	19.0	1.64	66.14				32				
	2nd	11:44	4.65	104.1	18.8	1.52	51.98								
	3rd	11:44	4.61	101.3	18.6	1.54	43.66								
	4th														
	5th														
	Sampling	11:50	4.58	102.6	18.5	1.50	28.14						2.84		
MW-22	Initial	11:57	5.32	150.1	19.2	2.73	25.81		26.22		30	3.78	2.25	7	slight odor
	1st	11:59	5.26	146.3	18.8	2.64	57.64				40				
	2nd	12:01	5.24	142.7	18.6	2.58	48.91								
	3rd	12:03	5.21	139.8	18.5	2.53	43.64								
	4th														
	5th														
	Sampling	12:10	5.19	135.7	18.5	2.47	27.18						11.23		
MW-23	Initial	10:43	4.24	29.9	17.6	5.51	23.61		36.39		30	3.61	0.59	2	No odor
	1st	10:43	4.18	26.4	17.3	5.37	57.64				40				
	2nd	10:44	4.11	25.8	17.1	5.24	48.91								
	3rd	10:44	4.09	25.1	16.9	5.19	43.44								
	4th														
	5th														
	Sampling	10:50	4.03	25.7	16.9	5.14	25.09						2.94		
MW-24	Initial	12:28	5.17	166.3	21.3	2.29	23.48		26.62		30	3.38	2.18	7	Strong odor
	1st	12:30	5.11	161.4	21.0	2.21	60.31				40				
	2nd	12:32	5.07	156.7	20.8	2.17	57.12								
	3rd	12:34	5.02	152.8	20.6	2.12	49.18								
	4th														
	5th														
	Sampling	12:41	4.99	147.6	20.5	2.07	26.19						10.90		

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Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
mw-25	Initial	15:16	5.47	69.5	19.1	1.68	23.14		21.32		30	8.68	3.04	10	Slight odor
	1st	15:19	5.42	63.9	18.7	1.61	57.19				40	12.68	15.22		
	2nd	15:22	5.39	60.2	18.5	1.54	48.19								
	3rd	15:25	5.37	57.9	18.7	1.50	40.21								
	4th														
	5th														
	Sampling	15:32	5.35	55.6	18.2	1.48	25.19								
mw-26	Initial	15:17							24.16		30	5.84	2.58	8	Strong odor Sheen
	1st	15:19									40	15.84	12.91		
	2nd	15:22													
	3rd	15:24	Sheen												
	4th														
	5th														
	Sampling	15:31													
mw-27	Initial	10:43	4.67	21.6	20.6	5.15	21.42		29.66		30	10.34	1.69	5	No odor
	1st	10:44	4.59	21.0	20.4	5.04	54.13				40		8.43		
	2nd	10:45	4.52	20.4	20.2	4.94	46.11								
	3rd	10:46	4.46	14.6	20.0	4.97	40.21								
	4th														
	5th														
	Sampling	10:52	4.41	19.2	19.9	4.83	32.67								
mw-28	Initial	10:00	7.24	29.8	20.5	6.76	23.46		33.43		32	6.57	1.40	5	No odor
	1st	10:01	6.70	27.0	20.5	6.80	64.98				42		6.98		
	2nd	10:02	6.68	26.4	20.4	6.86	54.14								
	3rd	10:03	6.64	25.9	20.3	6.81	46.98								
	4th														
	5th														
	Sampling	10:10	6.61	25.3	20.4	6.92	24.61								

*= (Depth of Well) - (Depth to Water = Water Height

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**= One Well Volume x 5 = Gallons Purged (calculated)

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1"	0.047
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4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-29	Initial	10:26	4.38	36.7	17.8	2.38	2506		36.14		35	8.86	1.44	5	slight odor
	1st	10:27	4.31	34.9	17.4	2.29	63.84				45				
	2nd	10:28	4.26	32.6	17.2	2.17	46.44								
	3rd	10:29	4.24	31.8	17.1	2.12	42.84								
	4th														
	5th														
	Sampling	10:36	4.22	30.3	17.1	2.07	27.08						7.22		
DW-1	Initial	10:59	4.33	124	19.0	2.74	20.38		29.29		60	35.71	5.82	19	No odor
	1st	11:04	4.26	136.3	18.4	2.67	58.61				65				
	2nd	11:09	4.21	129.7	18.3	2.52	43.79								
	3rd	11:14	4.16	124.6	18.1	2.51	38.84								
	4th														
	5th														
	Sampling	11:21	4.14	121.3	18.0	2.43	22.07						29.10		
DW-2	Initial	10:00	4.12	49.3	17.9	3.02	21.39		35.85		60	29.15	4.75	17	slight odor
	1st	10:04	4.19	35.4	17.5	2.31	57.16				65				
	2nd	10:08	4.10	33.6	17.3	2.24	43.84								
	3rd	10:12	4.06	31.8	17.2	2.15	34.61								
	4th														
	5th														
	Sampling	10:19	4.03	32.4	17.2	2.11	23.04						23.76		
DW-3	Initial	10:17	4.21	32.2	18.0	2.37	27.64		36.15		60	28.85	4.70	16	No odor
	1st	10:21	4.14	31.8	17.6	2.25	56.88				65				
	2nd	10:25	4.09	34.6	17.4	2.19	47.13								
	3rd	10:29	4.06	31.8	17.3	2.11	36.88								
	4th														
	5th														
	Sampling	10:36	4.02	33.7	17.3	2.07	29.14						23.51		

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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Rw-1	Initial	13:29	5.12	148.7	14.9	2.14	28.64		24.28		20	15.72	10.27	35	Strong odor
	1st	13:37	5.09	194.2	19.6	2.07	64.81				40		51.33		
	2nd	12:45	5.06	186.3	19.4	2.03	56.98								
	3rd	13:53	5.02	182.4	19.2	1.99	49.43								
	4th														
	5th														
	Sampling	14:00	4.99	180.4	19.1	1.96	31.16								
Rw-2	Initial	14:07	5.34	297.2	19.1	1.63	27.84		24.21		20	15.79	10.31	35	Strong odor
	1st	14:15	5.29	291.4	18.7	1.54	56.74				40		51.55		
	2nd	14:23	5.25	284.3	18.5	1.49	49.18								
	3rd	14:31	5.23	279.4	18.7	1.46	40.24								
	4th														
	5th														
	Sampling	14:38	5.21	276.1	18.2	1.43	27.99								
Rw-3	Initial	12:51	5.32	293.6	19.3	1.43	29.64		24.20		20	15.80	10.32	34	Strong odor
	1st	12:59	5.26	284.3	12.0	1.37	62.89				40		51.59		
	2nd	13:07	5.24	272.4	18.8	1.34	56.49								
	3rd	13:15	5.21	276.2	18.6	1.31	49.18								
	4th														
	5th														
	Sampling	13:22	5.18	274.1	18.5	1.29	31.64								
Rw-4	Initial	14:04	5.48	145.8	20.0	1.57	29.94		25.10		20	14.90	9.73	33	Strong odor
	1st	14:11	5.45	141.3	19.7	1.49	64.68				40		48.65		
	2nd	14:18	5.42	177.9	18.5	1.42	59.14								
	3rd	14:25	5.39	134.1	18.3	1.36	53.29								
	4th														
	5th														
	Sampling	14:32	5.36	132.6	18.2	1.34	30.19								

*= (Depth of Well) - (Depth to Water = Water Height

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**= One Well Volume x 5 = Gallons Purged (calculated)

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1"	0.047
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4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
RW-5	Initial	13:05	4.79	86.1	20.5	2.30	23.67		25.58		20	14.42	~~9.42~~	~~30~~	Strong odor
	1st	13:13	4.76	84.9	20.2	2.21	56.74				40				
	2nd	13:21	4.71	83.1	20.0	2.14	47.19								
	3rd	13:29	4.68	82.6	19.8	2.16	40.21								
	4th														
	5th														
	Sampling	13:36	4.64	83.4	19.7	2.13	25.08						~~47.08~~		
EP-4	Initial	14:59							23.85		20	11.15	1.82	6	Strong odor
	1st	15:00									35				
	2nd	15:01													
	3rd	15:02		sheen									9.09		sheen
	4th														
	5th														
	Sampling	15:09													
EP-12	Initial	12:17	4.75	92.2	19.9	3.16	24.11		24.91		20	10.19	1.66	5.5	slight odor
	1st	12:18	4.71	90.4	19.6	3.10	63.87				35				
	2nd	12:19	4.68	87.8	19.4	3.07	54.12								
	3rd	12:20	4.64	86.3	19.2	3.02	47.19								
	4th														
	5th														
	Sampling	12:27	4.61	85.3	19.1	3.00	26.14						8.30		add cap
EP-16	Initial	12:34							24.96		TD: 34.35	9.39	1.53	5	Strong odor sheen
	1st	12:35													
	2nd	12:36		sheen											
	3rd	12:37											7.65		add cap
	4th														
	5th														
	Sampling	12:44													

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Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: RG, JP, SS

Sampling Date(s): 4/7/2020

Sampling Case#: 1

Job Name: Unknown UST 14324

Job Number: 20-7241

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
EP-20	Initial	12:46	5.49	90.9	20.9	1.70	22.04		2.96		13				
	1st	12:49	5.42	87.7	20.4	1.64	66.31								
	2nd	12:50	5.38	84.3	20.2	1.61	54.19								
	3rd	12:51	5.37	82.1	20.0	1.57	49.16				35	32.04	1.52	5	Strong odor
	4th														
	5th														
	Sampling	12:58	5.34	80.2	19.9	1.54	23.69						7.61		
SW-1	Initial														
	1st														
	2nd	15:40		collected from Creek											
	3rd														
	4th														
	5th			34.6896742, -82.9473825											
	Sampling														
DUP-1	Initial	11:47		Strong odor				MW-13							
	1st														
DUP-2	2nd														
	3rd														
	4th	12:21		Strong odor				MW-2							
	5th														
	Sampling														
FB	Initial														
	1st	15:48													
TB-1	2nd														
	3rd	8:00													
TB-2	4th														
	5th	8:00													
	Sampling														

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Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 16, 2020

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

RE: Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2020. 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
(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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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92473149001	MW-1	Water	04/07/20 14:52	04/08/20 08:40
92473149002	MW-2	Water	04/07/20 12:21	04/08/20 08:40
92473149003	MW-4	Water	04/07/20 13:56	04/08/20 08:40
92473149004	MW-5	Water	04/07/20 15:10	04/08/20 08:40
92473149005	MW-12	Water	04/07/20 11:36	04/08/20 08:40
92473149006	MW-13	Water	04/07/20 11:41	04/08/20 08:40
92473149007	MW-19R	Water	04/07/20 11:07	04/08/20 08:40
92473149008	MW-20	Water	04/07/20 12:01	04/08/20 08:40
92473149009	MW-21R	Water	04/07/20 11:50	04/08/20 08:40
92473149010	MW-22	Water	04/07/20 12:50	04/08/20 08:40
92473149011	MW-23	Water	04/07/20 10:50	04/08/20 08:40
92473149012	MW-24	Water	04/07/20 12:41	04/08/20 08:40
92473149013	MW-25	Water	04/07/20 15:32	04/08/20 08:40
92473149014	MW-26	Water	04/07/20 15:31	04/08/20 08:40
92473149015	MW-27	Water	04/07/20 10:52	04/08/20 08:40
92473149016	MW-28	Water	04/07/20 10:10	04/08/20 08:40
92473149017	MW-29	Water	04/07/20 10:36	04/08/20 08:40
92473149018	DW-1	Water	04/07/20 11:21	04/08/20 08:40
92473149019	DW-2	Water	04/07/20 10:19	04/08/20 08:40
92473149020	DW-3	Water	04/07/20 10:36	04/08/20 08:40
92473149021	RW-1	Water	04/07/20 14:00	04/08/20 08:40
92473149022	RW-2	Water	04/07/20 14:38	04/08/20 08:40
92473149023	RW-3	Water	04/07/20 13:22	04/08/20 08:40
92473149024	RW-4	Water	04/07/20 14:32	04/08/20 08:40
92473149025	RW-5	Water	04/07/20 13:36	04/08/20 08:40
92473149026	EP-4	Water	04/07/20 15:09	04/08/20 08:40
92473149027	EP-12	Water	04/07/20 12:27	04/08/20 08:40
92473149028	EP-16	Water	04/07/20 12:44	04/08/20 08:40
92473149029	EP-20	Water	04/07/20 12:58	04/08/20 08:40
92473149030	SW-1	Water	04/07/20 15:40	04/08/20 08:40
92473149031	DUP-1	Water	04/07/20 11:41	04/08/20 08:40
92473149032	DUP-2	Water	04/07/20 12:21	04/08/20 08:40
92473149033	FB	Water	04/07/20 15:48	04/08/20 08:40
92473149034	TB-1	Water	04/07/20 08:00	04/08/20 08:40
92473149035	TB-2	Water	04/07/20 08:00	04/08/20 08:40

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SAMPLE ANALYTE COUNT

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92473149001	MW-1	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149002	MW-2	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149003	MW-4	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149004	MW-5	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149005	MW-12	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149006	MW-13	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149007	MW-19R	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149008	MW-20	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149009	MW-21R	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149010	MW-22	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149011	MW-23	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149012	MW-24	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149013	MW-25	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149014	MW-26	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149015	MW-27	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149016	MW-28	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92473149017	MW-29	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149018	DW-1	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92473149019	DW-2	EPA 8011	JMS1	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92473149020	DW-3	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149021	RW-1	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149022	RW-2	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149023	RW-3	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149024	RW-4	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149025	RW-5	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149026	EP-4	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149027	EP-12	EPA 8260D	CL	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149028	EP-16	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149029	EP-20	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149030	SW-1	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149031	DUP-1	EPA 8260D	CL	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149032	DUP-2	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149033	FB	EPA 8260D	SAS	20	PASI-C
		EPA 8011	JMS1	2	PASI-C
92473149034	TB-1	EPA 8260D	SAS	20	PASI-C
92473149035	TB-2	EPA 8260D	SAS	20	PASI-C
		EPA 8260D	CL	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-1 **Lab ID: 92473149001** Collected: 04/07/20 14:52 Received: 04/08/20 08:40 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	0.011	1	04/10/20 07:20	04/10/20 23:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	04/10/20 07:20	04/10/20 23:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/13/20 22:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/13/20 22:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/13/20 22:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/13/20 22:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/13/20 22:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/13/20 22:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/13/20 22:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/13/20 22:18	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/13/20 22:18	64-17-5	
Ethylbenzene	**60.8**	ug/L	5.0	1.8	1		04/13/20 22:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/13/20 22:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/13/20 22:18	1634-04-4	
Naphthalene	**37.5**	ug/L	5.0	2.1	1		04/13/20 22:18	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/13/20 22:18	108-88-3	
Xylene (Total)	**215**	ug/L	5.0	5.0	1		04/13/20 22:18	1330-20-7	
m&p-Xylene	**170**	ug/L	10.0	4.1	1		04/13/20 22:18	179601-23-1	
o-Xylene	**45.1**	ug/L	5.0	2.0	1		04/13/20 22:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/13/20 22:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/13/20 22:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/13/20 22:18	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-2 **Lab ID: 92473149002** Collected: 04/07/20 12:21 Received: 04/08/20 08:40 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)	**107**	ug/L	4.9	2.8	250	04/10/20 07:20	04/13/20 17:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		250	04/10/20 07:20	04/13/20 17:30	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	25000	16400	250		04/14/20 03:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	760	250		04/14/20 03:41	994-05-8	
Benzene	**12500**	ug/L	1250	435	250		04/14/20 03:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	13500	250		04/14/20 03:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	22800	250		04/14/20 03:41	75-65-0	v2
tert-Butyl Formate	ND	ug/L	12500	6020	250		04/14/20 03:41	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	1250	515	250		04/14/20 03:41	107-06-2	
Diisopropyl ether	ND	ug/L	1250	872	250		04/14/20 03:41	108-20-3	
Ethanol	ND	ug/L	50000	36000	250		04/14/20 03:41	64-17-5	
Ethylbenzene	**2150**	ug/L	1250	460	250		04/14/20 03:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	2120	250		04/14/20 03:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	775	250		04/14/20 03:41	1634-04-4	
Naphthalene	**646J**	ug/L	1250	522	250		04/14/20 03:41	91-20-3	
Toluene	**30500**	ug/L	1250	502	250		04/14/20 03:41	108-88-3	
Xylene (Total)	**11200**	ug/L	1250	1250	250		04/14/20 03:41	1330-20-7	
m&p-Xylene	**7690**	ug/L	2500	1030	250		04/14/20 03:41	179601-23-1	
o-Xylene	**3550**	ug/L	1250	510	250		04/14/20 03:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		250		04/14/20 03:41	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		250		04/14/20 03:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130		250		04/14/20 03:41	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-4 **Lab ID: 92473149003** Collected: 04/07/20 13:56 Received: 04/08/20 08:40 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)	**113**	ug/L	5.1	2.9	250	04/10/20 07:20	04/13/20 17:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		250	04/10/20 07:20	04/13/20 17:42	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	12500	8200	125		04/15/20 14:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	380	125		04/15/20 14:36	994-05-8	
Benzene	**3410**	ug/L	625	218	125		04/15/20 14:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6740	125		04/15/20 14:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	11400	125		04/15/20 14:36	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	3010	125		04/15/20 14:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	625	258	125		04/15/20 14:36	107-06-2	
Diisopropyl ether	ND	ug/L	625	436	125		04/15/20 14:36	108-20-3	
Ethanol	ND	ug/L	25000	18000	125		04/15/20 14:36	64-17-5	
Ethylbenzene	**594J**	ug/L	625	230	125		04/15/20 14:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	1060	125		04/15/20 14:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	625	388	125		04/15/20 14:36	1634-04-4	
Naphthalene	**507J**	ug/L	625	261	125		04/15/20 14:36	91-20-3	
Toluene	**8470**	ug/L	625	251	125		04/15/20 14:36	108-88-3	IH
Xylene (Total)	**5420**	ug/L	625	625	125		04/15/20 14:36	1330-20-7	
m&p-Xylene	**3500**	ug/L	1250	514	125		04/15/20 14:36	179601-23-1	
o-Xylene	**1920**	ug/L	625	255	125		04/15/20 14:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		125		04/15/20 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		125		04/15/20 14:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130		125		04/15/20 14:36	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-5 **Lab ID: 92473149004** Collected: 04/07/20 15:10 Received: 04/08/20 08:40 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)	**13.3**	ug/L	0.50	0.28	25	04/10/20 07:20	04/13/20 17:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	04/10/20 07:20	04/13/20 17:54	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		04/14/20 01:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		04/14/20 01:55	994-05-8	
Benzene	**3340**	ug/L	250	87.0	50		04/14/20 01:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		04/14/20 01:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		04/14/20 01:55	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		04/14/20 01:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	103	50		04/14/20 01:55	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		04/14/20 01:55	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		04/14/20 01:55	64-17-5	
Ethylbenzene	**609**	ug/L	250	92.0	50		04/14/20 01:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		04/14/20 01:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		04/14/20 01:55	1634-04-4	
Naphthalene	**174J**	ug/L	250	104	50		04/14/20 01:55	91-20-3	
Toluene	**6990**	ug/L	250	100	50		04/14/20 01:55	108-88-3	
Xylene (Total)	**3110**	ug/L	250	250	50		04/14/20 01:55	1330-20-7	
m&p-Xylene	**2190**	ug/L	500	206	50		04/14/20 01:55	179601-23-1	
o-Xylene	**923**	ug/L	250	102	50		04/14/20 01:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		50		04/14/20 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		50		04/14/20 01:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130		50		04/14/20 01:55	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-12 **Lab ID: 92473149005** Collected: 04/07/20 11:36 Received: 04/08/20 08:40 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)	**14.7**	ug/L	0.49	0.28	25	04/10/20 07:20	04/13/20 18:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	04/10/20 07:20	04/13/20 18:07	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		04/14/20 02:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		04/14/20 02:50	994-05-8	
Benzene	**3090**	ug/L	250	87.0	50		04/14/20 02:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		04/14/20 02:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		04/14/20 02:50	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		04/14/20 02:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	103	50		04/14/20 02:50	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		04/14/20 02:50	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		04/14/20 02:50	64-17-5	
Ethylbenzene	**628**	ug/L	250	92.0	50		04/14/20 02:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		04/14/20 02:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		04/14/20 02:50	1634-04-4	
Naphthalene	**213J**	ug/L	250	104	50		04/14/20 02:50	91-20-3	
Toluene	**9320**	ug/L	250	100	50		04/14/20 02:50	108-88-3	
Xylene (Total)	**3130**	ug/L	250	250	50		04/14/20 02:50	1330-20-7	
m&p-Xylene	**1930**	ug/L	500	206	50		04/14/20 02:50	179601-23-1	
o-Xylene	**1200**	ug/L	250	102	50		04/14/20 02:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		50		04/14/20 02:50	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		50		04/14/20 02:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130		50		04/14/20 02:50	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-13 **Lab ID: 92473149006** Collected: 04/07/20 11:41 Received: 04/08/20 08:40 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)	**16.7**	ug/L	0.49	0.28	25	04/10/20 07:20	04/13/20 18:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	04/10/20 07:20	04/13/20 18:19	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	2500	1640	25		04/14/20 17:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	76.0	25		04/14/20 17:38	994-05-8	
Benzene	**1050**	ug/L	125	43.5	25		04/14/20 17:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1350	25		04/14/20 17:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	2280	25		04/14/20 17:38	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	602	25		04/14/20 17:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	51.5	25		04/14/20 17:38	107-06-2	
Diisopropyl ether	ND	ug/L	125	87.2	25		04/14/20 17:38	108-20-3	
Ethanol	ND	ug/L	5000	3600	25		04/14/20 17:38	64-17-5	
Ethylbenzene	**260**	ug/L	125	46.0	25		04/14/20 17:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	212	25		04/14/20 17:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	77.5	25		04/14/20 17:38	1634-04-4	
Naphthalene	**146**	ug/L	125	52.2	25		04/14/20 17:38	91-20-3	
Toluene	**2770**	ug/L	125	50.2	25		04/14/20 17:38	108-88-3	
Xylene (Total)	**1700**	ug/L	125	125	25		04/14/20 17:38	1330-20-7	
m&p-Xylene	**1180**	ug/L	250	103	25		04/14/20 17:38	179601-23-1	
o-Xylene	**526**	ug/L	125	51.0	25		04/14/20 17:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		25		04/14/20 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		25		04/14/20 17:38	17060-07-0	
Toluene-d8 (S)	102	%	70-130		25		04/14/20 17:38	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-19R **Lab ID: 92473149007** Collected: 04/07/20 11:07 Received: 04/08/20 08:40 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)	**0.089**	ug/L	0.020	0.011	1	04/10/20 07:20	04/11/20 00:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	04/10/20 07:20	04/11/20 00:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/10/20 18:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/10/20 18:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/10/20 18:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/10/20 18:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/10/20 18:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/10/20 18:19	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/10/20 18:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/10/20 18:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/10/20 18:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/10/20 18:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/10/20 18:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/10/20 18:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/10/20 18:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/10/20 18:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/10/20 18:19	1330-20-7	
m&p-Xylene	**8.3J**	ug/L	10.0	4.1	1		04/10/20 18:19	179601-23-1	
o-Xylene	**4.6J**	ug/L	5.0	2.0	1		04/10/20 18:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/10/20 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		04/10/20 18:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/10/20 18:19	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-20 **Lab ID: 92473149008** Collected: 04/07/20 12:01 Received: 04/08/20 08:40 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)	**1.1**	ug/L	0.050	0.029	2.5	04/10/20 07:20	04/13/20 18:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	60-140		2.5	04/10/20 07:20	04/13/20 18:31	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	250	164	2.5		04/13/20 23:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	7.6	2.5		04/13/20 23:12	994-05-8	
Benzene	**316**	ug/L	12.5	4.4	2.5		04/13/20 23:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	135	2.5		04/13/20 23:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	228	2.5		04/13/20 23:12	75-65-0	
tert-Butyl Formate	ND	ug/L	125	60.2	2.5		04/13/20 23:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	5.2	2.5		04/13/20 23:12	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	8.7	2.5		04/13/20 23:12	108-20-3	
Ethanol	ND	ug/L	500	360	2.5		04/13/20 23:12	64-17-5	
Ethylbenzene	**83.3**	ug/L	12.5	4.6	2.5		04/13/20 23:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	21.2	2.5		04/13/20 23:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	12.5	7.8	2.5		04/13/20 23:12	1634-04-4	
Naphthalene	**60.5**	ug/L	12.5	5.2	2.5		04/13/20 23:12	91-20-3	
Toluene	**15.4**	ug/L	12.5	5.0	2.5		04/13/20 23:12	108-88-3	
Xylene (Total)	**546**	ug/L	12.5	12.5	2.5		04/13/20 23:12	1330-20-7	
m&p-Xylene	**415**	ug/L	25.0	10.3	2.5		04/13/20 23:12	179601-23-1	
o-Xylene	**131**	ug/L	12.5	5.1	2.5		04/13/20 23:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2.5		04/13/20 23:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		2.5		04/13/20 23:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		2.5		04/13/20 23:12	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-21R **Lab ID: 92473149009** Collected: 04/07/20 11:50 Received: 04/08/20 08:40 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	0.012	1	04/10/20 07:20	04/11/20 00:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	04/10/20 07:20	04/11/20 00:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/10/20 19:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/10/20 19:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/10/20 19:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/10/20 19:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/10/20 19:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/10/20 19:50	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/10/20 19:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/10/20 19:50	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/10/20 19:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/10/20 19:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/10/20 19:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/10/20 19:50	1634-04-4	
Naphthalene	**2.5J**	ug/L	5.0	2.1	1		04/10/20 19:50	91-20-3	
Toluene	**2.8J**	ug/L	5.0	2.0	1		04/10/20 19:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/10/20 19:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/10/20 19:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/10/20 19:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/10/20 19:50	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		04/10/20 19:50	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/10/20 19:50	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-22 **Lab ID: 92473149010** Collected: 04/07/20 12:50 Received: 04/08/20 08:40 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)	**29.0**	ug/L	2.0	1.1	100	04/10/20 07:20	04/13/20 18:44	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		100	04/10/20 07:20	04/13/20 18:44	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	4000	2620	40		04/14/20 00:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	122	40		04/14/20 00:43	994-05-8	
Benzene	**2550**	ug/L	200	69.6	40		04/14/20 00:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	2160	40		04/14/20 00:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	3640	40		04/14/20 00:43	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	964	40		04/14/20 00:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	200	82.4	40		04/14/20 00:43	107-06-2	
Diisopropyl ether	ND	ug/L	200	140	40		04/14/20 00:43	108-20-3	
Ethanol	ND	ug/L	8000	5760	40		04/14/20 00:43	64-17-5	
Ethylbenzene	**317**	ug/L	200	73.6	40		04/14/20 00:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	338	40		04/14/20 00:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	200	124	40		04/14/20 00:43	1634-04-4	
Naphthalene	**141J**	ug/L	200	83.6	40		04/14/20 00:43	91-20-3	
Toluene	**5790**	ug/L	200	80.4	40		04/14/20 00:43	108-88-3	M1
Xylene (Total)	**1820**	ug/L	200	200	40		04/14/20 00:43	1330-20-7	
m&p-Xylene	**1190**	ug/L	400	164	40		04/14/20 00:43	179601-23-1	
o-Xylene	**627**	ug/L	200	81.6	40		04/14/20 00:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		40		04/14/20 00:43	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		40		04/14/20 00:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		40		04/14/20 00:43	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-23 **Lab ID: 92473149011** Collected: 04/07/20 10:50 Received: 04/08/20 08:40 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	0.012	1	04/10/20 07:20	04/11/20 01:59	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	04/10/20 07:20	04/11/20 01:59	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/10/20 20:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/10/20 20:09	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/10/20 20:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/10/20 20:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/10/20 20:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/10/20 20:09	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/10/20 20:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/10/20 20:09	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/10/20 20:09	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/10/20 20:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/10/20 20:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/10/20 20:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/10/20 20:09	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/10/20 20:09	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/10/20 20:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/10/20 20:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/10/20 20:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/10/20 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		04/10/20 20:09	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		04/10/20 20:09	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-24 **Lab ID: 92473149012** Collected: 04/07/20 12:41 Received: 04/08/20 08:40 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)	**207**	ug/L	10.2	5.8	500	04/10/20 07:20	04/13/20 19:09	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		500	04/10/20 07:20	04/13/20 19:09	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**3500J**	ug/L	4000	2620	40		04/14/20 17:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	122	40		04/14/20 17:56	994-05-8	
Benzene	**6730**	ug/L	200	69.6	40		04/14/20 17:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	2160	40		04/14/20 17:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	3640	40		04/14/20 17:56	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	964	40		04/14/20 17:56	762-75-4	
1,2-Dichloroethane	**508**	ug/L	200	82.4	40		04/14/20 17:56	107-06-2	
Diisopropyl ether	**165J**	ug/L	200	140	40		04/14/20 17:56	108-20-3	
Ethanol	ND	ug/L	8000	5760	40		04/14/20 17:56	64-17-5	
Ethylbenzene	**486**	ug/L	200	73.6	40		04/14/20 17:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	338	40		04/14/20 17:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	200	124	40		04/14/20 17:56	1634-04-4	
Naphthalene	**187J**	ug/L	200	83.6	40		04/14/20 17:56	91-20-3	
Toluene	**6630**	ug/L	200	80.4	40		04/14/20 17:56	108-88-3	
Xylene (Total)	**3150**	ug/L	200	200	40		04/14/20 17:56	1330-20-7	
m&p-Xylene	**2140**	ug/L	400	164	40		04/14/20 17:56	179601-23-1	
o-Xylene	**1010**	ug/L	200	81.6	40		04/14/20 17:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		40		04/14/20 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		40		04/14/20 17:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130		40		04/14/20 17:56	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-25 **Lab ID: 92473149013** Collected: 04/07/20 15:32 Received: 04/08/20 08:40 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	0.012	1	04/10/20 07:20	04/11/20 02:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	04/10/20 07:20	04/11/20 02:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/10/20 20:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/10/20 20:27	994-05-8	
Benzene	**2.5J**	ug/L	5.0	1.7	1		04/10/20 20:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/10/20 20:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/10/20 20:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/10/20 20:27	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/10/20 20:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/10/20 20:27	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/10/20 20:27	64-17-5	
Ethylbenzene	**13.9**	ug/L	5.0	1.8	1		04/10/20 20:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/10/20 20:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/10/20 20:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/10/20 20:27	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/10/20 20:27	108-88-3	
Xylene (Total)	**70.2**	ug/L	5.0	5.0	1		04/10/20 20:27	1330-20-7	
m&p-Xylene	**56.3**	ug/L	10.0	4.1	1		04/10/20 20:27	179601-23-1	
o-Xylene	**13.9**	ug/L	5.0	2.0	1		04/10/20 20:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/10/20 20:27	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		04/10/20 20:27	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		04/10/20 20:27	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-26 **Lab ID: 92473149014** Collected: 04/07/20 15:31 Received: 04/08/20 08:40 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)	**109**	ug/L	5.0	2.9	250	04/10/20 07:20	04/13/20 19:21	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		250	04/10/20 07:20	04/13/20 19:21	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	12500	8200	125		04/14/20 19:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	380	125		04/14/20 19:07	994-05-8	
Benzene	**7130**	ug/L	625	218	125		04/14/20 19:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6740	125		04/14/20 19:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	11400	125		04/14/20 19:07	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	3010	125		04/14/20 19:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	625	258	125		04/14/20 19:07	107-06-2	
Diisopropyl ether	ND	ug/L	625	436	125		04/14/20 19:07	108-20-3	
Ethanol	ND	ug/L	25000	18000	125		04/14/20 19:07	64-17-5	
Ethylbenzene	**1320**	ug/L	625	230	125		04/14/20 19:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	1060	125		04/14/20 19:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	625	388	125		04/14/20 19:07	1634-04-4	
Naphthalene	**991**	ug/L	625	261	125		04/14/20 19:07	91-20-3	
Toluene	**21100**	ug/L	625	251	125		04/14/20 19:07	108-88-3	
Xylene (Total)	**10200**	ug/L	625	625	125		04/14/20 19:07	1330-20-7	
m&p-Xylene	**6830**	ug/L	1250	514	125		04/14/20 19:07	179601-23-1	
o-Xylene	**3420**	ug/L	625	255	125		04/14/20 19:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		125		04/14/20 19:07	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		125		04/14/20 19:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130		125		04/14/20 19:07	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-27 **Lab ID: 92473149015** Collected: 04/07/20 10:52 Received: 04/08/20 08:40 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	0.011	1	04/10/20 07:20	04/11/20 03:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	04/10/20 07:20	04/11/20 03:10	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/10/20 20:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/10/20 20:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/10/20 20:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/10/20 20:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/10/20 20:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/10/20 20:45	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/10/20 20:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/10/20 20:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/10/20 20:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/10/20 20:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/10/20 20:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/10/20 20:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/10/20 20:45	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/10/20 20:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/10/20 20:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/10/20 20:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/10/20 20:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/10/20 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		04/10/20 20:45	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/10/20 20:45	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-28 **Lab ID: 92473149016** Collected: 04/07/20 10:10 Received: 04/08/20 08:40 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	0.011	1	04/10/20 07:20	04/11/20 03:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	04/10/20 07:20	04/11/20 03:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/10/20 21:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/10/20 21:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/10/20 21:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/10/20 21:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/10/20 21:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/10/20 21:04	762-75-4	R1,v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/10/20 21:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/10/20 21:04	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/10/20 21:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/10/20 21:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/10/20 21:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/10/20 21:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/10/20 21:04	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/10/20 21:04	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/10/20 21:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/10/20 21:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/10/20 21:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/10/20 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		04/10/20 21:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/10/20 21:04	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: MW-29 **Lab ID: 92473149017** Collected: 04/07/20 10:36 Received: 04/08/20 08:40 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	0.011	1	04/10/20 07:20	04/11/20 03:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/10/20 07:20	04/11/20 03:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		04/14/20 02:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		04/14/20 02:13	994-05-8	
Benzene	**4290**	ug/L	250	87.0	50		04/14/20 02:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		04/14/20 02:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		04/14/20 02:13	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		04/14/20 02:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	103	50		04/14/20 02:13	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		04/14/20 02:13	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		04/14/20 02:13	64-17-5	
Ethylbenzene	**907**	ug/L	250	92.0	50		04/14/20 02:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		04/14/20 02:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		04/14/20 02:13	1634-04-4	
Naphthalene	**377**	ug/L	250	104	50		04/14/20 02:13	91-20-3	
Toluene	**5570**	ug/L	250	100	50		04/14/20 02:13	108-88-3	
Xylene (Total)	**5300**	ug/L	250	250	50		04/14/20 02:13	1330-20-7	
m&p-Xylene	**3780**	ug/L	500	206	50		04/14/20 02:13	179601-23-1	
o-Xylene	**1530**	ug/L	250	102	50		04/14/20 02:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		50		04/14/20 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		50		04/14/20 02:13	17060-07-0	
Toluene-d8 (S)	98	%	70-130		50		04/14/20 02:13	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: DW-1 **Lab ID: 92473149018** Collected: 04/07/20 11:21 Received: 04/08/20 08:40 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)	**9.2**	ug/L	0.40	0.23	20	04/10/20 07:20	04/13/20 19:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		20	04/10/20 07:20	04/13/20 19:33	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	2000	1310	20		04/14/20 01:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		04/14/20 01:01	994-05-8	
Benzene	**2550**	ug/L	100	34.8	20		04/14/20 01:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		04/14/20 01:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		04/14/20 01:01	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	482	20		04/14/20 01:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	41.2	20		04/14/20 01:01	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		04/14/20 01:01	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		04/14/20 01:01	64-17-5	
Ethylbenzene	**209**	ug/L	100	36.8	20		04/14/20 01:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		04/14/20 01:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		04/14/20 01:01	1634-04-4	
Naphthalene	**114**	ug/L	100	41.8	20		04/14/20 01:01	91-20-3	
Toluene	**1660**	ug/L	100	40.2	20		04/14/20 01:01	108-88-3	
Xylene (Total)	**1140**	ug/L	100	100	20		04/14/20 01:01	1330-20-7	
m&p-Xylene	**768**	ug/L	200	82.2	20		04/14/20 01:01	179601-23-1	
o-Xylene	**373**	ug/L	100	40.8	20		04/14/20 01:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		20		04/14/20 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		20		04/14/20 01:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		20		04/14/20 01:01	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: DW-2 **Lab ID: 92473149019** Collected: 04/07/20 10:19 Received: 04/08/20 08:40 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)	**79.2**	ug/L	4.0	2.3	200	04/10/20 07:20	04/13/20 19:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		200	04/10/20 07:20	04/13/20 19:45	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	10000	6560	100		04/14/20 18:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	304	100		04/14/20 18:31	994-05-8	
Benzene	**12800**	ug/L	500	174	100		04/14/20 18:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5390	100		04/14/20 18:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	9100	100		04/14/20 18:31	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2410	100		04/14/20 18:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	206	100		04/14/20 18:31	107-06-2	
Diisopropyl ether	ND	ug/L	500	349	100		04/14/20 18:31	108-20-3	
Ethanol	ND	ug/L	20000	14400	100		04/14/20 18:31	64-17-5	
Ethylbenzene	**1050**	ug/L	500	184	100		04/14/20 18:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	846	100		04/14/20 18:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	310	100		04/14/20 18:31	1634-04-4	
Naphthalene	**401J**	ug/L	500	209	100		04/14/20 18:31	91-20-3	
Toluene	**10100**	ug/L	500	201	100		04/14/20 18:31	108-88-3	
Xylene (Total)	**6090**	ug/L	500	500	100		04/14/20 18:31	1330-20-7	
m&p-Xylene	**4430**	ug/L	1000	411	100		04/14/20 18:31	179601-23-1	
o-Xylene	**1660**	ug/L	500	204	100		04/14/20 18:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		100		04/14/20 18:31	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		100		04/14/20 18:31	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		04/14/20 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: DW-3 **Lab ID: 92473149020** Collected: 04/07/20 10:36 Received: 04/08/20 08:40 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)	**1.6**	ug/L	0.050	0.029	2.5	04/10/20 07:20	04/13/20 19:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		2.5	04/10/20 07:20	04/13/20 19:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	250	164	2.5		04/14/20 16:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	7.6	2.5		04/14/20 16:08	994-05-8	
Benzene	**307**	ug/L	12.5	4.4	2.5		04/14/20 16:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	135	2.5		04/14/20 16:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	228	2.5		04/14/20 16:08	75-65-0	
tert-Butyl Formate	ND	ug/L	125	60.2	2.5		04/14/20 16:08	762-75-4	
1,2-Dichloroethane	**6.5J**	ug/L	12.5	5.2	2.5		04/14/20 16:08	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	8.7	2.5		04/14/20 16:08	108-20-3	
Ethanol	ND	ug/L	500	360	2.5		04/14/20 16:08	64-17-5	
Ethylbenzene	ND	ug/L	12.5	4.6	2.5		04/14/20 16:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	21.2	2.5		04/14/20 16:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	12.5	7.8	2.5		04/14/20 16:08	1634-04-4	
Naphthalene	**12.0J**	ug/L	12.5	5.2	2.5		04/14/20 16:08	91-20-3	
Toluene	ND	ug/L	12.5	5.0	2.5		04/14/20 16:08	108-88-3	
Xylene (Total)	**237**	ug/L	12.5	12.5	2.5		04/14/20 16:08	1330-20-7	
m&p-Xylene	**87.5**	ug/L	25.0	10.3	2.5		04/14/20 16:08	179601-23-1	
o-Xylene	**149**	ug/L	12.5	5.1	2.5		04/14/20 16:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		2.5		04/14/20 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		2.5		04/14/20 16:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130		2.5		04/14/20 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: RW-1 **Lab ID: 92473149021** Collected: 04/07/20 14:00 Received: 04/08/20 08:40 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)	**125**	ug/L	5.1	2.9	250	04/10/20 07:20	04/13/20 20:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		250	04/10/20 07:20	04/13/20 20:10	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	20000	13100	200		04/14/20 19:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	608	200		04/14/20 19:25	994-05-8	
Benzene	**10200**	ug/L	1000	348	200		04/14/20 19:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10800	200		04/14/20 19:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	18200	200		04/14/20 19:25	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	4820	200		04/14/20 19:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	412	200		04/14/20 19:25	107-06-2	
Diisopropyl ether	ND	ug/L	1000	698	200		04/14/20 19:25	108-20-3	
Ethanol	ND	ug/L	40000	28800	200		04/14/20 19:25	64-17-5	
Ethylbenzene	**2830**	ug/L	1000	368	200		04/14/20 19:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	1690	200		04/14/20 19:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	620	200		04/14/20 19:25	1634-04-4	
Naphthalene	**887J**	ug/L	1000	418	200		04/14/20 19:25	91-20-3	
Toluene	**33900**	ug/L	1000	402	200		04/14/20 19:25	108-88-3	
Xylene (Total)	**16300**	ug/L	1000	1000	200		04/14/20 19:25	1330-20-7	
m&p-Xylene	**11100**	ug/L	2000	822	200		04/14/20 19:25	179601-23-1	
o-Xylene	**5260**	ug/L	1000	408	200		04/14/20 19:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		200		04/14/20 19:25	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		200		04/14/20 19:25	17060-07-0	
Toluene-d8 (S)	103	%	70-130		200		04/14/20 19:25	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: RW-2 **Lab ID: 92473149022** Collected: 04/07/20 14:38 Received: 04/08/20 08:40 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	0.011	1	04/10/20 07:20	04/11/20 04:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	04/10/20 07:20	04/11/20 04:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		04/14/20 15:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		04/14/20 15:50	994-05-8	
Benzene	ND	ug/L	10.0	3.5	2		04/14/20 15:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		04/14/20 15:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		04/14/20 15:50	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		04/14/20 15:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		04/14/20 15:50	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		04/14/20 15:50	108-20-3	
Ethanol	ND	ug/L	400	288	2		04/14/20 15:50	64-17-5	
Ethylbenzene	**121**	ug/L	10.0	3.7	2		04/14/20 15:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		04/14/20 15:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		04/14/20 15:50	1634-04-4	
Naphthalene	**52.5**	ug/L	10.0	4.2	2		04/14/20 15:50	91-20-3	
Toluene	**34.0**	ug/L	10.0	4.0	2		04/14/20 15:50	108-88-3	
Xylene (Total)	**563**	ug/L	10.0	10.0	2		04/14/20 15:50	1330-20-7	
m&p-Xylene	**491**	ug/L	20.0	8.2	2		04/14/20 15:50	179601-23-1	
o-Xylene	**72.3**	ug/L	10.0	4.1	2		04/14/20 15:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2		04/14/20 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		2		04/14/20 15:50	17060-07-0	
Toluene-d8 (S)	99	%	70-130		2		04/14/20 15:50	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: RW-3 **Lab ID: 92473149023** Collected: 04/07/20 13:22 Received: 04/08/20 08:40 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)	**0.81**	ug/L	0.040	0.023	2	04/10/20 07:20	04/14/20 11:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		2	04/10/20 07:20	04/14/20 11:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	4000	2620	40		04/14/20 18:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	122	40		04/14/20 18:13	994-05-8	
Benzene	**449**	ug/L	200	69.6	40		04/14/20 18:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	2160	40		04/14/20 18:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	3640	40		04/14/20 18:13	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	964	40		04/14/20 18:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	200	82.4	40		04/14/20 18:13	107-06-2	
Diisopropyl ether	ND	ug/L	200	140	40		04/14/20 18:13	108-20-3	
Ethanol	ND	ug/L	8000	5760	40		04/14/20 18:13	64-17-5	
Ethylbenzene	**2980**	ug/L	200	73.6	40		04/14/20 18:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	338	40		04/14/20 18:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	200	124	40		04/14/20 18:13	1634-04-4	
Naphthalene	**471**	ug/L	200	83.6	40		04/14/20 18:13	91-20-3	
Toluene	**2090**	ug/L	200	80.4	40		04/14/20 18:13	108-88-3	
Xylene (Total)	**13100**	ug/L	200	200	40		04/14/20 18:13	1330-20-7	
m&p-Xylene	**10700**	ug/L	400	164	40		04/14/20 18:13	179601-23-1	
o-Xylene	**2460**	ug/L	200	81.6	40		04/14/20 18:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		40		04/14/20 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		40		04/14/20 18:13	17060-07-0	
Toluene-d8 (S)	105	%	70-130		40		04/14/20 18:13	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: RW-4 **Lab ID: 92473149024** Collected: 04/07/20 14:32 Received: 04/08/20 08:40 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)	**40.7**	ug/L	20.3	11.6	1000	04/10/20 07:20	04/13/20 20:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		1000	04/10/20 07:20	04/13/20 20:23	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	20000	13100	200		04/14/20 19:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	608	200		04/14/20 19:43	994-05-8	
Benzene	**15400**	ug/L	1000	348	200		04/14/20 19:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10800	200		04/14/20 19:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	18200	200		04/14/20 19:43	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	4820	200		04/14/20 19:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	412	200		04/14/20 19:43	107-06-2	
Diisopropyl ether	ND	ug/L	1000	698	200		04/14/20 19:43	108-20-3	
Ethanol	ND	ug/L	40000	28800	200		04/14/20 19:43	64-17-5	
Ethylbenzene	**2060**	ug/L	1000	368	200		04/14/20 19:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	1690	200		04/14/20 19:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	620	200		04/14/20 19:43	1634-04-4	
Naphthalene	**764J**	ug/L	1000	418	200		04/14/20 19:43	91-20-3	
Toluene	**29000**	ug/L	1000	402	200		04/14/20 19:43	108-88-3	
Xylene (Total)	**13200**	ug/L	1000	1000	200		04/14/20 19:43	1330-20-7	
m&p-Xylene	**9030**	ug/L	2000	822	200		04/14/20 19:43	179601-23-1	
o-Xylene	**4190**	ug/L	1000	408	200		04/14/20 19:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		200		04/14/20 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		200		04/14/20 19:43	17060-07-0	
Toluene-d8 (S)	102	%	70-130		200		04/14/20 19:43	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: RW-5 **Lab ID: 92473149025** Collected: 04/07/20 13:36 Received: 04/08/20 08:40 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)	**230**	ug/L	9.8	5.6	500	04/10/20 07:20	04/13/20 20:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		500	04/10/20 07:20	04/13/20 20:35	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	25000	16400	250		04/14/20 20:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	760	250		04/14/20 20:55	994-05-8	
Benzene	**16600**	ug/L	1250	435	250		04/14/20 20:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	13500	250		04/14/20 20:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	22800	250		04/14/20 20:55	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	6020	250		04/14/20 20:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	515	250		04/14/20 20:55	107-06-2	
Diisopropyl ether	ND	ug/L	1250	872	250		04/14/20 20:55	108-20-3	
Ethanol	ND	ug/L	50000	36000	250		04/14/20 20:55	64-17-5	
Ethylbenzene	**1740**	ug/L	1250	460	250		04/14/20 20:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	2120	250		04/14/20 20:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	775	250		04/14/20 20:55	1634-04-4	
Naphthalene	**702J**	ug/L	1250	522	250		04/14/20 20:55	91-20-3	
Toluene	**27400**	ug/L	1250	502	250		04/14/20 20:55	108-88-3	
Xylene (Total)	**10800**	ug/L	1250	1250	250		04/14/20 20:55	1330-20-7	
m&p-Xylene	**7020**	ug/L	2500	1030	250		04/14/20 20:55	179601-23-1	
o-Xylene	**3810**	ug/L	1250	510	250		04/14/20 20:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		250		04/14/20 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		250		04/14/20 20:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130		250		04/14/20 20:55	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: EP-4 **Lab ID: 92473149026** Collected: 04/07/20 15:09 Received: 04/08/20 08:40 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	0.012	1	04/10/20 07:20	04/11/20 05:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	04/10/20 07:20	04/11/20 05:19	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	1000	656	10		04/15/20 14:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		04/15/20 14:18	994-05-8	
Benzene	**21.2J**	ug/L	50.0	17.4	10		04/15/20 14:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		04/15/20 14:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		04/15/20 14:18	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		04/15/20 14:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		04/15/20 14:18	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		04/15/20 14:18	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		04/15/20 14:18	64-17-5	
Ethylbenzene	**606**	ug/L	50.0	18.4	10		04/15/20 14:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		04/15/20 14:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		04/15/20 14:18	1634-04-4	
Naphthalene	**270**	ug/L	50.0	20.9	10		04/15/20 14:18	91-20-3	
Toluene	**633**	ug/L	50.0	20.1	10		04/15/20 14:18	108-88-3	IH
Xylene (Total)	**3250**	ug/L	50.0	50.0	10		04/15/20 14:18	1330-20-7	
m&p-Xylene	**2370**	ug/L	100	41.1	10		04/15/20 14:18	179601-23-1	
o-Xylene	**877**	ug/L	50.0	20.4	10		04/15/20 14:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		04/15/20 14:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		04/15/20 14:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		04/15/20 14:18	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: EP-12 **Lab ID: 92473149027** Collected: 04/07/20 12:27 Received: 04/08/20 08:40 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)	**40.8**	ug/L	2.0	1.1	100	04/10/20 07:20	04/13/20 20:47	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		100	04/10/20 07:20	04/13/20 20:47	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		04/13/20 17:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		04/13/20 17:58	994-05-8	
Benzene	**2890**	ug/L	250	87.0	50		04/13/20 17:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		04/13/20 17:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		04/13/20 17:58	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		04/13/20 17:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	103	50		04/13/20 17:58	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		04/13/20 17:58	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		04/13/20 17:58	64-17-5	
Ethylbenzene	**428**	ug/L	250	92.0	50		04/13/20 17:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		04/13/20 17:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		04/13/20 17:58	1634-04-4	
Naphthalene	**599**	ug/L	250	104	50		04/13/20 17:58	91-20-3	
Toluene	**6410**	ug/L	250	100	50		04/13/20 17:58	108-88-3	
Xylene (Total)	**6910**	ug/L	250	250	50		04/13/20 17:58	1330-20-7	
m&p-Xylene	**4640**	ug/L	500	206	50		04/13/20 17:58	179601-23-1	
o-Xylene	**2270**	ug/L	250	102	50		04/13/20 17:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		50		04/13/20 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		50		04/13/20 17:58	17060-07-0	
Toluene-d8 (S)	103	%	70-130		50		04/13/20 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: EP-16 **Lab ID: 92473149028** Collected: 04/07/20 12:44 Received: 04/08/20 08:40 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)	**91.9**	ug/L	4.1	2.4	200	04/10/20 07:20	04/13/20 20:59	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		200	04/10/20 07:20	04/13/20 20:59	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		04/13/20 18:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		04/13/20 18:16	994-05-8	
Benzene	**1900**	ug/L	250	87.0	50		04/13/20 18:16	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		04/13/20 18:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		04/13/20 18:16	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		04/13/20 18:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	103	50		04/13/20 18:16	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		04/13/20 18:16	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		04/13/20 18:16	64-17-5	
Ethylbenzene	**375**	ug/L	250	92.0	50		04/13/20 18:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		04/13/20 18:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		04/13/20 18:16	1634-04-4	
Naphthalene	**609**	ug/L	250	104	50		04/13/20 18:16	91-20-3	
Toluene	**5170**	ug/L	250	100	50		04/13/20 18:16	108-88-3	M1
Xylene (Total)	**7160**	ug/L	250	250	50		04/13/20 18:16	1330-20-7	MS
m&p-Xylene	**4770**	ug/L	500	206	50		04/13/20 18:16	179601-23-1	M1
o-Xylene	**2390**	ug/L	250	102	50		04/13/20 18:16	95-47-6	M1
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		50		04/13/20 18:16	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		50		04/13/20 18:16	17060-07-0	
Toluene-d8 (S)	103	%	70-130		50		04/13/20 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: EP-20 **Lab ID: 92473149029** Collected: 04/07/20 12:58 Received: 04/08/20 08:40 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)	**182**	ug/L	8.0	4.6	400	04/10/20 07:20	04/13/20 21:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		400	04/10/20 07:20	04/13/20 21:12	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	10000	6560	100		04/14/20 18:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	304	100		04/14/20 18:49	994-05-8	
Benzene	**6050**	ug/L	500	174	100		04/14/20 18:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5390	100		04/14/20 18:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	9100	100		04/14/20 18:49	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2410	100		04/14/20 18:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	206	100		04/14/20 18:49	107-06-2	
Diisopropyl ether	ND	ug/L	500	349	100		04/14/20 18:49	108-20-3	
Ethanol	ND	ug/L	20000	14400	100		04/14/20 18:49	64-17-5	
Ethylbenzene	**691**	ug/L	500	184	100		04/14/20 18:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	846	100		04/14/20 18:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	310	100		04/14/20 18:49	1634-04-4	
Naphthalene	**817**	ug/L	500	209	100		04/14/20 18:49	91-20-3	
Toluene	**12500**	ug/L	500	201	100		04/14/20 18:49	108-88-3	
Xylene (Total)	**9870**	ug/L	500	500	100		04/14/20 18:49	1330-20-7	
m&p-Xylene	**6390**	ug/L	1000	411	100		04/14/20 18:49	179601-23-1	
o-Xylene	**3480**	ug/L	500	204	100		04/14/20 18:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		100		04/14/20 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		100		04/14/20 18:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		04/14/20 18:49	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: SW-1 **Lab ID: 92473149030** Collected: 04/07/20 15:40 Received: 04/08/20 08:40 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	0.012	1	04/13/20 08:50	04/13/20 22:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/13/20 08:50	04/13/20 22:14	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		04/14/20 03:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		04/14/20 03:02	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		04/14/20 03:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/14/20 03:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/14/20 03:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/14/20 03:02	762-75-4	IH,L1, v1
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		04/14/20 03:02	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/14/20 03:02	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/14/20 03:02	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		04/14/20 03:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/14/20 03:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		04/14/20 03:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		04/14/20 03:02	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		04/14/20 03:02	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		04/14/20 03:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		04/14/20 03:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		04/14/20 03:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/14/20 03:02	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		04/14/20 03:02	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/14/20 03:02	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: DUP-1 **Lab ID: 92473149031** Collected: 04/07/20 11:41 Received: 04/08/20 08:40 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)	**15.7**	ug/L	0.52	0.30	25	04/13/20 08:50	04/14/20 10:40	106-93-4	M1
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	04/13/20 08:50	04/14/20 10:40	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	2000	1310	20		04/14/20 17:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		04/14/20 17:02	994-05-8	
Benzene	**1250**	ug/L	100	34.8	20		04/14/20 17:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		04/14/20 17:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		04/14/20 17:02	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	482	20		04/14/20 17:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	41.2	20		04/14/20 17:02	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		04/14/20 17:02	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		04/14/20 17:02	64-17-5	
Ethylbenzene	**297**	ug/L	100	36.8	20		04/14/20 17:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		04/14/20 17:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		04/14/20 17:02	1634-04-4	
Naphthalene	**147**	ug/L	100	41.8	20		04/14/20 17:02	91-20-3	
Toluene	**3060**	ug/L	100	40.2	20		04/14/20 17:02	108-88-3	
Xylene (Total)	**1890**	ug/L	100	100	20		04/14/20 17:02	1330-20-7	
m&p-Xylene	**1310**	ug/L	200	82.2	20		04/14/20 17:02	179601-23-1	
o-Xylene	**573**	ug/L	100	40.8	20		04/14/20 17:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		20		04/14/20 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		20		04/14/20 17:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130		20		04/14/20 17:02	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: DUP-2 **Lab ID: 92473149032** Collected: 04/07/20 12:21 Received: 04/08/20 08:40 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)	**102**	ug/L	5.0	2.9	250	04/13/20 08:50	04/14/20 10:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		250	04/13/20 08:50	04/14/20 10:53	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	20000	13100	200		04/14/20 20:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	608	200		04/14/20 20:01	994-05-8	
Benzene	**12800**	ug/L	1000	348	200		04/14/20 20:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10800	200		04/14/20 20:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	18200	200		04/14/20 20:01	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	4820	200		04/14/20 20:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	412	200		04/14/20 20:01	107-06-2	
Diisopropyl ether	ND	ug/L	1000	698	200		04/14/20 20:01	108-20-3	
Ethanol	ND	ug/L	40000	28800	200		04/14/20 20:01	64-17-5	
Ethylbenzene	**2160**	ug/L	1000	368	200		04/14/20 20:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	1690	200		04/14/20 20:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	620	200		04/14/20 20:01	1634-04-4	
Naphthalene	**595J**	ug/L	1000	418	200		04/14/20 20:01	91-20-3	
Toluene	**30800**	ug/L	1000	402	200		04/14/20 20:01	108-88-3	
Xylene (Total)	**11200**	ug/L	1000	1000	200		04/14/20 20:01	1330-20-7	
m&p-Xylene	**7740**	ug/L	2000	822	200		04/14/20 20:01	179601-23-1	
o-Xylene	**3440**	ug/L	1000	408	200		04/14/20 20:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		200		04/14/20 20:01	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		200		04/14/20 20:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		200		04/14/20 20:01	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: FB **Lab ID: 92473149033** Collected: 04/07/20 15:48 Received: 04/08/20 08:40 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	0.011	1	04/13/20 08:50	04/13/20 23:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	04/13/20 08:50	04/13/20 23:28	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/13/20 21:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/13/20 21:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/13/20 21:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/13/20 21:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/13/20 21:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/13/20 21:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/13/20 21:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/13/20 21:42	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/13/20 21:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/13/20 21:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/13/20 21:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/13/20 21:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/13/20 21:42	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/13/20 21:42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/13/20 21:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/13/20 21:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/13/20 21:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/13/20 21:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		04/13/20 21:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/13/20 21:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: TB-1 **Lab ID: 92473149034** Collected: 04/07/20 08:00 Received: 04/08/20 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/13/20 22:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/13/20 22:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/13/20 22:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/13/20 22:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/13/20 22:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/13/20 22:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/13/20 22:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/13/20 22:00	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/13/20 22:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/13/20 22:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/13/20 22:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/13/20 22:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/13/20 22:00	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/13/20 22:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/13/20 22:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/13/20 22:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/13/20 22:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		04/13/20 22:00	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/13/20 22:00	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		04/13/20 22:00	2037-26-5	

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ANALYTICAL RESULTS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Sample: TB-2 **Lab ID: 92473149035** Collected: 04/07/20 08:00 Received: 04/08/20 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/13/20 21:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/13/20 21:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/13/20 21:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/13/20 21:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/13/20 21:17	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/13/20 21:17	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/13/20 21:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/13/20 21:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/13/20 21:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/13/20 21:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/13/20 21:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/13/20 21:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/13/20 21:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/13/20 21:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/13/20 21:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/13/20 21:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/13/20 21:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/13/20 21:17	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		04/13/20 21:17	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/13/20 21:17	2037-26-5	

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535849
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92473149030

METHOD BLANK: 2858986 Matrix: Water
Associated Lab Samples: 92473149030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.34	04/13/20 23:37	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	04/13/20 23:37	
Benzene	ug/L	ND	1.0	0.15	04/13/20 23:37	
Diisopropyl ether	ug/L	ND	1.0	0.22	04/13/20 23:37	
Ethanol	ug/L	ND	200	98.8	04/13/20 23:37	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	04/13/20 23:37	
Ethylbenzene	ug/L	ND	1.0	0.26	04/13/20 23:37	
m&p-Xylene	ug/L	ND	2.0	0.41	04/13/20 23:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	04/13/20 23:37	
Naphthalene	ug/L	ND	1.0	0.35	04/13/20 23:37	
o-Xylene	ug/L	ND	1.0	0.22	04/13/20 23:37	
tert-Amyl Alcohol	ug/L	ND	100	53.9	04/13/20 23:37	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	04/13/20 23:37	
tert-Butyl Alcohol	ug/L	ND	100	27.3	04/13/20 23:37	
tert-Butyl Formate	ug/L	ND	50.0	24.7	04/13/20 23:37	IH,v1
Toluene	ug/L	ND	1.0	0.24	04/13/20 23:37	
Xylene (Total)	ug/L	ND	1.0	0.63	04/13/20 23:37	
1,2-Dichloroethane-d4 (S)	%	102	70-130		04/13/20 23:37	
4-Bromofluorobenzene (S)	%	106	70-130		04/13/20 23:37	
Toluene-d8 (S)	%	104	70-130		04/13/20 23:37	

LABORATORY CONTROL SAMPLE: 2858987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.2	106	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	51.0	102	70-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
Ethanol	ug/L	2000	2130	107	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	44.3	89	70-130	
m&p-Xylene	ug/L	100	90.7	91	70-130	
Methyl-tert-butyl ether	ug/L	50	55.0	110	70-130	
Naphthalene	ug/L	50	56.1	112	70-130	
o-Xylene	ug/L	50	46.1	92	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	526	105	70-130	
tert-Butyl Formate	ug/L	400	591	148	70-130	IH,L1,v1

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2858987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.6	97	70-130	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859601 2859602

Parameter	Units	92473124005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	23.6	23.1	118	116	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	390	400	97	100	39-157	3	30	
Benzene	ug/L	ND	20	20	23.7	23.0	118	115	70-151	3	30	
Diisopropyl ether	ug/L	ND	20	20	21.9	21.5	110	107	63-144	2	30	
Ethanol	ug/L	ND	800	800	910	717	114	90	39-176	24	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.4	40.7	104	102	66-137	2	30	
Ethylbenzene	ug/L	ND	20	20	22.0	20.7	110	103	66-153	6	30	
m&p-Xylene	ug/L	ND	40	40	43.3	40.9	108	102	69-152	6	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.5	22.0	112	110	54-156	2	30	
Naphthalene	ug/L	ND	20	20	20.8	19.4	104	97	61-148	7	30	
o-Xylene	ug/L	ND	20	20	21.5	20.2	108	101	70-148	6	30	
tert-Amyl Alcohol	ug/L	ND	400	400	421	453	105	113	54-153	7	30	
tert-Amylmethyl ether	ug/L	ND	40	40	44.3	43.1	111	108	69-139	3	30	
tert-Butyl Alcohol	ug/L	ND	200	200	246	282	123	141	43-188	14	30	
tert-Butyl Formate	ug/L	ND	160	160	79.7	ND	50	0	10-170		30	P5
Toluene	ug/L	ND	20	20	23.1	22.3	116	112	59-148	3	30	
Xylene (Total)	ug/L	ND	60	60	64.8	61.1	108	102	63-158	6	30	
1,2-Dichloroethane-d4 (S)	%						101	104	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						101	103	70-130			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535478
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149007, 92473149009, 92473149011, 92473149013, 92473149015, 92473149016

METHOD BLANK: 2857304 Matrix: Water
Associated Lab Samples: 92473149007, 92473149009, 92473149011, 92473149013, 92473149015, 92473149016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/10/20 18:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/10/20 18:00	
Benzene	ug/L	ND	5.0	1.7	04/10/20 18:00	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/10/20 18:00	
Ethanol	ug/L	ND	200	144	04/10/20 18:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/10/20 18:00	
Ethylbenzene	ug/L	ND	5.0	1.8	04/10/20 18:00	
m&p-Xylene	ug/L	ND	10.0	4.1	04/10/20 18:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/10/20 18:00	
Naphthalene	ug/L	ND	5.0	2.1	04/10/20 18:00	
o-Xylene	ug/L	ND	5.0	2.0	04/10/20 18:00	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/10/20 18:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/10/20 18:00	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/10/20 18:00	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/10/20 18:00	v2
Toluene	ug/L	ND	5.0	2.0	04/10/20 18:00	
Xylene (Total)	ug/L	ND	5.0	5.0	04/10/20 18:00	
1,2-Dichloroethane-d4 (S)	%	87	70-130		04/10/20 18:00	
4-Bromofluorobenzene (S)	%	100	70-130		04/10/20 18:00	
Toluene-d8 (S)	%	100	70-130		04/10/20 18:00	

LABORATORY CONTROL SAMPLE: 2857305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.3	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	968	97	70-130	
Benzene	ug/L	50	48.6	97	70-130	
Diisopropyl ether	ug/L	50	44.5	89	70-130	
Ethanol	ug/L	2000	1800	90	70-130	
Ethyl-tert-butyl ether	ug/L	100	88.4	88	70-130	
Ethylbenzene	ug/L	50	45.8	92	70-130	
m&p-Xylene	ug/L	100	93.7	94	70-130	
Methyl-tert-butyl ether	ug/L	50	46.8	94	70-130	
Naphthalene	ug/L	50	51.9	104	70-130	
o-Xylene	ug/L	50	47.7	95	70-130	
tert-Amyl Alcohol	ug/L	1000	902	90	70-130	
tert-Amylmethyl ether	ug/L	100	93.5	93	70-130	
tert-Butyl Alcohol	ug/L	500	385	77	70-130	
tert-Butyl Formate	ug/L	400	342	85	70-130	v3

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2857305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.4	93	70-130	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			85	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857306 2857307

Parameter	Units	92473149016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	22.5	21.9	112	110	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	385	357	96	89	39-157	8	30	
Benzene	ug/L	ND	20	20	22.3	23.3	111	116	70-151	5	30	
Diisopropyl ether	ug/L	ND	20	20	21.6	21.7	108	109	63-144	0	30	
Ethanol	ug/L	ND	800	800	806	816	101	102	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.5	41.7	104	104	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	20.7	20.8	103	104	66-153	0	30	
m&p-Xylene	ug/L	ND	40	40	41.8	42.2	104	105	69-152	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.1	21.9	111	109	54-156	1	30	
Naphthalene	ug/L	ND	20	20	23.3	22.5	117	112	61-148	4	30	
o-Xylene	ug/L	ND	20	20	21.6	21.6	108	108	70-148	0	30	
tert-Amyl Alcohol	ug/L	ND	400	400	396	405	99	101	54-153	2	30	
tert-Amylmethyl ether	ug/L	ND	40	40	42.2	43.2	106	108	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	245	256	123	128	43-188	4	30	
tert-Butyl Formate	ug/L	ND	160	160	90.0	62.0	56	39	10-170	37	30	R1
Toluene	ug/L	ND	20	20	20.8	21.7	101	106	59-148	4	30	
Xylene (Total)	ug/L	ND	60	60	63.4	63.7	106	106	63-158	0	30	
1,2-Dichloroethane-d4 (S)	%						98	98	70-130			
4-Bromofluorobenzene (S)	%						102	102	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535889
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149001, 92473149004, 92473149005, 92473149008, 92473149010, 92473149017, 92473149018, 92473149033, 92473149034

METHOD BLANK: 2859139 Matrix: Water
Associated Lab Samples: 92473149001, 92473149004, 92473149005, 92473149008, 92473149010, 92473149017, 92473149018, 92473149033, 92473149034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/13/20 21:24	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/13/20 21:24	
Benzene	ug/L	ND	5.0	1.7	04/13/20 21:24	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/13/20 21:24	
Ethanol	ug/L	ND	200	144	04/13/20 21:24	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/13/20 21:24	
Ethylbenzene	ug/L	ND	5.0	1.8	04/13/20 21:24	
m&p-Xylene	ug/L	ND	10.0	4.1	04/13/20 21:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/13/20 21:24	
Naphthalene	ug/L	ND	5.0	2.1	04/13/20 21:24	
o-Xylene	ug/L	ND	5.0	2.0	04/13/20 21:24	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/13/20 21:24	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/13/20 21:24	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/13/20 21:24	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/13/20 21:24	
Toluene	ug/L	ND	5.0	2.0	04/13/20 21:24	
Xylene (Total)	ug/L	ND	5.0	5.0	04/13/20 21:24	
1,2-Dichloroethane-d4 (S)	%	103	70-130		04/13/20 21:24	
4-Bromofluorobenzene (S)	%	103	70-130		04/13/20 21:24	
Toluene-d8 (S)	%	102	70-130		04/13/20 21:24	

LABORATORY CONTROL SAMPLE: 2859140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.6	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	49.1	98	70-130	
Diisopropyl ether	ug/L	50	43.4	87	70-130	
Ethanol	ug/L	2000	1750	87	70-130	
Ethyl-tert-butyl ether	ug/L	100	88.0	88	70-130	
Ethylbenzene	ug/L	50	46.9	94	70-130	
m&p-Xylene	ug/L	100	95.2	95	70-130	
Methyl-tert-butyl ether	ug/L	50	47.3	95	70-130	
Naphthalene	ug/L	50	51.6	103	70-130	
o-Xylene	ug/L	50	48.1	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2859140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	468	94	70-130	
tert-Butyl Formate	ug/L	400	341	85	70-130	
Toluene	ug/L	50	48.6	97	70-130	
Xylene (Total)	ug/L	150	143	96	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859141 2859142

Parameter	Units	92473149010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	800	800	807	832	101	104	70-137	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	16000	16000	15400	15300	97	96	39-157	1	30	
Benzene	ug/L	2550	800	800	3280	3200	92	81	70-151	3	30	
Diisopropyl ether	ug/L	ND	800	800	726	747	91	93	63-144	3	30	
Ethanol	ug/L	ND	32000	32000	29800	24700	93	77	39-176	19	30	
Ethyl-tert-butyl ether	ug/L	ND	1600	1600	1510	1490	95	93	66-137	2	30	
Ethylbenzene	ug/L	317	800	800	1010	1010	87	87	66-153	0	30	
m&p-Xylene	ug/L	1190	1600	1600	2560	2570	86	86	69-152	0	30	
Methyl-tert-butyl ether	ug/L	ND	800	800	783	782	98	98	54-156	0	30	
Naphthalene	ug/L	141J	800	800	931	859	99	90	61-148	8	30	
o-Xylene	ug/L	627	800	800	1290	1320	83	86	70-148	2	30	
tert-Amyl Alcohol	ug/L	ND	16000	16000	18400	17800	115	111	54-153	3	30	
tert-Amylmethyl ether	ug/L	ND	1600	1600	1650	1610	103	100	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	8000	8000	8720	8410	109	105	43-188	4	30	
tert-Butyl Formate	ug/L	ND	6400	6400	4090	4090	64	64	10-170	0	30	
Toluene	ug/L	5790	800	800	6120	6090	41	37	59-148	1	30	M1
Xylene (Total)	ug/L	1820	2400	2400	3850	3890	85	86	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						90	92	70-130			
4-Bromofluorobenzene (S)	%						99	104	70-130			
Toluene-d8 (S)	%						96	99	70-130			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535892
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149027, 92473149028

METHOD BLANK: 2859145 Matrix: Water
Associated Lab Samples: 92473149027, 92473149028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/13/20 10:58	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/13/20 10:58	
Benzene	ug/L	ND	5.0	1.7	04/13/20 10:58	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/13/20 10:58	
Ethanol	ug/L	ND	200	144	04/13/20 10:58	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/13/20 10:58	
Ethylbenzene	ug/L	ND	5.0	1.8	04/13/20 10:58	
m&p-Xylene	ug/L	ND	10.0	4.1	04/13/20 10:58	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/13/20 10:58	
Naphthalene	ug/L	ND	5.0	2.1	04/13/20 10:58	
o-Xylene	ug/L	ND	5.0	2.0	04/13/20 10:58	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/13/20 10:58	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/13/20 10:58	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/13/20 10:58	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/13/20 10:58	
Toluene	ug/L	ND	5.0	2.0	04/13/20 10:58	
Xylene (Total)	ug/L	ND	5.0	5.0	04/13/20 10:58	
1,2-Dichloroethane-d4 (S)	%	109	70-130		04/13/20 10:58	
4-Bromofluorobenzene (S)	%	99	70-130		04/13/20 10:58	
Toluene-d8 (S)	%	106	70-130		04/13/20 10:58	

LABORATORY CONTROL SAMPLE: 2859146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.4	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1090	109	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	57.2	114	70-130	
Ethanol	ug/L	2000	2040	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	111	111	70-130	
Ethylbenzene	ug/L	50	45.8	92	70-130	
m&p-Xylene	ug/L	100	92.9	93	70-130	
Methyl-tert-butyl ether	ug/L	50	58.0	116	70-130	
Naphthalene	ug/L	50	51.5	103	70-130	
o-Xylene	ug/L	50	46.3	93	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	552	110	70-130	
tert-Butyl Formate	ug/L	400	470	117	70-130	

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2859146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.5	93	70-130	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859655 2859656

Parameter	Units	92473149028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	1000	1000	1020	986	102	99	70-137	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	18100	18300	91	92	39-157	1	30	
Benzene	ug/L	1900	1000	1000	2450	2630	55	73	70-151	7	30	M1
Diisopropyl ether	ug/L	ND	1000	1000	910	875	91	88	63-144	4	30	
Ethanol	ug/L	ND	40000	40000	29800	36300	74	91	39-176	20	30	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1860	1740	93	87	66-137	6	30	
Ethylbenzene	ug/L	375	1000	1000	1180	1210	81	83	66-153	2	30	
m&p-Xylene	ug/L	4770	2000	2000	5490	6060	36	65	69-152	10	30	M1
Methyl-tert-butyl ether	ug/L	ND	1000	1000	965	916	96	92	54-156	5	30	
Naphthalene	ug/L	609	1000	1000	1500	1550	89	94	61-148	3	30	
o-Xylene	ug/L	2390	1000	1000	2770	3100	38	71	70-148	11	30	M1
tert-Amyl Alcohol	ug/L	ND	20000	20000	19900	20200	99	101	54-153	2	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	2090	1980	104	99	69-139	5	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	8950	8830	90	88	43-188	1	30	
tert-Butyl Formate	ug/L	ND	8000	8000	6760	6640	84	83	10-170	2	30	
Toluene	ug/L	5170	1000	1000	4810	5410	-37	24	59-148	12	30	M1
Xylene (Total)	ug/L	7160	3000	3000	8260	9160	37	67	63-158	10	30	MS
1,2-Dichloroethane-d4 (S)	%						94	92	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535941
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92473149002, 92473149035

METHOD BLANK: 2859406 Matrix: Water
Associated Lab Samples: 92473149002, 92473149035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/13/20 20:40	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/13/20 20:40	
Benzene	ug/L	ND	5.0	1.7	04/13/20 20:40	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/13/20 20:40	
Ethanol	ug/L	ND	200	144	04/13/20 20:40	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/13/20 20:40	
Ethylbenzene	ug/L	ND	5.0	1.8	04/13/20 20:40	
m&p-Xylene	ug/L	ND	10.0	4.1	04/13/20 20:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/13/20 20:40	
Naphthalene	ug/L	ND	5.0	2.1	04/13/20 20:40	
o-Xylene	ug/L	ND	5.0	2.0	04/13/20 20:40	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/13/20 20:40	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/13/20 20:40	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/13/20 20:40	v2
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/13/20 20:40	v2
Toluene	ug/L	ND	5.0	2.0	04/13/20 20:40	
Xylene (Total)	ug/L	ND	5.0	5.0	04/13/20 20:40	
1,2-Dichloroethane-d4 (S)	%	87	70-130		04/13/20 20:40	
4-Bromofluorobenzene (S)	%	102	70-130		04/13/20 20:40	
Toluene-d8 (S)	%	100	70-130		04/13/20 20:40	

LABORATORY CONTROL SAMPLE: 2859407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.6	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	874	87	70-130	
Benzene	ug/L	50	47.1	94	70-130	
Diisopropyl ether	ug/L	50	41.7	83	70-130	
Ethanol	ug/L	2000	1660	83	70-130	
Ethyl-tert-butyl ether	ug/L	100	84.4	84	70-130	
Ethylbenzene	ug/L	50	44.2	88	70-130	
m&p-Xylene	ug/L	100	90.5	90	70-130	
Methyl-tert-butyl ether	ug/L	50	44.3	89	70-130	
Naphthalene	ug/L	50	53.7	107	70-130	
o-Xylene	ug/L	50	46.7	93	70-130	
tert-Amyl Alcohol	ug/L	1000	884	88	70-130	
tert-Amylmethyl ether	ug/L	100	90.4	90	70-130	
tert-Butyl Alcohol	ug/L	500	387	77	70-130	v3
tert-Butyl Formate	ug/L	400	330	82	70-130	v3

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2859407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.3	91	70-130	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859613 2859614

Parameter	Units	92472150012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	23.8	23.8	119	119	70-137	0	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	415	421	104	105	39-157	1	30	
Benzene	ug/L	ND	20	20	23.7	23.6	119	118	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	22.0	22.0	110	110	63-144	0	30	
Ethanol	ug/L	ND	800	800	867	972	108	122	39-176	11	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	43.0	41.8	108	104	66-137	3	30	
Ethylbenzene	ug/L	ND	20	20	22.7	22.1	113	110	66-153	3	30	
m&p-Xylene	ug/L	ND	40	40	44.5	43.8	111	109	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.5	22.7	113	114	54-156	1	30	
Naphthalene	ug/L	ND	20	20	20.3	21.0	102	105	61-148	4	30	
o-Xylene	ug/L	ND	20	20	22.0	21.4	110	107	70-148	3	30	
tert-Amyl Alcohol	ug/L	ND	400	400	434	432	109	108	54-153	0	30	
tert-Amylmethyl ether	ug/L	ND	40	40	43.6	43.8	109	109	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	200	200	293	300	147	150	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30	P5
Toluene	ug/L	ND	20	20	22.9	23.3	114	116	59-148	2	30	
Xylene (Total)	ug/L	ND	60	60	66.5	65.2	111	109	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						102	102	70-130			
4-Bromofluorobenzene (S)	%						103	103	70-130			
Toluene-d8 (S)	%						101	99	70-130			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 536040
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149006, 92473149012, 92473149014, 92473149019, 92473149020, 92473149021, 92473149022, 92473149023, 92473149024, 92473149025, 92473149029, 92473149031, 92473149032

METHOD BLANK: 2859743
Matrix: Water
Associated Lab Samples: 92473149006, 92473149012, 92473149014, 92473149019, 92473149020, 92473149021, 92473149022, 92473149023, 92473149024, 92473149025, 92473149029, 92473149031, 92473149032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/14/20 14:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/14/20 14:38	
Benzene	ug/L	ND	5.0	1.7	04/14/20 14:38	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/14/20 14:38	
Ethanol	ug/L	ND	200	144	04/14/20 14:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/14/20 14:38	
Ethylbenzene	ug/L	ND	5.0	1.8	04/14/20 14:38	
m&p-Xylene	ug/L	ND	10.0	4.1	04/14/20 14:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/14/20 14:38	
Naphthalene	ug/L	ND	5.0	2.1	04/14/20 14:38	
o-Xylene	ug/L	ND	5.0	2.0	04/14/20 14:38	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/14/20 14:38	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/14/20 14:38	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/14/20 14:38	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/14/20 14:38	
Toluene	ug/L	ND	5.0	2.0	04/14/20 14:38	
Xylene (Total)	ug/L	ND	5.0	5.0	04/14/20 14:38	
1,2-Dichloroethane-d4 (S)	%	97	70-130		04/14/20 14:38	
4-Bromofluorobenzene (S)	%	100	70-130		04/14/20 14:38	
Toluene-d8 (S)	%	106	70-130		04/14/20 14:38	

LABORATORY CONTROL SAMPLE: 2859744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.4	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	953	95	70-130	
Benzene	ug/L	50	48.7	97	70-130	
Diisopropyl ether	ug/L	50	49.0	98	70-130	
Ethanol	ug/L	2000	1800	90	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.6	97	70-130	
Ethylbenzene	ug/L	50	43.3	87	70-130	
m&p-Xylene	ug/L	100	86.4	86	70-130	
Methyl-tert-butyl ether	ug/L	50	50.8	102	70-130	
Naphthalene	ug/L	50	47.5	95	70-130	
o-Xylene	ug/L	50	44.0	88	70-130	
tert-Amyl Alcohol	ug/L	1000	964	96	70-130	
tert-Amylmethyl ether	ug/L	100	93.0	93	70-130	

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2859744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	459	92	70-130	
tert-Butyl Formate	ug/L	400	419	105	70-130	
Toluene	ug/L	50	43.6	87	70-130	
Xylene (Total)	ug/L	150	130	87	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859745 2859746

Parameter	Units	92473149025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	5000	5000	5150	5350	103	107	70-137	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100000	100000	87700	93300	88	93	39-157	6	30	
Benzene	ug/L	16600	5000	5000	22200	22300	112	116	70-151	1	30	
Diisopropyl ether	ug/L	ND	5000	5000	5120	5240	101	103	63-144	2	30	
Ethanol	ug/L	ND	200000	200000	190000	194000	95	97	39-176	2	30	
Ethyl-tert-butyl ether	ug/L	ND	10000	10000	9700	10000	97	100	66-137	3	30	
Ethylbenzene	ug/L	1740	5000	5000	6650	6790	98	101	66-153	2	30	
m&p-Xylene	ug/L	7020	10000	10000	16700	17500	97	105	69-152	5	30	
Methyl-tert-butyl ether	ug/L	ND	5000	5000	5160	5380	100	105	54-156	4	30	
Naphthalene	ug/L	702J	5000	5000	5530	6070	97	107	61-148	9	30	
o-Xylene	ug/L	3810	5000	5000	8670	8920	97	102	70-148	3	30	
tert-Amyl Alcohol	ug/L	ND	100000	100000	96700	96700	97	97	54-153	0	30	
tert-Amylmethyl ether	ug/L	ND	10000	10000	9770	9960	98	100	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	50000	50000	43600	45500	87	91	43-188	4	30	
tert-Butyl Formate	ug/L	ND	40000	40000	39400	41000	98	102	10-170	4	30	
Toluene	ug/L	27400	5000	5000	30400	30600	59	63	59-148	1	30	
Xylene (Total)	ug/L	10800	15000	15000	25400	26400	97	104	63-158	4	30	
1,2-Dichloroethane-d4 (S)	%						104	106	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 536312
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92473149003, 92473149026

METHOD BLANK: 2860838 Matrix: Water
Associated Lab Samples: 92473149003, 92473149026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/15/20 13:40	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/15/20 13:40	
Benzene	ug/L	ND	5.0	1.7	04/15/20 13:40	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/15/20 13:40	
Ethanol	ug/L	ND	200	144	04/15/20 13:40	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/15/20 13:40	
Ethylbenzene	ug/L	ND	5.0	1.8	04/15/20 13:40	
m&p-Xylene	ug/L	ND	10.0	4.1	04/15/20 13:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/15/20 13:40	
Naphthalene	ug/L	ND	5.0	2.1	04/15/20 13:40	
o-Xylene	ug/L	ND	5.0	2.0	04/15/20 13:40	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/15/20 13:40	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/15/20 13:40	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/15/20 13:40	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/15/20 13:40	
Toluene	ug/L	ND	5.0	2.0	04/15/20 13:40	IH
Xylene (Total)	ug/L	ND	5.0	5.0	04/15/20 13:40	
1,2-Dichloroethane-d4 (S)	%	103	70-130		04/15/20 13:40	
4-Bromofluorobenzene (S)	%	102	70-130		04/15/20 13:40	
Toluene-d8 (S)	%	98	70-130		04/15/20 13:40	

LABORATORY CONTROL SAMPLE: 2860839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.8	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1150	115	70-130	
Benzene	ug/L	50	49.6	99	70-130	
Diisopropyl ether	ug/L	50	54.8	110	70-130	
Ethanol	ug/L	2000	2240	112	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	47.1	94	70-130	
m&p-Xylene	ug/L	100	95.5	96	70-130	
Methyl-tert-butyl ether	ug/L	50	55.9	112	70-130	
Naphthalene	ug/L	50	55.7	111	70-130	
o-Xylene	ug/L	50	49.5	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1130	113	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	570	114	70-130	
tert-Butyl Formate	ug/L	400	483	121	70-130	

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

LABORATORY CONTROL SAMPLE: 2860839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	47.4	95	70-130	IH
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860840 2860841

Parameter	Units	92473149003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	2500	2500	2760	2740	110	110	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	50000	50000	55900	54000	112	108	39-157	4	30	
Benzene	ug/L	3410	2500	2500	6180	5970	111	102	70-151	3	30	
Diisopropyl ether	ug/L	ND	2500	2500	2880	2850	114	113	63-144	1	30	
Ethanol	ug/L	ND	100000	100000	114000	113000	114	113	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	5000	5000	5520	5510	110	110	66-137	0	30	
Ethylbenzene	ug/L	594J	2500	2500	3280	3290	108	108	66-153	0	30	
m&p-Xylene	ug/L	3500	5000	5000	8700	9020	104	110	69-152	4	30	
Methyl-tert-butyl ether	ug/L	ND	2500	2500	2950	2960	118	118	54-156	0	30	
Naphthalene	ug/L	507J	2500	2500	3200	3170	108	107	61-148	1	30	
o-Xylene	ug/L	1920	2500	2500	4480	4670	102	110	70-148	4	30	
tert-Amyl Alcohol	ug/L	ND	50000	50000	58200	54300	116	109	54-153	7	30	
tert-Amylmethyl ether	ug/L	ND	5000	5000	5760	5450	115	109	69-139	6	30	
tert-Butyl Alcohol	ug/L	ND	25000	25000	28200	27900	113	112	43-188	1	30	
tert-Butyl Formate	ug/L	ND	20000	20000	23900	22900	119	115	10-170	4	30	
Toluene	ug/L	8470	2500	2500	11000	10400	102	79	59-148	5	30	IH
Xylene (Total)	ug/L	5420	7500	7500	13200	13700	103	110	63-158	4	30	
1,2-Dichloroethane-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						98	103	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535533
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149001, 92473149002, 92473149003, 92473149004, 92473149005, 92473149006, 92473149007, 92473149008, 92473149009

METHOD BLANK: 2857420 Matrix: Water
Associated Lab Samples: 92473149001, 92473149002, 92473149003, 92473149004, 92473149005, 92473149006, 92473149007, 92473149008, 92473149009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	04/10/20 19:44	
1-Chloro-2-bromopropane (S)	%	102	60-140		04/10/20 19:44	

LABORATORY CONTROL SAMPLE & LCSD: 2857421 2857422

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.23	0.24	96	97	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				94	97	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857424 2857425

Parameter	Units	92472965023 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	0.38	0.39	152	155	60-140	2	20	M1
1-Chloro-2-bromopropane (S)	%						92	93	60-140			

SAMPLE DUPLICATE: 2857423

Parameter	Units	92472965021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	96	92			

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535534
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149010, 92473149011, 92473149012, 92473149013, 92473149014, 92473149015, 92473149016, 92473149017, 92473149018, 92473149019, 92473149020, 92473149021, 92473149022, 92473149023, 92473149024, 92473149025, 92473149026, 92473149027, 92473149028, 92473149029

METHOD BLANK: 2857426 Matrix: Water
Associated Lab Samples: 92473149010, 92473149011, 92473149012, 92473149013, 92473149014, 92473149015, 92473149016, 92473149017, 92473149018, 92473149019, 92473149020, 92473149021, 92473149022, 92473149023, 92473149024, 92473149025, 92473149026, 92473149027, 92473149028, 92473149029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	04/11/20 01:01	
1-Chloro-2-bromopropane (S)	%	92	60-140		04/11/20 01:01	

LABORATORY CONTROL SAMPLE & LCSD: 2857427 2857428

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	0.24	0.24	96	96	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				98	94	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857430 2857431

Parameter	Units	92473149011 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	0.24	0.23	95	93	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						94	90	60-140			

SAMPLE DUPLICATE: 2857429

Parameter	Units	92473149010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	29.0	33.5	14	20	
1-Chloro-2-bromopropane (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

QC Batch: 535794
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92473149030, 92473149031, 92473149032, 92473149033

METHOD BLANK: 2858599 Matrix: Water
Associated Lab Samples: 92473149030, 92473149031, 92473149032, 92473149033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	04/13/20 21:37	
1-Chloro-2-bromopropane (S)	%	115	60-140		04/13/20 21:37	

LABORATORY CONTROL SAMPLE & LCSD: 2858600 2858601

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	0.24	0.24	98	99	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				101	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858603 2858604

Parameter	Units	92473149031 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	15.7	0.25	0.25	15.9	16.6	73	338	60-140	4	20	M1
1-Chloro-2-bromopropane (S)	%						118	122	60-140			

SAMPLE DUPLICATE: 2858602

Parameter	Units	92473149030 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	102	94			

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QUALIFIERS

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

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.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
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: UST Unknown #14324/61371
Pace Project No.: 92473149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92473149001	MW-1	EPA 8011	535533	EPA 8011	535601
92473149002	MW-2	EPA 8011	535533	EPA 8011	535601
92473149003	MW-4	EPA 8011	535533	EPA 8011	535601
92473149004	MW-5	EPA 8011	535533	EPA 8011	535601
92473149005	MW-12	EPA 8011	535533	EPA 8011	535601
92473149006	MW-13	EPA 8011	535533	EPA 8011	535601
92473149007	MW-19R	EPA 8011	535533	EPA 8011	535601
92473149008	MW-20	EPA 8011	535533	EPA 8011	535601
92473149009	MW-21R	EPA 8011	535533	EPA 8011	535601
92473149010	MW-22	EPA 8011	535534	EPA 8011	535602
92473149011	MW-23	EPA 8011	535534	EPA 8011	535602
92473149012	MW-24	EPA 8011	535534	EPA 8011	535602
92473149013	MW-25	EPA 8011	535534	EPA 8011	535602
92473149014	MW-26	EPA 8011	535534	EPA 8011	535602
92473149015	MW-27	EPA 8011	535534	EPA 8011	535602
92473149016	MW-28	EPA 8011	535534	EPA 8011	535602
92473149017	MW-29	EPA 8011	535534	EPA 8011	535602
92473149018	DW-1	EPA 8011	535534	EPA 8011	535602
92473149019	DW-2	EPA 8011	535534	EPA 8011	535602
92473149020	DW-3	EPA 8011	535534	EPA 8011	535602
92473149021	RW-1	EPA 8011	535534	EPA 8011	535602
92473149022	RW-2	EPA 8011	535534	EPA 8011	535602
92473149023	RW-3	EPA 8011	535534	EPA 8011	535602
92473149024	RW-4	EPA 8011	535534	EPA 8011	535602
92473149025	RW-5	EPA 8011	535534	EPA 8011	535602
92473149026	EP-4	EPA 8011	535534	EPA 8011	535602
92473149027	EP-12	EPA 8011	535534	EPA 8011	535602
92473149028	EP-16	EPA 8011	535534	EPA 8011	535602
92473149029	EP-20	EPA 8011	535534	EPA 8011	535602
92473149030	SW-1	EPA 8011	535794	EPA 8011	535869
92473149031	DUP-1	EPA 8011	535794	EPA 8011	535869
92473149032	DUP-2	EPA 8011	535794	EPA 8011	535869
92473149033	FB	EPA 8011	535794	EPA 8011	535869
92473149030	SW-1	EPA 8260D	535849		
92473149001	MW-1	EPA 8260D	535889		
92473149002	MW-2	EPA 8260D	535941		
92473149003	MW-4	EPA 8260D	536312		
92473149004	MW-5	EPA 8260D	535889		
92473149005	MW-12	EPA 8260D	535889		
92473149006	MW-13	EPA 8260D	536040		
92473149007	MW-19R	EPA 8260D	535478		
92473149008	MW-20	EPA 8260D	535889		
92473149009	MW-21R	EPA 8260D	535478		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UST Unknown #14324/61371
Pace Project No.: 92473149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92473149010	MW-22	EPA 8260D	535889		
92473149011	MW-23	EPA 8260D	535478		
92473149012	MW-24	EPA 8260D	536040		
92473149013	MW-25	EPA 8260D	535478		
92473149014	MW-26	EPA 8260D	536040		
92473149015	MW-27	EPA 8260D	535478		
92473149016	MW-28	EPA 8260D	535478		
92473149017	MW-29	EPA 8260D	535889		
92473149018	DW-1	EPA 8260D	535889		
92473149019	DW-2	EPA 8260D	536040		
92473149020	DW-3	EPA 8260D	536040		
92473149021	RW-1	EPA 8260D	536040		
92473149022	RW-2	EPA 8260D	536040		
92473149023	RW-3	EPA 8260D	536040		
92473149024	RW-4	EPA 8260D	536040		
92473149025	RW-5	EPA 8260D	536040		
92473149026	EP-4	EPA 8260D	536312		
92473149027	EP-12	EPA 8260D	535892		
92473149028	EP-16	EPA 8260D	535892		
92473149029	EP-20	EPA 8260D	536040		
92473149031	DUP-1	EPA 8260D	536040		
92473149032	DUP-2	EPA 8260D	536040		
92473149033	FB	EPA 8260D	535889		
92473149034	TB-1	EPA 8260D	535889		
92473149035	TB-2	EPA 8260D	535941		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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LAB USE ONLY- Affix ALL SH

WO# : 92473149

92473149

Page 61 of 68

Company: MECI

Billing Information:

Address: 131 Dooley Rd. Lexington SC 29073

Report To: B. Shane

Email To: jlc@meci.net

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: UST Unknown #14324

State: SC County/City: Seneca Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:
Email:

Site/Facility ID #: CA 61371

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Shawn Sprott

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

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

Analysis: _____

* 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), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type: 3 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: BTEX/MTBE, 1,2-DCA, oxys 8260B; EDB 8011

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns			Lab Sample # / Comments
MW-1	GW	G	4/7/20	14:52				6	X	X	92473149
MW-2				12:21				6	X	X	Strong odor, sheen 001
MW-4				13:56				6	X	X	Strong odor 002
MW-5				15:10				6	X	X	odor 003
MW-12				11:36				6	X	X	odor 004
MW-13				11:41				6	X	X	Slight odor 005
MW-19R				11:07				6	X	X	Strong odor 006
MW-20				12:01				6	X	X	No odor 007
MW-21R				11:50				6	X	X	No odor 008
MW-22				12:10				6	X	X	No odor 009
											Slight odor 010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2429010

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Profile/Line:

Lab Sample Receipt Checklist:

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 Soils	Y	N	(NA)
Samples in Holding Time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips:			
Sample pH Acceptable	Y	N	(NA)
pH Strips:			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR9710G-1
Cooler 1 Temp Upon Receipt: 1.3 oC 0.9
Cooler 1 Therm Corr. Factor: +.1 oC
Cooler 1 Corrected Temp: 1.4 oC 1.0
Comments:

Trip Blank Received: (Y) N NA
(HCl) MeOH TSP Other

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	4-8-20/0840		4-8-20/0840
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	4-8-20/1300	PACE	4-9-20 1300
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Non Conformance(s): YES / NO

Page: 1 of: 4

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: MECI	Billing Information:
Address: 831 Dooley Rd, Lexington SC 29073	
Report To: B. Shane	Email To: jlc@meci.net
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: UST Unknown #14324	State: SC County/City: Seneca Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: CA 61371 — Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Shawn Spratt	Purchase Order #: Quote #: — DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: — Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) — Field Filtered (If applicable): [ ] Yes [ ] No — Analysis:

* 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), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 | 5

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: BTEXNM, 1,2-DCA, Oxys 8260B; EDB 8011

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEXNM, 1,2-DCA, Oxys 8260B	EDB 8011
Mw-23	GW	G	4/7/20	10:50				6	X	X
Mw-24				12:41				6	X	X
Mw-25				15:32				6	X	X
Mw-26				15:31				6	X	X
Mw-27				10:52				6	X	X
Mw-28				10:10				6	X	X
Mw-29				10:36				6	X	X
Dw-1				11:21				6	X	X
Dw-2				10:19				6	X	X
Dw-3				10:36				6	X	X

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

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 Soils	Y N (NA)
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	Y N (NA)
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

92473149

Mw-23: No odor 011
Mw-24: Strong odor 012
Mw-25: Slight odor 013
Mw-26: Strong odor, sheen 014
Mw-27: No odor 015
Mw-28: No odor 016
Mw-29: Slight odor 017
Dw-1: No odor 018
Dw-2: Slight odor 019
Dw-3: No odor 020

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2429008

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR2[illegible]
Cooler 1 Temp Upon Receipt: 1.3 oC 0.9
Cooler 1 Therm Corr. Factor: +0.1 oC
Cooler 1 Corrected Temp: 1.4 oC 1.0
Comments:

Relinquished by/Company: (Signature)	Date/Time: 4-8-20/0840	Received by/Company: (Signature)	Date/Time: 4-8-20 0840
Relinquished by/Company: (Signature)	Date/Time: 4-8-20/1300	Received by/Company: (Signature) FXE	Date/Time: 4-9-20 320
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCl) MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 4

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: MECI

Billing Information:

Address:

Report To:

Email To:

Copy To:

Site Collection Info/Address:

Customer Project Name/Number:

State: County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print):

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

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

Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

* 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), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns			Lab Sample # / Comments
Rw-1	GW	G	4/7/20	14:00				6	X	X	924731[illegible]
Rw-2				14:38				6	X	X	Strong odor 021
Rw-3				13:22				6	X	X	Strong odor 022
Rw-4				14:32				6	X	X	Strong odor 023
Rw-5				13:36				6	X	X	Strong odor 024
EP-4				15:09				6	X	X	Strong odor, [illegible] 025
EP-12				12:27				6	X	X	[illegible] Strong odor, sheen 026
EP-16				12:44				6	X	X	[illegible] Slight odor 027
EP-20				12:58				6	X	X	Strong odor, sheen 028
Sw-1				15:40				6	X	X	Strong odor 029
											LDL 030

Lab Sample Receipt Checklist:

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 Soils	Y N	(NA)
Samples in Holding Time	(Y) N	NA
Residual Chlorine Present	Y N	(NA)
Cl Strips:		
Sample pH Acceptable	Y N	(NA)
pH Strips:		
Sulfide Present	Y N	(NA)
Lead Acetate Strips:		

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2429007

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR2 TC#1
Cooler 1 Temp Upon Receipt: 1.3 oC (IR)
Cooler 1 Therm Corr. Factor: +0.1 oC
Cooler 1 Corrected Temp: 1.4 oC (IR)
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
MECI	4-8-20 0840		4-8-20 0840
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	4-8-20 1300	PACE	4-8-20 1300
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 4

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: MECI	Billing Information:
Address: 321 Dooley Rd, Lexington SC 29073	
Report To: B. Shane	Email To: jlc@meci.net
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: UST Unknown #14824	State: SC County/City: Seneca Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: CA 9771 Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: 3 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses: ETEX VOA MTBE ONLY; EDB 8011

* 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), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns			Lab Sample # / Comments
D-1	GW	G	4/7/20	11:41				6	X	X	92473149 Strong odor 031
D-2				12:21				6	X	X	Strong odor 032
FB				15:48				6	X	X	Field Blank 033
TB-1				8:00				2	X		Trip Blank 034
TB-2				8:00				2	X		Trip Blank 035

Lab Profile/Line:

Lab Sample Receipt Checklist:

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 Soils	Y N (NA)
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	Y N (NA)
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: bubble bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2429009

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: IR-2 TD-1

Cooler 1 Temp Upon Receipt: 1.3 oC 0.9

Cooler 1 Therm Corr. Factor: 1.1 oC

Cooler 1 Corrected Temp: 1.4 oC 1.0

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] MECI	4-8-20/0840	[signature]	4-8-20/0840
[signature]	4-8-20/1300	[signature] PACE	4-8-20 1300

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: (Y) N NA (HCL) MeOH TSP Other

Non Conformance(s): YES / NO

Page: 4 of: 4

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

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

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

Project #

pg 1

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6												
2																6												
3																6												
4																6												
5																6												
6																6												
7																6												
8																6												
9																6												
10																6												
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 DEHNR 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.**

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

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

Project #

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6													
2																6													
3																6													
4																6													
5																6													
6																6													
7																6													
8																6													
9																6													
10																6													
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 DEHNR 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.**

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

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

Project #

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6													
2																6													
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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 DEHNR 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.**

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

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

Project #

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:

WELL COMPLETION LOGS & 1903 FORMS

(Not Applicable)

APPENDIX F:

AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

(Not Applicable)

APPENDIX G:

DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

April 23, 2020

Re: Treatment of Purge Water
Unknown UST# 14324
Seneca, South Carolina
SCDHEC Site ID Number 14324
MECI Project Number 20-7241

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.

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

A total of 375.00 gallons were treated on April 7, 2020, 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 H:

LOCAL ZONING REGULATIONS

(Not Applicable)

APPENDIX I:

FATE AND TRANSPORT MODELING

(Not Applicable)

APPENDIX J:

ACCESS AGREEMENTS

(Not Applicable)

APPENDIX K:

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 5)	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 B)	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? (Table 1)			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? (Tables 3)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			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 4, 4A)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			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? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			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 K)	X		

dhec
Healthy People. Healthy Communities.

JUN 21 2021

UST 77 KETING

BETTY LATHEM
2 STRATTON PLACE
GREENVILLE SC 29615

Re: **Site-Specific Work Plan Request for Tier II Assessment**
UST – Unknown 14324, 519 East North 1st Street, Seneca, SC
UST Permit #14324
Release reported December 30, 1991
Monitoring Report Received June 22, 2020
Oconee County

Dear Ms. Lathem:

The Underground Storage Tank Management (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations R.61-92, implementation of a Tier II assessment is necessary. The assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at scdhec.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Your contractor must complete the Site Specific Work Plan and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. Consider a Tier II work plan that focuses on the intermediate and deep aquifer systems, the number of shallow wells on this site may be enough to adequately define the shallow plume. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence concerning this site, please reference the above listed UST Permit number. If there are any questions concerning this project, feel free to contact me by phone at (803) 898- 2622 by fax at (803)-898-0673, or by e-mail at chonkogh@dhec.sc.gov.

Sincerely,

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

cc: Midlands Environmental Consultants Inc, PO Box 854, Lexington, SC 29071 (w/o enc)
Technical file

Midlands
Environmental
Consultants, Inc.

July 21, 2021

UST 7871 DOCKETING

Mr. Greg Chonko, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Greg
RECEIVED
JUL 21 2021
SC Department of
Health & Environmental Control

Subject: Site-Specific Work Plan – Tier II
Unknown UST 14324
519 East North 1st Street
Seneca, South Carolina
Oconee County
SCDHEC Site ID Number 14324
MECI Project Number 21-7631
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Chonko,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On July 15, 2021 MECI personnel performed a site visit to the subject site to evaluate current site conditions, locate previously installed monitoring wells and identify potential problems for future Tier II Investigation Activities.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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

To: Mr. Greg Chonko (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Unknown UST 14324 (Former Red Diamond) UST Permit #: 14324
Facility Address: 519 East North 1st Street, Seneca, SC
Responsible Party: Ms. Betty Lathem Phone: 864-288-6480
RP Address: 2 Stratton Place, Greenville, SC 29615
Property Owner (if different): Gary Alexander
Property Owner Address: 414 Edgewater Drive, Westminster, SC 29693
Current Use of Property: Vacant Lot

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

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

Air:

- ☐ BTEXN

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

____ Soil	____ Water Supply Wells	____ Air	2 Field Blank
59 Monitoring Wells	1 Surface Water	2 Duplicate	3 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: 11 Estimated Footage: 40' feet per point
# of deep points proposed: 28 Estimated Footage: 13 x 65' & 15 x 90' feet per point
Field Screening Methodology: Direct Push

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 9 Estimated Footage: 40' feet per point
# of deep wells: 21 Estimated Footage: 10 x 65' & 11 x 90' feet per point
# of recovery wells: ____ Estimated Footage: ____ feet per point
Comments, if warranted: Subject to change-Based on Field Screening Results

UST Permit #: 14324 Facility Name: Unknown UST 14324 (Former Red Diamond)

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 7/21/2021 Field Work Completion: 9/21/2021

Report Submittal: 10/21/2021 # of Copies Provided to Property Owners: 4

Aquifer Characterization

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

6 Total (2 x shallow, 2 x intermediate & 2 deep)

Investigation Derived Waste Disposal

Soil: 10 Tons Purge Water: 1,000 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

See attached detailed Plan

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: _____

None 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
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

Unknown UST/UST# 14324

Tier II Plan

Known Information:

- Twenty-nine previously installed monitoring wells currently make up the well network installed to monitor the contaminant plume emanating from the subject site.
- CoC's of concern include; Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, EDB, TAA and DIPE
- Groundwater is approximately 25'-35' BGS and varies with topography.
- Groundwater flow from the source is to the north-northeast toward an unnamed creek associated with the Cane Creek. The head waters to this unnamed creek is located approximately 900' northeast of the source.
- No known water supply wells are located within 1,000' feet of the site; however, it should be noted that the receptor survey is currently incomplete.
- The contaminant plume appears to be "diving out" in the area downgradient of the source in the areas MW-12/MW-13, MW-29/DW-2, MW-19R/DW-1 and MW-23/DW-3.
- Currently the contaminant plume is not defined horizontally or vertically.

Phase 1: Groundwater Screening

- Direct Push Screening methods or similar will be utilized to better screen groundwater surrounding the site. (**Total Footage = 2,635** See Below)
- 11 Shallow Screening Locations are Proposed (40' BGS) **(Total Footage = 440')**
- 15 Vertical Screening Locations: Vertical Screening depths will be dependent upon the depth of the transitional zone and will also focus on the known 60'-65' zone of the contaminant corridor.
    - 13 x 65' **(Total Footage = 845')**
    - 15 x 90' **(Total Footage = 1,350')**
- Screening will be conducted utilizing a variety of techniques to include; Ultraviolet Fluorescence Spectrophotometer, Frog-5000 Micro Gas Chromatograph with PID and Laboratory Analysis.

Phase 2: Well Installation

- The final well plan, total depths, screened intervals and outer casing depths will be based on the results of Phase 1 and approved by the SCDHEC Project Manager prior to installation. For planning purposes:
- 9 shallow monitoring wells have been proposed (40' TD) **(Total Type II = 360')**
- 10 intermediate monitoring wells have been proposed (65' TD) **(Total Type III = 650')**
- 11 deep monitoring wells have been proposed (90' TD) **(Total Type III = 990')**

Phase 3: Sampling, Slug Test, Survey

- Following well development, all installed monitoring wells will be purged and sampled. Samples from the monitoring wells will be analyzed for BTEX,N,M,DCA,Oxy's (8260), EDB (8011) and Total Lead (8010).
- Water supply samples/surface water samples will be collected and analyzed for BTEX,N,M,DCA,OXY's and EDB by appropriate methods during the final groundwater sampling event.
- 6 Slug Tests will be completed (2 x shallow/2 x Intermediate/2 x Deep)
- A comprehensive survey will be performed

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ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: Unknown UST 14324

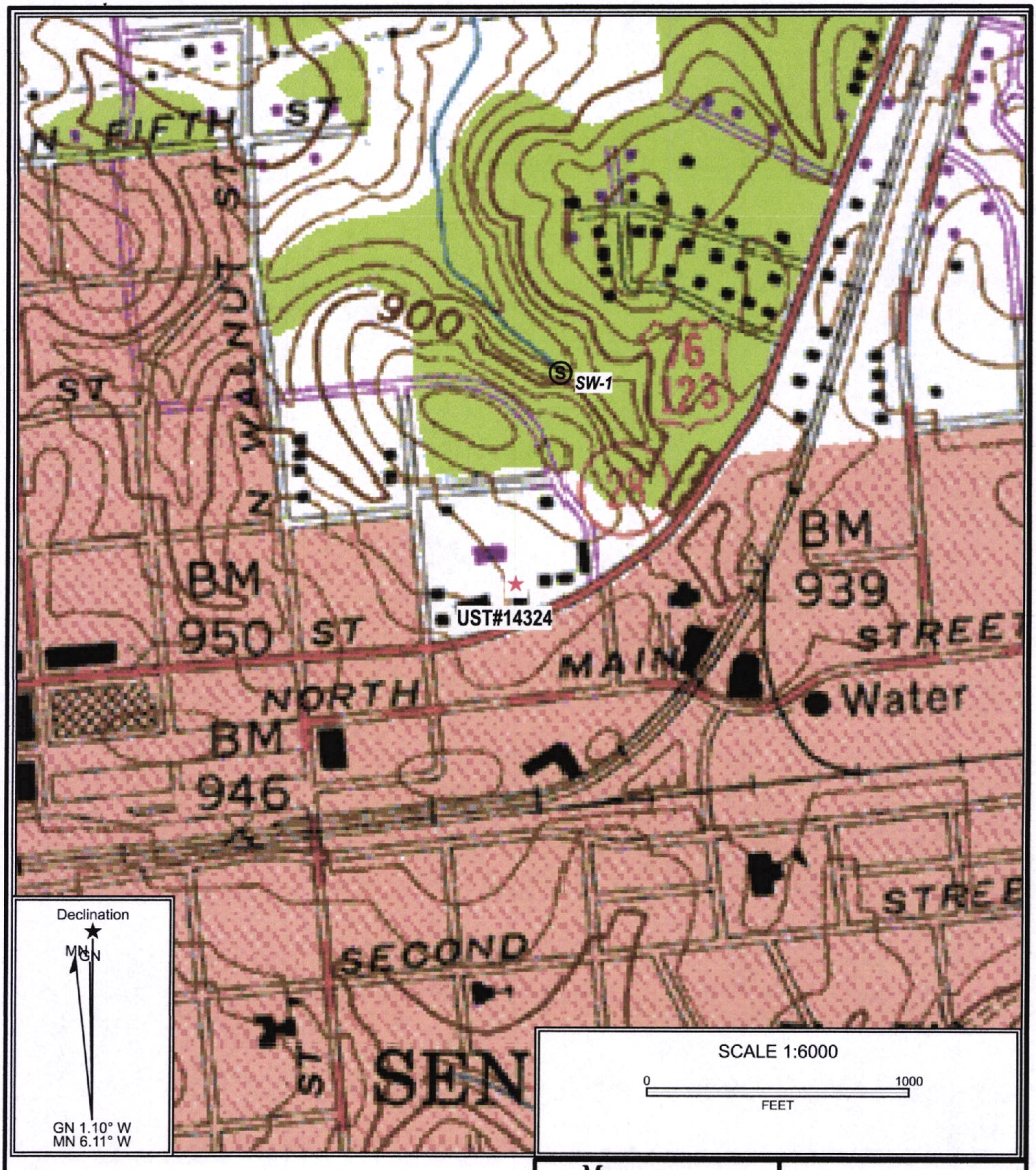
UST Permit #: 14324 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1. Site-specific Work Plan	1	each	$160.05		$160.05
2. Tax Map	1	each	$74.69		$74.69
3. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00		$0.00
B. **Receptor Survey ***	1	each	$587.92		$587.92
C. **Survey (500 ft x 500 ft)**					
1. Comprehensive Survey	2	each	$1,109.68		$2,219.36
Subsurface Geophysical Survey					
2. < 10 meters below grade		each	$1,387.10		$0.00
3. > 10 meters below grade		each	$2,464.77		$0.00
4. Geophysical UST or Drum Survey		each	$970.97		$0.00
D. **Mob/Demob**					
1. Equipment	2	each	$1,088.34		$2,176.68
2. Personnel	6	each	$451.34		$2,708.04
3. Adverse Terrain Vehicle		each	$533.50		$0.00
E.. **Soil Borings (hand auger)***		foot	$5.34		$0.00
F. **Soil Borings (requiring equipment, push technology, etc) or**					
Field Screening (including water ssample, soil sample, soil gas sample, etc.)*					
1. Standard	2635	per foot	$16.01		$42,186.35
2. Fractured Rock		per foot	$21.55		$0.00
G. **Soil Leachability Model**		each	$64.02		$0.00
H. **Abandonment (per foot)***					
1. 2" diameter or less		per foot	$3.31		$0.00
2. Greater than 2" to 6" diameter		per foot	$4.80		$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	$16.00		$0.00
I. **Well Installation (per foot)***					
1. Water Table (hand augered)		per foot	$11.31		$0.00
2. Water Table (drill rig) 2" Diameter	360	per foot	$40.55		$14,598.00
3. Telescoping	1640	per foot	$53.35		$87,494.00
4. Rock Drilling		per foot	$61.89		$0.00
5. 2" Rock Coring		per foot	$32.97		$0.00
6. Rock Multi-sampling ports/screens		per foot	$35.64		$0.00
7. Recovery Well (4" diameter)		per foot	$48.02		$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	$16.01		$0.00
9. Rotosonic (2" diameter)		per foot	$46.95		$0.00
10. Re-develop Existing Well		per foot	$11.74		$0.00
J. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
1. Groundwater Purge	59	per well	$64.02		$3,777.18
2. Air or Vapors		sample	$12.80		$0.00
3. Water Supply Sample or Duplicate		sample	$23.47		$0.00
4. Groundwater No Purge or Duplicate or Grab	3	sample	$29.88		$89.64
5. Gauge Well only		sample	$7.47		$0.00
6. Sample Below Product		sample	$12.80		$0.00
7. Passive Diffusion Bag		sample	$27.74		$0.00
8. Field Blank	2	sample	$26.25		$52.50
9. Groundwater (low flow purge)		sample	$97.10		$0.00
10. Equipment Blank		sample	$26.25		$0.00

K. Laboratory Analyses-Groundwater					
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	67	per sample	$130.17		$8,721.39
2. Lead, Filtered		per sample	$14.72		$0.00
3. Rush EPA Method 8260B		per sample	$163.89		$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$29.88		$0.00
5. PAH's		per sample	$64.66		$0.00
6. Lead	60	per sample	$17.07		$1,024.20
7. EDB by EPA 8011	64	per sample	$48.23		$3,086.72
8. EDB by EPA Method 8011 Rush		per sample	$72.77		$0.00
9. 8 RCRA Metals		per sample	$67.65		$0.00
10. TPH (9070)		per sample	$43.75		$0.00
11. PH		per sample	$5.55		$0.00
12. BOD		per sample	$21.34		$0.00
13. Ethanol		per sample	$15.79		$0.00
K. Analyses-Drinking Water					
14. BTEXNM+1,2 DCA (524.2)		per sample	$132.36		$0.00
15. 7-OXYGENATES & ETHANOL (8260B)		per sample	$97.90		$0.00
16. EDB (504.1)		per sample	$84.83		$0.00
17. RCRA METALS (200.8)		per sample	$106.70		$0.00
K. **Analyses-Soil**					
18. BTEX + Naphth.		per sample	$68.29		$0.00
19. PAH's		per sample	$68.33		$0.00
20. 8 RCRA Metals		per sample	$60.18		$0.00
21. TPH-DRO (3550C/8015C)		per sample	$42.68		$0.00
22. TPH- GRO (5035B/8015C)		per sample	$38.37		$0.00
23. Grain size/hydrometer	3	per sample	$110.97		$332.91
24. Total Organic Carbon		per sample	$32.65		$0.00
K. **Analyses-Air**					
25. BTEX + Naphthalene		per sample	$230.47		$0.00
K. **Analyses-Free Phase Product**					
26. Hydrocarbon Fuel Identification		per sample	$380.92		$0.00
L. **Aquifer Characterization***					
1. Pumping Test		per hour	$24.54		$0.00
2. Slug Test	6	per test	$203.80		$1,222.80
3. Fractured Rock		per test	$106.70		$0.00
M. **Free Product Recovery Rate Test***		each	$40.55		$0.00
N. **Fate/Transport Modeling**					
1. Mathematical Model		each	$106.70		$0.00
2. Computer Model		each	$106.70		$0.00
O. **Risk Evaluation**					
1. Tier I Risk Evaluation		each	$320.10		$0.00
2. Tier II Risk Evaluation		each	$106.70		$0.00
P. **Subsequent Survey***		each	$260.00		$0.00
Q. **Disposal (gallons or tons)***					
1. Wastewater	1000	gallon	$0.60		$600.00
2. Free Product		gallon	$0.53		$0.00
3. Soil Treatment/Disposal	10	ton	$64.02		$640.20
4. Drilling fluids		gallon	$0.45		$0.00
R. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
T. **Tier I Assessment (Use DHEC 3665 form)**					
1. Southeast Region		standard	$11,026.00		$0.00
2. All Other Counties		standard	$12,093.00		$0.00
U. IGWA (Use DHEC 3666 form)					
1. Southeast Region		standard	$3,803.00		$0.00
2. All Other Counties		standard	$4,123.00		$0.00

22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00
W. **Aggressive Fluid & Vapor Recovery (AFVR)**					
1. 8-hour Event*		per event	$1,467.13		$0.00
2. 24-hour Event*		per event	$4,081.28		$0.00
3. 48-hour Event*		per event	$6,706.10		$0.00
4. 96-hour Event*		per event	$13,409.52		$0.00
5. Off-gas Treatment 8 hour		per event	$130.71		$0.00
6. Off-gas Treatment 24 hour		per event	$257.68		$0.00
7. Off-gas Treatment 48 hour		per event	$348.91		$0.00
8. Off-gas Treatment 96 hour		per event	$832.26		$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	$430.00		$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	$500.00		$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	$1,000.00		$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	$2,000.00		$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	$0.50		$0.00
14. AFVR Site Reconnaissance		each	$216.87		$0.00
15. Additional Hook-ups		each	$27.48		$0.00
16. AFVR Effluent Disposal		gallon	$0.47		$0.00
17. AFVR Mobilization/Demobilization		each	$417.73		$0.00
X. **Granulated Activated Carbon (GAC) filter system installation & service:**					
1. New GAC System Installation*		each	$2,027.30		$0.00
2. Refurbished GAC Sys. Install*		each	$960.30		$0.00
3. Filter replacement/removal*		each	$373.45		$0.00
4. GAC System removal, cleaning, & refurbishment*		each	$293.43		$0.00
5. GAC System housing*		each	$266.75		$0.00
6. In-line particulate filter		each	$160.05		$0.00
7. Additional piping & fittings		foot	$1.60		$0.00
Y. **Well Repair**					
1. Additional Copies of the Report Delivered		each	$53.35		$0.00
2. Repair 2x2 MW pad*		each	$53.35		$0.00
3. Repair 4x4 MW pad*		each	$93.90		$0.00
4. Replace well vault*		each	$125.91		$0.00
5. Replace well cover bolts		each	$2.77		$0.00
6. Replace locking well cap & lock		each	$16.00		$0.00
7. Replace/Repair stick-up*		each	$142.98		$0.00
8. Convert Flush-mount to Stick-up*		each	$160.05		$0.00
9. Convert Stick-up to Flush-mount*		each	$138.71		$0.00
10. Replace missing/illegible well ID plate		each	$12.80		$0.00
S. Report Prep & Project Management	12%	percent	$171,752.63		$20,610.32
TOTAL					$192,362.95

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

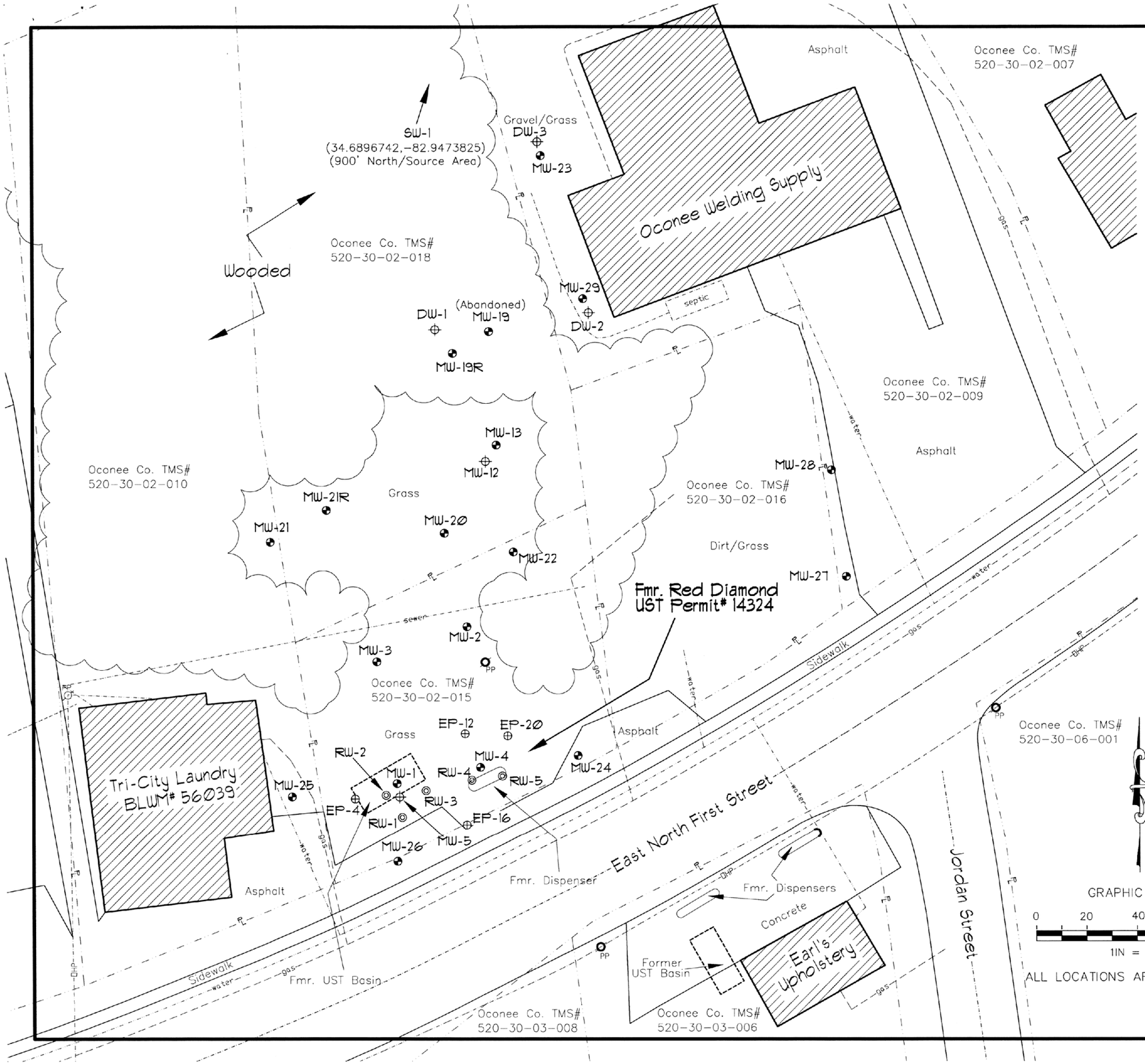
Midlands Environmental Consultants, Inc.

Site Location

Former Red Diamond (UST Unknown #14324)
519 East North First Street, Seneca, SC
SCDHEC Site ID# 14324

Figure 1

MECI 21-7631



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of "Deep" Monitoring Well
- Location of 2-Inch Extraction Point
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- OHP — Overhead Power
- PL — Property Line
- gas — Buried Gas Line
- water — Buried Water Line
- sewer — Buried Sewer/Septic

Drawing Based on MECI Field Notes, Oconee County GIS Data and Figure 1 by Force & Associates, Inc., dated 4/16/03.

Site Base Map

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631
DATE July 21, 2021
FIGURE 2



"SEE FIGURE 2 FOR DETAILED SITE BASE MAP"

Explanation:

- Proposed "Shallow" Field Screening Location
- Proposed Vertical Field Screening Location (Depths will vary with focus on transitional zone)

GRAPHIC SCALE

0 40 80 120 160

1IN = 80FT

ALL LOCATIONS ARE APPROXIMATE

Proposed Field Screening Locations

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631
DATE July 21, 2021
FIGURE 3



"SEE FIGURE 2 FOR DETAILED SITE BASE MAP"

Explanation:

- Proposed "Shallow" Well (40' BGS)
- Proposed "Intermediate" Well (65' BGS)
- Proposed "Deep" Well (90' BGS - Set @ Transition/Refusal)

Final well depths, locations, casings will be dependent on field screening data and approved by the SCDHEC PM

GRAPHIC SCALE

0 40 80 120 160

1IN = 80FT

ALL LOCATIONS ARE APPROXIMATE

Proposed Well Locations

Former Red Diamond (Unknown UST# 14324)
519 East North First Street
Seneca, South Carolina
SCDHEC Site ID 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631
DATE July 21, 2021
FIGURE 4

dhec
Healthy People. Healthy Communities.

NOV 24 2021



BETTY LATHEM – TRUSTEE
2 WEST WASHINGTON STREET
SUITE 1100
GREENVILLE SC 29601

Re: **Additional Assessment Notice to Proceed**
UST – Unknown 14324, 519 East North 1st Street, Seneca, SC
UST Permit #14324; CA #64349; UMW-28617
Release #1 Reported December 30, 1991
Site-Specific Work Plan received July 21, 2021
Oconee County

To Whom It May Concern :

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. The above referenced cost agreement number has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- The scope of work has been changed from a Tier II to monitoring well installation, grain size analysis, and slug testing.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. 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 the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-2622, by fax at (803) 898-0673, or by email at chonkogh@dhec.sc.gov.

Sincerely,

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

enc: Approved Cost Agreement
Monitoring Well Approval Form
Site Map

cc: Midlands Environmental Consultants Inc, Po Box 854, Lexington, SC 29071 (w/ enc)
Technical file (w/ enc)

Healthy People. Healthy Communities.

Monitoring Well Approval

Approval is granted to: Midlands Environmental Consultants Inc
On behalf of: Betty Lathem - Trustee
Facility: UST – Unknown 14324, 519 East North 1st Street, Seneca, SC
UST Permit: #14324
County: Oconee

This approval is for the installation of four shallow, and fourteen deep groundwater monitoring wells. 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 Greg Chonko, the project manager (phone: (803) 898-2622 or email: chonkogh@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: September 7, 2021 **Approval #: UMW-28617**

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

Document Receipt Information

☒ **Hard Copy** ☐ **CD**

Date Received 9-2-22

Permit Number 14324

Project Manager Greg Chonko

Name of Contractor MECI

Docket Title Additional Assessment

Document Number 80 Pages

Scanned _____

ADDITIONAL ASSESSMENT REPORT

UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324
CA # 64349

Prepared By:

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

August 22, 2022

MECI Project No. 21-7631

Midlands Environmental Consultants, Inc.

August 22, 2022

Mr. Greg Chonko, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Additional Assessment Report
UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324, CA# 64349
MECI Project Number 21-7631
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Chonko,

On behalf of Ms. Betty Lathem (Trustee), Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Additional Assessment Report for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

SOUTH CAROLINA REGISTERED PROFESSIONAL GEOLOGIST No. 1102 BRYAN T. SHANE

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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APPENDIX K – DATA VERIFICATION CHECKLIST
APPENDIX L – DETAILED RECEPTOR INFORMATION/SITE PHOTOS

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

i. Facility Information

Name:	UST-Unknown 14324
UST Permit#	14324
Address:	519 East North 1st Street, Seneca, SC 29678
Telephone #:	N/A

ii. Owner/Operator Information

Name	Ms. Betty Lathem (Trustee)
Address	2 West Washington Street, Suite 1100, Greenville, SC 29601
Telephone #	(864) 288-6480

iii. Property Owner Information

Name	Gary Alexander
Tax Map #:	Oconee County Tax Map#: 520-30-02-010
Address	414 Edgewater Drive, Westminster, SC 29693
Telephone #	(864) 719-0477

iv. Contractor Information

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	231 Dooley Road, Lexington, SC 29073
Telephone #:	(803) 808-2043

v. Well Driller Information

Name:	Environmental Drilling & Probing Services, LLC.
Certification #:	Mr. Tommy Bolyard
Address:	B 01846
Telephone #:	17538 Greenhill Road, Charlotte, NC 28278

vi. Laboratory Information

Name:	Eurofins TestAmerica-Savannah
Certification #:	98001
Address:	5102 LaRoche Avenue, Savannah, GA 31404
Telephone #:	(912) 354-7858

vi. Facility History

Release Date:		12/30/1991	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		N/A	
Release Ranking:		3BB	
Current Site Usage:		Vacant Lot	
Tank #	**Capacity/Product**	**In Use/Abandoned**	**Tank Status**
1	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
2	1,000 Gal. Gasoline	Abandoned	Removed (12/19/1991)
3	500 Gal. Kerosene	Abandoned	Removed (12/19/1991)

vii. Regional Geology and Hydrogeology

The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Greenville County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial aquifer. After the water has reached the surficial aquifer, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
SW-1	SW-1 was collected from a creek located approximately 900' feet north-northeast of the site. This creek is an unnamed tributary associated with the Cane Creek. GPS Coordinates for this surface water collection area are: 34.689108, -82.946114
SW-2	SW-2 was collected from a creek located approximately 750' feet north-northeast of the site. This creek is an unnamed tributary associated with the Cane Creek. GPS Coordinates for this surface water collection area are: 34.688505, -82.945634
SW-3	SW-3 was collected from a creek located approximately 650' feet northeast of the site. This creek is an unnamed tributary associated with the Cane Creek. GPS Coordinates for this surface water collection area are: 34.688169, -82.945495
SW-4	SW-4 was collected from a creek located approximately 600' feet east of the site. This creek is an unnamed tributary associated with the Cane Creek. GPS Coordinates for this surface water collection area are: 34.687784, -82.945225
Underground Utilities	
Known underground utilities at the site include buried water, communication, gas and sewer lines.	

ii. Receptor Survey Results

MECI personnel reviewed the surrounding area for a distance of approximately 1,000 feet to determine if there were any potential receptors for the migration of contaminated groundwater. During the review, MECI personnel identified one stream within the search radius. The receptor

search included a driving tour of the area, interviews with available property owners, and review of the U.S. Fish & Wildlife Service's (USFWS) Wetlands Mapper.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Commercial
North	Residential
South	Commercial
East	Commercial
West	Commercial
Permit #'s of UST Sites within 1,000' feet of site	07304, 11419

In addition to the above noted UST facilities known to be located within 1,000' feet of the subject site, the site itself is also documented to have been a former dry-cleaning facility (Tri-City Cleaners-BLMW# 56039). Furthermore, there appears to be an undocumented former gasoline service station located directly south of the subject site at Oconee County Tax Map #520-30-03-006.

iv. Site Specific Geology and Hydrogeology

The mean elevation of the property, as depicted on the local USGS quadrangle (Seneca, South Carolina), appears to be approximately 960 feet above sea level.

According to Horton et al. (Preliminary digital geologic map of the Appalachian Piedmont and Blue Ridge, South Carolina segment), the subject site is located in the Wallhalla Metamorphic Suite. The Wallhalla Metamorphic Suite is compromised predominately of hornblende-plagioclase gneiss and amphibolite with interlayers of biotite-quartz-felspar gneiss in localized undivided settings.

Piedmont soils were encountered during drilling activities conducted at the site. A generalized vertical profile to the investigated depth of 120' feet below ground surface (BGS) is as follows:

Depth (Feet BGS)	**Generalized Soil Description**
0.0'-15.0'	Red/Brown, Silty Fine to Coarse SAND
15.0'-75.0'	Brown, Fine to Medium Sandy Micaceous SILT
Bedrock was encountered at depths ranging from 53.0' feet below ground surface (BGS) in DDW-1 to 82.0' feet BGS in DDW-2.	

The following table presents grain size distribution results from samples analyzed for grain size during the Additional Assessment Activities:

Sample ID#	**Sample Depth**	**% Gravel**	**% Coarse Sand**	**% Medium Sand**	**% Fine Sand**	**% Silt**	**% Clay**
14324-MW32	35.0'-40.0'	3.1	10.0	30.0	32.0	18.9	6.0
14324-DW05	60.0'-65.0'	1.4	6.0	37.0	40.7	11.9	3.0
14324-DDW04	85.0'-90.0'	12.8	23.0	28.0	31.4	3.8	1.0

On August 3, 2022, stabilized groundwater levels were measured in the monitoring well network. Depth to groundwater ranged from 25.13 feet below top of casing (BTOC) to 58.46 feet BTOC in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and presented on Figure 4/4A/4B.

The potentiometric surface indicates that the groundwater flow beneath the site is generally to the east/northeast, toward an unnamed tributary associated with the Cane Creek. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

3.0 ASSESSMENT INFORMATION

3.1 Monitoring Well Installation

From May 10 to July 15, 2022, ten additional monitoring wells were installed at the site. These wells were installed by Environmental Drilling and Probing Services, LLC. of Charlotte, North Carolina, (S.C. Driller Certification: Tommy Bolyard # B 01846). The wells were installed utilizing a Canterra CT-450 Combination Rig.

Shallow monitoring wells were installed as single cased water table bracketing monitoring wells utilizing 7.5"-inch outer diameter hollow stem augers. Double-cased "Intermediate" and "Deep" monitoring wells were installed utilizing 10.0" inch hollow-stem augers for the 6-inch outer casing. The 6-inch outer casing was advanced to the appropriate depth and grouted in-place. The grout was allowed to cure and the remainder of the depth of the borehole was achieved using mud-rotary techniques, employing a 4 5/8"-inch drag bit.

During the installation of monitoring well MW-30, auger refusal was encountered at 49.0' feet BGS. The well was installed at auger refusal; however, groundwater was not encountered after two weeks of wait time. After consultation with SCDHEC, it was decided to abandon the monitoring well due to insufficient water.

The following table presents well installation details:

Well Number	Single Cased	Double Cased	Screened Interval	Total Depth (ft)
*14324-MW30	X		39.0-49.0	49.21'
14324-MW31	X		30.0-40.0	40.18'
14324-MW32	X		30.0-40.0	40.28'
14324-DW04		X	58.0-63.0	62.50'
14324-DW05		X	59.0-64.0	63.90'
14324-DW06		X	60.0-65.0	65.38'
14324-DDW01		X	80.0-120.0	123.10'
14324-DDW02		X	85.0-90.0	89.85'
14324-DDW03		X	85.0-90.0	89.90'
14324-DDW04		X	80.0-85.0	85.06'
*Monitoring well MW-30 was abandoned July 14, 2022 due to insufficient water				

Drill cuttings were containerized and transported to Twin Chimneys Landfill in Honea Path, SC on July 13, July 14 and July 15, 2022 by MECI. A total of 11.20 tons was disposed of in this manner. Disposal manifests for these soils are attached at the end of this report.

On July 21, 2022, the newly installed monitoring wells were developed by pumping until they were determined to be functioning properly and turbidity was reduced. These wells were developed utilizing a Mini-Monsoon well pump and disposable bailer. Development specifics are presented in Appendix

E. The drum of purge water was treated by MECI personnel using a granular activated carbon drum. A total of 81.00 gallons of development water was disposed of in this manner. A disposal manifest for the treated purge water is presented in Appendix G.

3.2 Sampling and Chemical Analyses

On August 2-3, 2022, MECI personnel collected groundwater samples from thirty-two (32) monitoring wells and four (4) surface water locations. Six (6) monitoring wells (MW-2, RW-1, RW-3, RW-4, RW-5 and EP-16) were gauged and determined to contain measurable free phase petroleum product. At the request of SCDHEC, all monitoring wells were to be purged prior to sample collection. Thirty-one (31) monitoring wells were purged prior to sample collection. Monitoring well DDW-1 was sampled utilizing a Hydrasleeve™ tether compromising of five discreet sampling depths (83.5', 92.5', 102.5', 112.5' and 119.5').

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Unless otherwise noted (DDW-1), sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSI Pro20 meter for DO (mg/L) and temperature readings (^{o}C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets present the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of Standard Operating Procedures.

The following sampling matrix summarizes well development and requested analyses for each monitoring well:

Sample ID	Purge	No Purge	Gauge Only	Field Duplicate/Blank	Hydrasleeve™	Well Abandoned	BTEX, Naphthalene, MTBE (EPA Method 8260-D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-D)	8 Oxygenates (EPA Method 8260-D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)	PAHs (EPA Method 8270D)
							Analyte Sampled							
MW-1	X						X	X	X	X				
MW-2	X						X	X	X	X				
MW-3						X								
MW-4	X						X	X	X	X				
MW-5	X						X	X	X	X				
MW-8						X								
MW-12	X						X	X	X	X				
MW-13	X						X	X	X	X				
MW-19R	X						X	X	X	X				

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Field Duplicate/Blank	Hydrasleeve™	Well Abandoned	BTEX, Naphthalene, MTBE (EPA Method 8260-D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-D)	8 Oxygenates (EPA Method 8260-D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)	PAHs (EPA Method 8270D)
							Analyte Sampled							
MW-20	X						X	X	X	X				
MW-21R	X						X	X	X	X				
MW-22	X						X	X	X	X				
MW-23	X						X	X	X	X				
MW-24	X						X	X	X	X				
MW-25	X						X	X	X	X				
MW-26			X											
MW-27	X						X	X	X	X				
MW-28	X						X	X	X	X				
MW-29	X						X	X	X	X				
MW-30						X								
MW-31	X						X	X	X	X				
MW-32	X						X	X	X	X				
DW-1	X						X	X	X	X				
DW-2	X						X	X	X	X				
DW-3	X						X	X	X	X				
DW-4	X						X	X	X	X				
DW-5	X						X	X	X	X				
DW-6	X						X	X	X	X				
DDW-1 (83.5')					X		X	X	X	X				
DDW-1 (92.5')					X		X	X	X	X				
DDW-1 (102.5')					X		X	X	X	X				
DDW-1 (112.5')					X		X	X	X	X				
DDW-1 (119.5')					X		X	X	X	X				
DDW-2	X						X	X	X	X				
DDW-3	X						X	X	X	X				
DDW-4	X						X	X	X	X				
RW-1			X											
RW-2	X						X	X	X	X				
RW-3			X											
RW-4			X											
RW-5			X											
EP-4	X						X	X	X	X				
EP-12	X						X	X	X	X				
EP-16			X											
EP-20	X						X	X	X	X				
SW-1		X					X	X	X	X				
SW-2		X					X	X	X	X				
SW-3		X					X	X	X	X				
SW-4		X					X	X	X	X				
DUP-1(MW-12)				X			X	X	X	X				
DUP-2(RW-2)				X			X	X	X	X				
Field Blank				X			X	X	X	X				
Trip Blank 1							X		X	X				
Trip Blank 2							X		X	X				

Notes: **BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes**
MTBE=Methyl tertiary butyl ether
1,2 DCA = 1,2 Dichloroethane
EDB = Ethylene Dibromide

The results of the laboratory analyses are summarized in Table 1 and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 347.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix G and the required post-GAC laboratory results in presented in Appendix B.

3.3 Inflow Permeability Tests

Inflow permeability tests were performed on monitoring wells MW-19R, MW-32, DW-4, DW-6, DWW-3 and DWW-4 on August 2-3, 2022 to estimate the hydraulic conductivity of the formation materials exposed to the well screen at each location. Inflow test methodology and calculations are presented on Table 3 and included in Appendix F.

3.4 Site Survey

Following monitoring well installation, a comprehensive survey was conducted by Construction Support Services of Columbia, SC (Jay S. Joshi PLS# 14811) dated August 11, 2022, to locate the vertical and horizontal positions of the monitoring wells and relevant structures.

4.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

4.1 Analytical Results

Free phase petroleum product was detected in monitoring wells MW-26 (0.35'), RW-1 (0.01'), RW-3 (0.01'), RW-4 (0.01'), RW-5 (0.01') and EP-1 (0.01'). Samples were not collected beneath the light non-aqueous phased liquid (LNAPL) layer.

- The analytical results indicate petroleum impact to the "shallow" zone of surficial aquifer, with the highest dissolved concentrations being detected in the area of the former UST system.

- The analytical results indicate petroleum impact to the "intermediate" zone of surficial aquifer, with the highest dissolved concentrations being detected in the area of DW-2.

- The analytical results indicate petroleum impact to the "deep" zone, with the highest dissolved concentrations being detected in the area of DWW-4.

Of the thirty-six sampling locations analyzed, twenty-two monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-25, MW-29, DW-1, DW-2, DW-3, DW-4, DW-6, DDW-4, RW-2, EP-4, EP-12 and EP-20) detected petroleum constituents above Risked Based Screening Levels (RBSL's).

Petroleum constituents detected above the established RBSL include:

Compound	***RBSL (ug/l)***	***Wells Above RBSL***
Product	>0.01'	MW-26, RW-1, RW-3, RW-4, RW-5 & EP-16
Benzene	5	MW-2, MW-4, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, MW-25, MW-29, DW-1, DW-2, DW-3, DW-4, DW-6, DDW-4, EP-4, EP-12 & EP-20
Toluene	1,000	MW-2, MW-4, MW-5, MW-12, MW-13, MW-22, MW-24, DW-2, EP-4, EP-12 & EP-20
Ethylbenzene	700	MW-2, MW-4, MW-12, MW-13, MW-22, MW-24, DW-2, EP-4, EP-12 & EP-20
Total Xylenes	10,000	MW-4, MW-22, EP-12 & EP-20
Naphthalene	25	MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-20, MW-22, MW-24, MW-19, DW-1, DW-4, RW-2, EP-4, EP-12 & EP-20
MTBE	40	N/A
1,2 DCA	5	MW-12, MW-13, MW-24, DW-1, DW-3, DW-4, DW-6 & DDW-4
EDB	0.05	MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-29, DW-1, DW-2, DW-3, DW-4, DW-6, DDW-4, EP-12 & EP-20
TAA	240	DW-1, DW4 & DW-6
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	DW-6
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results also detected petroleum constituents above the laboratory method detection limits and/or "J" values in samples collected from MW-27, MW-28, MW-32, DW-5, DDW-2, DDW-3, SW-2 and SW-4; however, the concentrations detected did not exceed the RBSL. The results of the analyses for each monitoring well and specific parameters are listed on Table 1 and provided in Appendix B.

4.2 Aquifer Evaluation

As discussed in section 3.3, inflow permeability tests were performed on monitoring wells MW-19R, MW-32, DW-4, DW-6, DWW-3 and DWW-4 on August 2-3, 2022 to estimate the hydraulic conductivity of the formation materials exposed to the well screen at each location. Inflow test methodology and calculations are presented on Table 3 and included in Appendix F.

4.2.1 Hydraulic Conductivity

Hydraulic conductivity is defined as the ability of the aquifer material to conduct water under a hydraulic gradient. Six slug tests were performed on monitoring wells MW-19R, MW-32, DW-4, DW-6, DWW-3 and DWW-4 to determine the in-situ hydraulic conductivity of the aquifer and were evaluated using the Bouwer-Rice method for the aquifer. The average hydraulic conductivity values were determined to be 1.093×10^{-5} cm/sec in the "shallow" zone, 1.588×10^{-5} cm/sec in the "intermediate" zone and 1.011×10^{-5} cm/sec in the "deep" zone.

The test results are as follows:

Well Number	Type of Material Exposed to Screened Interval	Hydraulic Conductivity (K) (cm/sec)
MW-19R	Medium SAND	1.082×10^{-5}
MW-32	Medium SAND	1.104×10^{-5}
DW-4	Medium SAND	7.584×10^{-6}
DW-6	Medium SAND	2.418×10^{-5}
DDW-3	Medium SAND	1.127×10^{-5}
DDW-4	Medium SAND	8.956×10^{-6}

Notes: Field tests were reduced and the hydraulic conductivities computed using AQTESOLV Std.

4.2.2 Hydraulic Gradients

The horizontal hydraulic gradient is determined by dividing the difference in groundwater elevations at two locations by the horizontal distance between those locations along the direction of groundwater flow. The horizontal hydraulic gradient in the "shallow" zone was determined to be approximately 2.74×10^{-2} feet/feet between groundwater monitoring wells MW-1/MW-31, approximately 2.66×10^{-2} feet/feet between groundwater monitoring wells MW-5/DW-4 in the "intermediate" zone and it was determined to be approximately 1.41×10^{-1} feet/feet in the "deep" zone between groundwater monitoring wells DDW-2/DDW-3.

The vertical gradient from the shallow well to a deeper well represents the difference in hydraulic head (in feet) divided by the distance between the midpoints of the screened intervals (in feet). Current data reveals vertical flow gradients at the site area are generally flat.

4.2.3 Effective Porosity

Fetter (1980) defines effective porosity as "The amount of interconnected pore space through which fluids can pass, expressed as a percent of bulk volume. Part of the total porosity will be occupied by static fluid being help to the mineral surface by surface tension, so effective porosity will be less than total porosity". Effective porosity can be estimated using the results of a tracer test. Although this is potentially the most accurate method, time and monetary constraints can be prohibitive, therefore the most common technique is to use an accepted literature value for the types of materials making up the aquifer matrix.

An effective porosity value of 0.32 was estimated for the wells which were screened in a Medium SAND. Effective porosity values of the Medium SAND formation were estimated based on published values of effective porosity (McWorter and Sunada 1977).

4.2.4 Groundwater Flow Velocity

In addition to hydraulic gradients (i), the rates of groundwater movement(v) are a function of hydraulic conductivity(k) and effective porosity(ne), as indicated by the equation $v = ki/ne$. Based on those parameters, the average lateral groundwater movement in the sands at the site can be expected to be approximately 0.97 feet per year in the "shallow zone", 1.37 feet per year in the "intermediate" zone and 4.63 feet per year in the "deep" zone. The rate of migration of the dissolved organic constituent(s), however, may be substantially slower than groundwater itself, due to retardation (Freeze and Cherry, 1979, pp. 402-408) and intrinsic aerobic biodegradation (Bucheck

et. al., 1993). The hydraulic gradient and groundwater velocity calculations are provided on Table 3 and in Appendix F.

5.0 ASSESSMENT SUMMARY

- Based on the results of Additional Assessment Activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The contaminants appear to be gasoline range constituents.

- Impacted groundwater appears to be flowing to the north/northeast toward an unnamed tributary associated with the Cane Creek.

- One stream was identified within a 1,000' radius of the source area. No production wells were identified within 1,000' feet of the site.

- Ten additional monitoring wells were installed at the site to better define the contaminant plume emanating from the site; however, the monitoring well labeled MW-30 did not contain sufficient water on top of the rock interface for sampling purposes and this well was properly abandoned.

- Free phase petroleum product was detected in monitoring wells MW-26 (0.35'), RW-1 (0.01'), RW-3 (0.01'), RW-4 (0.01'), RW-5 (0.01') and EP-1 (0.01'). Samples were not collected beneath the light non-aqueous phased liquid (LNAPL) layer.

- Samples were collected from thirty-two monitoring wells and four surface water locations. Of the thirty-six sampling locations analyzed, twenty-two monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-12, MW-13, MW-19R, MW-20, MW-22, MW-24, MW-25, MW-29, DW-1, DW-2, DW-3, DW-4, DW-6, DDW-4, RW-2, EP-4, EP-12 and EP-20) detected petroleum constituents above Risked Based Screening Levels (RBSL's). The analytical results also detected petroleum constituents above the laboratory method detection limits and/or "J" values in samples collected from MW-27, MW-28, MW-32, DW-5, DDW-2, DDW-3, SW-2 and SW-4; however, the concentrations detected did not exceed the RBSL. Constituents of concern include Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, 1,2 DCA, EDB, TAA and DIPE.

- Inflow permeability tests were performed on monitoring wells MW-19R, MW-32, DW-4, DW-6, DWW-3 and DWW-4 to determine the in-situ hydraulic conductivity of the aquifer and were evaluated using the Bouwer-Rice method for the aquifer. The average hydraulic conductivity values were determined to be 1.093×10^{-5} cm/sec in the "shallow" zone, 1.588×10^{-5} cm/sec in the "intermediate" zone and 1.011×10^{-5} cm/sec in the "deep" zone.

- The horizontal hydraulic gradient in the "shallow" zone was determined to be approximately 2.74×10^{-2} feet/feet between groundwater monitoring wells MW-1/MW-31, approximately 2.66×10^{-2} feet/feet between groundwater monitoring wells MW-5/DW-4 in the "intermediate" zone and it was determined to be approximately 1.41×10^{-1} feet/feet in the "deep" zone between groundwater monitoring wells DDW-2/DDW-3. Current data reveals vertical flow gradients at the site area are generally flat.

- The average lateral groundwater movement in the sands at the site can be expected to be approximately 0.97 feet per year in the "shallow zone", 1.37 feet per year in the "intermediate" zone and 4.63 feet per year in the "deep" zone.

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples MW-12 and RW-2 The precision for the target analytes were met for MW-12/DUP-1 and the analytical results detected the same compounds at similar concentrations. The precision for the target analytes were not met for RW-2/DUP-2 due to the RPD of Toluene, Ethylbenzene, Xylenes, Naphthalene which, low-level results, skewed the calculations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. Low level, detectable EDB J-flagged concentrations were detected in the field blank; however, this does not appear to be significant because the field blank concentration for EDB is extremely low (less than the laboratory reporting limits) and does not appear to negatively affect the usability of the data. No detectable concentrations of the requested method constituents were reported in either of the trip blanks.

6.0 COMMENTS & RECOMMENDATIONS

- Based on the current analytical data, the contaminant plume does not appear to be defined horizontally or vertically in relation to RBSL's.

- Upon review of current and historical chemicals of concern (CoC) data, our findings indicate that CoC concentrations have generally increased and free phase petroleum product has re-emerged since the April 2020 groundwater sampling event. These increases are most likely attributed seasonal fluctuations in the overall groundwater table.

- MECI recommends a series of Aggressive Fluid Vapor Recovery (AFVR) Events be completed to remove free phase petroleum product and reduce elevated CoC concentrations in the source area. Following the proposed AFVR event, a comprehensive sampling event should be completed along with remodeling of the subject site in order to establish up to date Site Specific Target Levels (SSTL's).

- Once SSTL's have been established, MECI recommends additional assessment be completed at the site. Additional assessment activities may include: definition of the "shallow" zone to the south, southeast and west of the source area; definition of the "intermediate" zone in all directions; and, definition of the "deep" zone to the east, west and south. It should be noted that monitoring wells installed in association with UST#07304 and UST#11419 may aid in defining the plume upgradient and to the west of the source area of UST# 14324.

- Lastly, due to the close vicinity of the source area of UST# 14324 and the Tri-City Dry-Cleaning Facility (BLMW#56039), MECI proposes full-list 8260 compounds be analyzed during the next groundwater sampling event to determine if dry-cleaning solvents are present within the well network associated with UST# 14324 and whether the presence of heavier solvents may be associated with the vertical migration of petroleum compounds.

7.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of the Ms. Betty Latham (Trustee), SCDHEC, and MECI under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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TABLES

TABLE 1
GROUNDWATER COC COCENTRATION DATA
AUGUST 2-3, 2022 SAMPLING EVENT
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Well ID#	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
		RBSL 5	***RBSL 1,000***	***RBSL 700***	***RBSL 10,000***	***RBSL 25***	***RBSL 40***	***RBSL 5***	***RBSL 0.05***	***RBSL 240***	***RBSL 128***	***RBSL NE***	***RBSL 1,400***	***RBSL NE***	***RBSL 150***	***RBSL 10,000***	***RBSL 47***
MW-1	8/10/13	<100	**130**	**819**	**6,610**	**393**	<100	NT	**0.33**	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<125	**159**	**1,220**	**9,360**	**774**	<125	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	<100	**139**	**847**	**7,070**	**630**	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	<5.0	<5.0	**60.8**	**215**	**37.5**	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	8/3/22	<0.270	**0.741 J**	**78.2**	**227**	**49.2**	<0.810	<0.250	<0.00490	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-2	8/10/13	**3770**	**6000**	**369**	**2436**	**102**	<5	NT	**61.20**	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	**4430**	**10200**	**1220**	**6990**	**542**	<250	NT	**61.10**	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**13200**	**24200**	**1540**	**11400**	**529**	<50.0	<50.0	**201**	5,520	<100	<1,000	<1,000	<500	<50.0	<2,000	<100
	5/30/18	**13300**	**27500**	**2350**	**12600**	**809J**	<1,000	<1,000	**261**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
	4/7/20	**12500**	**30500**	**2150**	**11200**	**646J**	<1,250	<1,250	**107**	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
	8/3/22	**2720**	**10000**	**1590**	**9090**	**611**	<81.0	<25.0	**13.7**	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
MW-3	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**259**	**3,390**	**1,230**	**6,020**	**374**	<25.0	<25.0	<0.020	<500	<50.0	<50.0	<500	<250	<25.0	<1,000	<50.0
	5/30/18	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	8/10/13	443	1,530	163	7,980	1,080	<50	NT	196	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**21500**	**26100**	**1220**	**10900**	**1050**	<125	**93.9J**	**687**	**4170**	<250	<2,500	<2,500	<1,250	**156**	<5,000	<250
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	**3410**	**8470**	**594J**	**5420**	**507J**	<625	<625	**113**	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
	8/3/22	**11100**	**22600**	**1580**	**10900**	**1030**	<162	<50.0	**69.2**	<1720	<156	<1400	<1380	<1380	<140	<10000	<144
MW-5	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	**5.60**	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**18100**	**33900**	**1520**	**8040**	**516**	<125	<125	**122**	**4340**	<250	<2500	<2,500	<1,250	<125	<5,000	<250
	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.096**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	**3340**	**6990**	**609**	**3110**	**174J**	<250	<250	**13.3**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
	8/3/22	**979**	**1610**	**315**	**1470**	**91.8**	<8.10	<2.50	**9.50**	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
MW-8	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.030	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**6400**	**12000**	**817**	**5650**	**247**	<25.0	**44.7**	**23.1**	**1550**	<50.0	<500	<500	<250	**38.6**	<1,000	<50.0
	5/30/18	**7340**	**18900**	**1190**	**6770**	**404J**	<625	<625	**154**	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
	4/7/20	**3090**	**9320**	**628**	**3130**	**213J**	<250	<250	**14.7**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
	8/3/22	**3290**	**11400**	**982**	**5610**	**543**	<81.0	**57.2 J**	**20.1**	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
MW-13	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	**2610**	**7620**	**1220**	**7420**	**629**	<125	<125	**43.2**	<2,500	<250	<2,500	<2,500	<1250	<125	<5,000	<250
	5/30/18	**2280**	**3190**	**427**	**3370**	**171**	<100	<100	**38.6**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	4/7/20	**1050**	**2770**	**260**	**1700**	**146**	<125	<125	**16.7**	<2,500	<250	<2,500	<2,500	<1,250	<125	<5,000	<250
	8/3/22	**3350**	**6840**	**960**	**5070**	**400**	<40.5	**20.3 J**	**24.9**	<430	<39.0	<350	<345	<345	<35.0	<2500	<36.0
MW-19	8/10/13	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	11/6/13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT	NT	NT	NT	NT
	3/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.025	<100	<10.0	<100	<100	<50.0	<5.0	**5910**	<10.0
	4/7/20	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-19R	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.040**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.089**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	8/3/22	<0.270	<0.250	**0.418 J**	**27.4**	**5.35**	<0.810	**0.258 J**	**0.151**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

TABLE 1
GROUNDWATER COC COCENTRATION DATA
AUGUST 2-3, 2022 SAMPLING EVENT
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Well ID#	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
		RBSL 5	***RBSL 1,000***	***RBSL 700***	***RBSL 10,000***	***RBSL 25***	***RBSL 40***	***RBSL 5***	***RBSL 0.05***	***RBSL 240***	***RBSL 128***	***RBSL NE***	***RBSL 1,400***	***RBSL NE***	***RBSL 150***	***RBSL 10,000***	***RBSL 47***
MW-20	5/30/18	**38.9**	**3.2J**	**6.9**	**31.7**	**3.9J**	<5.0	<5.0	**0.17**	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	**316**	**15.4**	**83.3**	**546**	**60.5**	<12.5	<12.5	**1.10**	<250	<25.0	<250	<250	<125	<12.5	<500	<25.0
	8/3/22	**416**	**44.3**	**232**	**1520**	**169**	<8.10	<2.50	**1.19**	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
MW-21	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-21R	4/7/20	<5.0	**2.8J**	<5.0	<5.0	**2.5J**	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-22	5/30/18	**338**	**731**	**58**	**399**	**16.3J**	<25.0	<25.0	**3.8**	<500	<50.0	<500	<500	<250	<25.0	<1,000	<50.0
	4/7/20	**2550**	**5790**	**317**	**1,820**	**141J**	<200	<200	**29.0**	<4,000	<400	<4,000	<4,000	<2,000	<200	<8,000	<400
	8/3/22	**6310**	**18300**	**2060**	**10700**	**420 J**	<81.0	<25.0	**44.8**	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
MW-23	5/30/18	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00526	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-24	5/30/18	**14**	**17**	**1.8J**	**24**	<5.0	<5.0	**6.4**	**2.9**	<100	<10.0	<100	<100	<50.0	**2.5J**	<200	<10.0
	4/7/20	**6730**	**6630**	**486**	**3150**	**187J**	<200	**508**	**207**	**3500J**	<400	<4,000	<4,000	<2,000	**165J**	<8,000	<400
	8/3/22	**4760**	**9790**	**1350**	**8740**	**543**	<40.5	**251**	**156**	<430	<39.0	<350	<345	<345	**101 J**	<2500	<36.0
MW-25	5/30/18	**4.4J**	**9.5**	**8.7**	**50.2**	<5.0	<5.0	<5.0	<0.019	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	4/7/20	**2.5J**	<5.0	**13.9**	**70.2**	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	8/3/22	**10.7**	**72.1**	**56.5**	**174**	<2.40	<0.810	<0.250	**0.0260**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-26	5/30/18	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
	4/7/20	**7,130**	**21,100**	**1,320**	**10,200**	**991**	<625	<625	**109**	<12,500	<1,250	<12,500	<12,500	<6,250	<625	<25,000	<1,250
	8/3/22	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
MW-27	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100.0	<50.0	<5.0	<200	<10.0
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.0103 J**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-28	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10.0	<100	<100.0	<50.0	<5.0	<200	<10.0
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.00966 J**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-29	4/7/20	**4,290**	**5,570**	**907**	**5,300**	**377**	<250	<250	<0.020	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
	8/3/22	**218**	**213**	**81.4**	**472**	**195 J**	<40.5	<12.5	**14.5**	<430	<39.0	<350	<345	<345	<35.0	<2500	<36.0
MW-30	8/3/22	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-31	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.0515	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-32	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	**1.54**	**0.0327**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DW-1	5/30/18	**2240**	**1260**	**161**	**1130**	**88.5J**	<100	<100	**10.7**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	4/7/20	**2550**	**1660**	**209**	**1140**	**114**	<100	<100	**9.2**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	8/3/22	**2420**	**49.8**	**75.4**	**627**	**27.4**	<0.810	**19.7**	**8.42**	**746**	<0.780	<7.00	<6.90	<6.90	**24.9**	<50.0	<0.720
DW-2	4/7/20	**12800**	**10100**	**1050**	**6090**	**401J**	<500	<500	**79.2**	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
	8/3/22	**8560**	**7790**	**874**	**5040**	<480	<162	<50.0	**55.9**	<1720	<156	<1400	<1380	<1380	<140	<10000	<144
DW-3	4/7/20	**307**	<12.5	<12.5	**237**	**12.0J**	<12.5	**6.5J**	**1.6**	<250	<25.0	<250	<250	<125	<12.5	<500	<25.0
	8/3/22	**138**	<0.250	<0.200	**194**	**11.2**	<0.810	**5.60**	**0.979**	**140**	<0.780	<7.00	**13.0 J**	<6.90	**6.41 J**	<50.0	<0.720
DW-4	8/3/22	**1370**	**9.13**	**5.18**	**517**	**76.7**	<0.810	**31.1**	**2.36**	**777**	<0.780	<7.00	<6.90	<6.90	**29.9**	<50.0	<0.720
DW-5	8/3/22	<0.270	<0.250	<0.200	<0.230	**6.74**	<0.810	**0.284 J**	**0.0102 J**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DW-6	8/3/22	**1980**	**466**	<10.0	**460**	<120	<40.5	**234**	**9.61**	**3050**	<39.0	<350	<345	<345	**151 J**	<2500	<36.0
DDW-1 (83.5')	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00519	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (92.5')	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00519	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (102.5')	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (112.5')	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00513	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (119.5')	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00499	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-2	8/3/22	**2.74**	<0.250	<0.200	**0.978 J**	<2.40	<0.810	**0.501 J**	<0.00506	**9.71 J**	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-3	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.00626 J**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-4	8/3/22	**33.7**	<0.250	<0.200	<0.230	<2.40	<0.810	**12.4**	**0.256**	**235**	<0.780	<7.00	**41.0 J**	<6.90	**9.29 J**	<50.0	<0.720

TABLE 1
GROUNDWATER COC COCENTRATION DATA
AUGUST 2-3, 2022 SAMPLING EVENT
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Well ID#	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	TAA (µg/l)	TAME (µg/l)	ETBA (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
		RBSL 5	***RBSL 1,000***	***RBSL 700***	***RBSL 10,000***	***RBSL 25***	***RBSL 40***	***RBSL 5***	***RBSL 0.05***	***RBSL 240***	***RBSL 128***	***RBSL NE***	***RBSL 1,400***	***RBSL NE***	***RBSL 150***	***RBSL 10,000***	***RBSL 47***
RW-1	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	**10,200**	**33,900**	**2,830**	**16,300**	**887J**	<1,000	<1,000	**125**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
	8/3/22	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-2	5/30/18	<100	**861**	**936**	**5,700**	**263**	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	4/7/20	<10.0	**34**	**121**	**563**	**52.5**	<10.0	<10.0	<0.020	<200	<20.0	<200	<200	<100	<10.0	<400	<20.0
	8/3/22	<2.70	**45.1**	**195**	**947**	**88.5**	<8.10	<2.50	<0.00507	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
RW-3	5/30/18	**1,020**	**4,120**	**2,550**	**14,900**	**686**	<250	<250	**0.66**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
	4/7/20	**449**	**2,090**	**2,980**	**13,100**	**471**	<200	<200	**0.81**	<4,000	<400	<4,000	<4,000	<2,000	<200	<8,000	<400
	8/3/22	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-4	5/30/18	**30,600**	**38,600**	**2,700**	**14,000**	**956J**	<1,250	**562J**	**1,850**	<25,000	<2,500	<25,000	<25,000	<12,500	**694J**	<50,000	<2,500
	4/7/20	**15,400**	**29,000**	**2,060**	**13,200**	**764J**	<1,000	<1,000	**40.7**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
	8/3/22	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-5	5/30/18	**28,800**	**36,600**	**2,430**	**12,400**	**614J**	<1,250	<1,250	**612**	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
	4/7/20	**16,600**	**27,400**	**1,740**	**10,800**	**702J**	<1,250	<1,250	**230**	<25,000	<2,500	<25,000	<25,000	<12,500	<1,250	<50,000	<2,500
	8/3/22	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
EP-4	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**155**	**4830**	**1730**	**9990**	**897**	<100	<100	<0.020	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
	5/30/18	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
	4/7/20	**21.2J**	**633**	**606**	**3250**	**270**	<50.0	<50.0	<0.020	<1,000	<100	<1,000	<1,000	<500	<50.0	<2,000	<100
	8/3/22	**85.8 J**	**1750**	**1010**	**5380**	**365 J**	<81.0	<25.0	**0.0165 J**	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
EP-12	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**8600**	**16600**	**1060**	**12600**	**1380**	<625	<625	**298**	<12,500	<1,250	<12,500	<12,500	<6250	<625	<25,000	<1,250
	5/30/18	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/7/20	**2890**	**6410**	**428**	**6910**	**599**	<250	<250	**40.8**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
	8/3/22	**6650**	**28300**	**9880**	**123000**	**33100**	<1620	<500	**103**	<17200	<1560	<14000	<13800	<13800	<1400	<100000	<1440
EP-16	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**4540**	**9720**	**1140**	**16400**	**31800**	<500	<500	**876**	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
	5/30/18	**7010**	**13200**	**1050**	**13500**	**1260**	<500	<500	**457**	<10,000	<1,000	<1,000	<10,000	<5,000	<500	<20,000	<1,000
	4/7/20	**1900**	**5170**	**375**	**7160**	**609**	<250	<250	**91.9**	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<250
	8/3/22	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
EP-20	8/10/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/6/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/12/15	**7730**	**16100**	**550**	**13000**	**1610**	<250	**156J**	**604**	<5,000	<500	<5,000	<5,000	<2,500	**99.1J**	<10,000	<500
	5/30/18	**7810**	**9720**	**290J**	**15600**	**1290**	<500	<500	**704**	<10,000	<1,000	<1,000	<10,000	<5,000	**173J**	<20,000	<1,000
	4/7/20	**6050**	**12500**	**691**	**12500**	**817**	<500	<500	**182**	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
	8/3/22	**14700**	**30700**	**1780**	**17500**	**1240 J**	<203	<62.5	**412**	<2150	<195	<1750	<1730	<1730	<175	<12500	<180
SW-1	4/7/20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	<100	<10.0	<100	<100	<50.0	<1.0	<200	<10.0
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
SW-2	8/3/22	**0.546 J**	<0.250	<0.200	<0.230	<2.40	<0.810	**0.303 J**	<0.0503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
SW-3	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00500	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
SW-4	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.0503**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP (EP-16)	3/12/15	**5150**	**10800**	**1300**	**17400**	**1960**	<500	<500	**876**	<10,000	<1,000	<10,000	<10,000	<5,000	<500	<20,000	<1,000
DUP-1 (MW-13)	5/30/18	**3010**	**3370**	**570**	**3960**	**528**	<100	<100	**58.1**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DUP-1 (MW-13)	4/7/20	**1250**	**3060**	**297**	**1890**	**147**	<100	<100	**15.7**	<2,000	<200	<2,000	<2,000	<1,000	<100	<4,000	<200
DUP-2 (MW-2)	4/7/20	**12800**	**30800**	**2160**	**11200**	**595J**	<1,000	<1,000	**102**	<20,000	<2,000	<20,000	<20,000	<10,000	<1,000	<40,000	<2,000
DUP-1 (MW-12)	8/3/22	**3180**	**12000**	**1070**	**5800**	**436 J**	<81.0	**55.7 J**	**19.2**	<860	<78.0	<700	<690	<690	**72.2 J**	<5000	<72.0
DUP-2(RW-2)	8/3/22	<2.70	**102**	**288**	**1520**	**110**	<8.10	<2.50	**0.0298**	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
Field Blank	3/12/15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.28**	<100	<10	<100	<100	<100	<10	<1,000	<100
	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.022**	<100	<10	<100	<100	<100	<5	<1,000	<100
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<100	<10	<100	<100	<100	<5	<200	<100
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.00591 J**	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
Trip Blank	3/12/15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<10	<1,000	<100
	5/30/18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<5	<1,000	<100
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<10	<200	<100
	4/7/20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	<100	<10	<100	<100	<100	<5	<200	<100
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	8/3/22	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

Notes:

1. BDL = Below Practical Quantitative Limits
2. ug/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NL = Not Located
7. DRY = Well was Dry at the time of Sampling
8. NT = Not Tested.
9. EDB = Ethylene Dibromide
10. 1,2 DCA = 1,2-Dichloroethane
11. PROD = Free Phase Petroleum Product
12. * = Sample collected beneath Product
13. "J" Values used in Total BTEX Calculations
14. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
15. B = Detected in Method Blank
16. S = MS/MSD Failure
17. P = The RPD between the two columns exceeds 40%.
18. DIPE = Diisopropyl Ether
19. ETBE = Ethyl ter-butyl Ether
20. TAA = tert-Amyl Alcohol
21. TAME = tert-Amyl Methyl Ether
22. TBA = ter-Butyl Alcohol
23. TBF = tert-Butyl Formate
24. ETBA = 3,3-Dimethyl-1-Butanol
25. ABD. = Well Has been Abandoned

TABLE 2
POTENTIOMETRIC DATA
AUGUST 2-3, 2022 SAMPLING EVENT
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-1	8/10/2013	25-40	---	26.50	---	936.88	910.38
	11/6/2013		---	26.77	---		910.11
	3/12/2015		---	27.31	---		909.57
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	4/7/2020		---	23.49	---		913.39
	8/3/2022		---	27.85	---		909.03
MW-2	8/10/2013	30-40	---	29.00	---	937.19	908.19
	11/6/2013		---	28.20	---		908.99
	3/12/2015		---	29.46	---		907.73
	6/24/2015		---	NM	---		NM
	5/30/2018		---	31.01	---		906.18
	4/7/2020		---	26.22	---		910.97
	8/3/2022		---	29.19	---		908.00
MW-3	8/10/2013	30-40	---	27.80	---	ABANDONED	N/A
	11/6/2013		---	27.12	---		N/A
	3/12/2015		---	28.07	---		N/A
	6/24/2015		---	NM	---		NM
	5/30/2018		---	ABANDONED	---		ABANDONED
	4/7/2020		---	ABANDONED	---		ABANDONED
	8/3/2022		---	ABANDONED	---		ABANDONED
MW-4	8/10/2013	30-40	---	28.34	---	937.64	909.30
	11/6/2013		---	NS	---		NS
	3/12/2015		---	28.81	---		908.83
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	4/7/2020		---	24.96	---		912.68
	8/3/2022		---	28.57	---		909.07
MW-5	8/10/2013	60-65	---	27.26	---	936.64	909.38
	11/6/2013		---	26.78	---		909.86
	3/12/2015		---	27.89	---		908.75
	6/24/2015		---	NM	---		NM
	5/30/2018		---	29.29	---		907.35
	4/7/2020		---	24.10	---		912.54
	8/3/2022		---	28.45	---		908.19
MW-8	8/10/2013	N/A	---	37.08	---	ABANDONED	N/A
	11/6/2013		---	36.44	---		N/A
	3/12/2015		---	ABANDONED	---		ABANDONED
	4/7/2020		---	ABANDONED	---		ABANDONED
	8/3/2022		---	ABANDONED	---		ABANDONED
MW-12	8/10/2013	60-65	---	32.22	---	937.69	905.47
	11/6/2013		---	31.10	---		906.59
	3/12/2015		---	32.55	---		905.14
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.75	---		902.94
	4/7/2020		---	29.03	---		908.66
	8/3/2022		---	32.15	---		905.54
MW-13	8/10/2013	36-46	---	32.03	---	937.99	905.96
	11/6/2013		---	31.45	---		906.54
	3/12/2015		---	34.15	---		903.84
	6/24/2015		---	NM	---		NM
	5/30/2018		---	34.41	---		903.58
	4/7/2020		---	29.55	---		908.44
	8/3/2022		---	32.51	---		905.48
MW-19	8/10/2013	35-45	---	33.20	---	ABANDONED	N/A
	11/6/2013		---	31.73	---		N/A
	3/12/2015		---	OBSTRUCTION	---		OBSTRUCTION
	6/24/2015		---	ABANDONED	---		ABANDONED
	4/7/2020		---	ABANDONED	---		ABANDONED
	8/3/2022		---	ABANDONED	---		ABANDONED

TABLE 2
POTENTIOMETRIC DATA
AUGUST 2-3, 2022 SAMPLING EVENT
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-19R	6/24/2015	30-40	---	34.08	---	937.63	903.55
	5/30/2018		---	34.80	---		902.83
	4/7/2020		---	29.78	---		907.85
	8/3/2022		---	32.73	---		904.90
MW-20	6/24/2015	30-40	---	33.92	---	936.87	902.95
	5/30/2018		---	32.30	---		904.57
	4/7/2020		---	27.30	---		909.57
	8/3/2022		---	30.20	---		906.67
MW-21	6/24/2015	30-40	---	30.96	---	NL	N/A
	5/30/2018		---	NL	---		NL
	4/7/2020		---	NL	---		NL
	8/3/2022		---	NL	---		NL
MW-21R	4/7/2020	22-32	---	28.52	---	934.95	906.43
	8/3/2022		---	28.21	---		906.74
MW-22	6/24/2015	30-40	---	33.10	---	937.61	904.51
	5/30/2018		---	31.43	---		906.18
	4/7/2020		---	26.22	---		911.39
	8/3/2022		---	29.82	---		907.79
MW-23	6/24/2015	30-40	---	35.71	---	943.11	907.40
	5/30/2018		---	DRY	---		DRY
	4/7/2020		---	36.39	---		906.72
	8/3/2022		---	39.05	---		904.06
MW-24	6/24/2015	30-40	---	33.30	---	938.76	905.46
	5/30/2018		---	31.90	---		906.86
	4/7/2020		---	26.62	---		912.14
	8/3/2022		---	29.97	---		908.79
MW-25	6/24/2015	30-40	---	31.57	---	938.88	907.31
	5/30/2018		---	26.48	---		912.40
	4/7/2020		---	21.32	---		917.56
	8/3/2022		---	25.13	---		913.75
MW-26	6/24/2015	30-40	---	32.86	---	937.04	904.18
	5/30/2018		29.42	29.52	0.10		907.61
	4/7/2020		---	24.16	---		912.88
	8/3/2022		27.40	27.75	0.35		909.59
MW-27	4/7/2020	30-40	---	29.66	---	938.17	908.51
	8/3/2022		---	32.66	---		905.51
MW-28	4/7/2020	32-42	---	33.43	---	940.86	907.43
	8/3/2022		---	36.51	---		904.35
MW-29	4/7/2020	35-45	---	36.14	---	943.12	906.98
	8/3/2022		---	38.83	---		904.29
MW-30	8/3/2022	39-49	---	DRY	---	ABANDONED	ABANDONED
MW-31	8/3/2022	30-40	---	39.42	---	935.75	896.33
MW-32	8/3/2022	30-40	---	34.55	---	937.28	902.73
DW-1	6/24/2015	60-65	---	32.67	---	937.18	904.51
	5/30/2018		---	34.19	---		902.99
	4/7/2020		---	29.29	---		907.89
	8/3/2022		---	32.28	---		904.90
DW-2	4/7/2020	60-65	---	35.85	---	942.93	907.08
	8/3/2022		---	38.63	---		904.30
DW-3	4/7/2020	60-65	---	36.15	---	942.98	906.83
	8/3/2022		---	38.99	---		903.99
DW-4	8/3/2022	58-63	---	40.42	---	935.93	895.51
DW-5	8/3/2022	59-64	---	40.38	---	943.99	903.61
DW-6	8/3/2022	60-65	---	34.58	---	937.49	902.91
DDW-1	8/3/2022	80-120	---	57.70	---	962.25	904.55
DDW-2	8/3/2022	85-90	---	58.46	---	935.41	876.95
DDW-3	8/3/2022	85-90	---	40.02	---	943.86	903.84
DDW-4	8/3/2022	80-85	---	34.23	---	937.35	903.12

TABLE 2
POTENTIOMETRIC DATA
AUGUST 2-3, 2022 SAMPLING EVENT
UST - UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
RW-1	6/24/2015	20-40	---	31.94	---	937.24	905.30
	5/30/2018		---	NL	---		NL
	4/7/2020		---	24.28	---		912.96
	8/3/2022		27.93	27.95	0.02		909.31
RW-2	6/24/2015	20-40	---	32.06	---	937.36	905.30
	5/30/2018		---	29.45	---		907.91
	4/7/2020		---	24.21	---		913.15
	8/3/2022		---	28.37	---		908.99
RW-3	6/24/2015	20-40	---	31.86	---	937.48	905.62
	5/30/2018		---	29.39	---		908.09
	4/7/2020		---	24.20	---		913.28
	8/3/2022		28.51	28.52	0.01		908.97
RW-4	6/24/2015	20-40	---	31.62	---	937.88	906.26
	5/30/2018		---	30.60	---		907.28
	4/7/2020		---	25.10	---		912.78
	8/3/2022		28.30	28.31	0.01		909.58
RW-5	6/24/2015	20-40	---	31.43	---	938.26	906.83
	5/30/2018		---	30.90	---		907.36
	4/7/2020		---	25.58	---		912.68
	8/3/2022		28.99	29.00	0.01		909.27
EP-4	8/10/2013	20-35	---	NM	---	936.91	NM
	11/6/2013		---	NM	---		NM
	3/12/2015		---	27.70	---		909.21
	6/24/2015		---	NM	---		NM
	5/30/2018		29.13	29.24	0.11		907.76
	4/7/2020		---	23.85	---		913.06
	8/3/2022		---	27.83	---		909.08
EP-12	8/10/2013	20-35	---	NM	---	937.40	NM
	11/6/2013		---	NM	---		NM
	3/12/2015		---	29.73	---		907.67
	6/24/2015		---	NM	---		NM
	5/30/2018		---	NL	---		NL
	4/7/2020		---	24.91	---		912.49
	8/3/2022		---	29.38	---		908.02
EP-16	8/10/2013	TD: 34.35	---	NM	---	937.88	NM
	11/6/2013		---	NM	---		NM
	3/12/2015		---	28.99	---		908.89
	6/24/2015		---	NM	---		NM
	5/30/2018		---	30.53	---		907.35
	4/7/2020		---	24.96	---		912.92
	8/3/2022		28.49	28.50	0.01		909.39
EP-20	8/10/2013	13-35	---	NM	---	938.07	NM
	11/6/2013		---	NM	---		NM
	3/12/2015		---	29.58	---		908.49
	6/24/2015		---	NM	---		NM
	5/30/2018		---	31.02	---		907.05
	4/7/2020		---	25.66	---		912.41
	8/3/2022		---	29.13	---		908.94

Notes:

1. Groundwater depths were measured from the top of the PVC riser pipe.
2. Site datum based on assumed spot elevation.
3. NM = Not Measured
4. TD = Total Depth
5. DESTROYED = Well has been destroyed
6. ABANDONED = Well has been Abandoned
7. OBSTRUCTION = Well Obstructed
8. DRY = Well Gauged DRY

TABLE 3
AQUIFER CHARACTERISTICS
UST-UNKNOWN 14324
SENECA, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7631
UST PERMIT# 14324

Shallow Wells

Well ID#	Hydraulic Conductivity (K) (centimeters/second)	Hydraulic Conductivity (K) (feet/day)	Hydraulic Conductivity (K) (feet/year)	Hydraulic Gradient (i) (unitless)	Effective Porosity (ne) (unitless)	Groundwater Velocity (V) (feet/day)	Groundwater Velocity (V) (feet/year)	Groundwater Velocity (V) (meters/second)
14324-MW19R	1.082E-05	3.07E-02	1.12E+01	2.74E-02	3.20E-01	2.62E-03	0.96	9.26E-09
14324-MW32	1.104E-05	3.13E-02	1.14E+01	2.74E-02	3.20E-01	2.68E-03	0.98	9.44E-09
Mathematical Mean	1.093E-05	3.10E-02	1.13E+01	2.74E-02	3.20E-01	2.65E-03	0.97	9.35E-09

Intermediate Wells

Well ID#	Hydraulic Conductivity (K) (centimeters/second)	Hydraulic Conductivity (K) (feet/day)	Hydraulic Conductivity (K) (feet/year)	Hydraulic Gradient (i) (unitless)	Effective Porosity (ne) (unitless)	Groundwater Velocity (V) (feet/day)	Groundwater Velocity (V) (feet/year)	Groundwater Velocity (V) (meters/second)
14324-DW04	7.584E-06	2.15E-02	7.85E+00	2.66E-02	3.20E-01	1.79E-03	0.65	6.30E-09
14324-DW06	2.418E-05	6.85E-02	2.50E+01	2.66E-02	3.20E-01	5.69E-03	2.08	2.01E-08
Mathematical Mean	1.588E-05	4.50E-02	1.64E+01	2.66E-02	3.20E-01	3.74E-03	1.37	1.32E-08

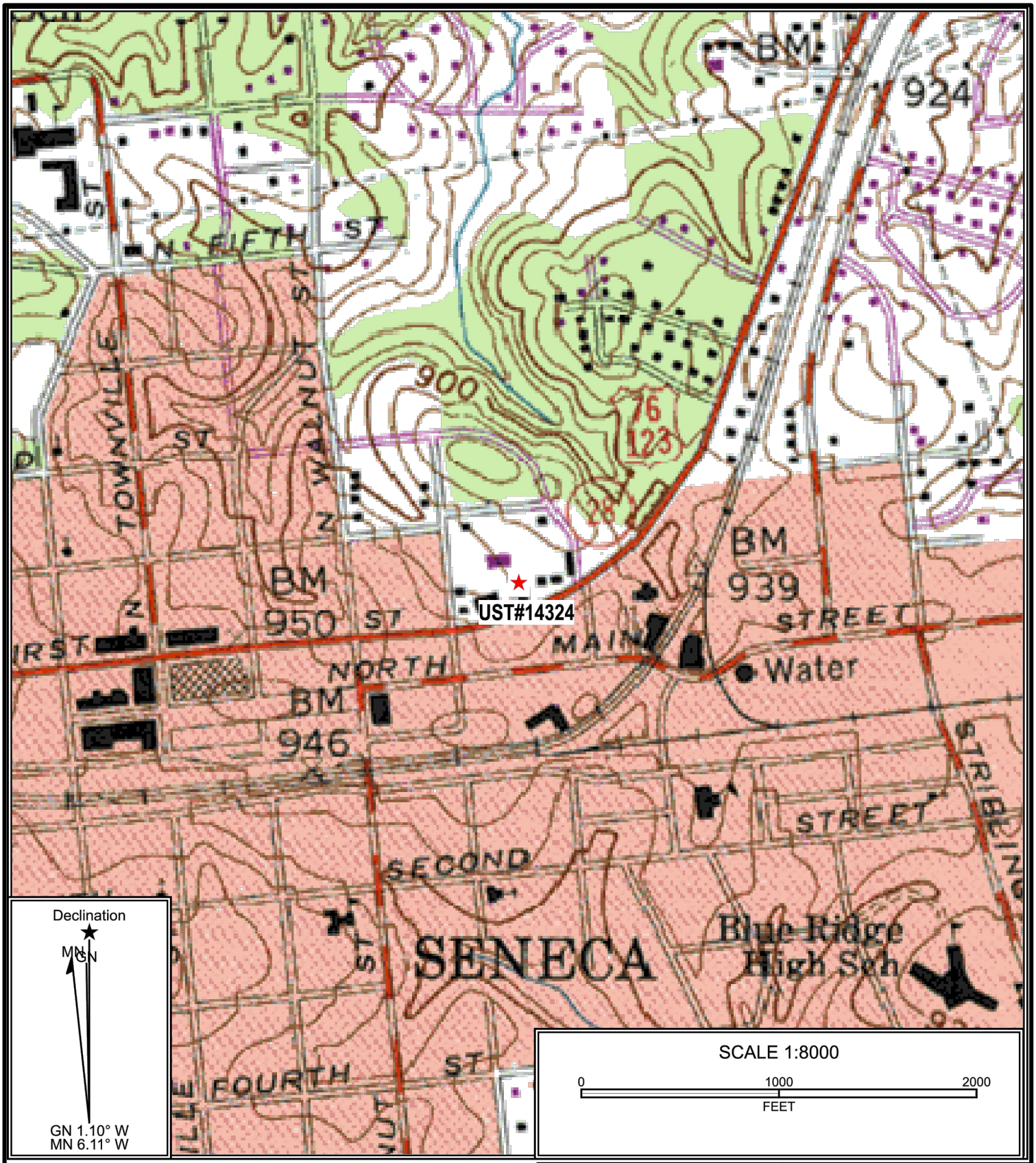
Deep Wells

Well ID#	Hydraulic Conductivity (K) (centimeters/second)	Hydraulic Conductivity (K) (feet/day)	Hydraulic Conductivity (K) (feet/year)	Hydraulic Gradient (i) (unitless)	Effective Porosity (ne) (unitless)	Groundwater Velocity (V) (feet/day)	Groundwater Velocity (V) (feet/year)	Groundwater Velocity (V) (meters/second)
14324-DDW03	1.127E-05	3.19E-02	1.17E+01	1.42E-01	3.20E-01	1.41E-02	5.16	4.98E-08
14324-DDW04	8.956E-06	2.54E-02	9.27E+00	1.42E-01	3.20E-01	1.12E-02	4.10	3.96E-08
Mathematical Mean	1.011E-05	2.87E-02	1.05E+01	1.42E-01	3.20E-01	1.27E-02	4.63	4.47E-08

Notes:

1. Groundwater velocity derived from the equation V = Ki/n.
2. Effective porosity values for the wells screened in a medium sand formation were estimated from published valiues of effective porosity for medium sand (ranged from 0.16-0.46; arithmetic mean 0.32) (McWorter and Sunada 1977).
3. Hydraulic gradients for the shallow wells were based on distance between MW-1/MW-31. Hydraulic gradients for the intermediate wells were based on distance between MW-5/DW-4. Hydraulic gradients for the deep wells were based on distance between DDW-2/DDW-3

FIGURES



Reference: Seneca, South Carolina
USGS 7.5 Min. Quad
Countour Interval – 20 Feet

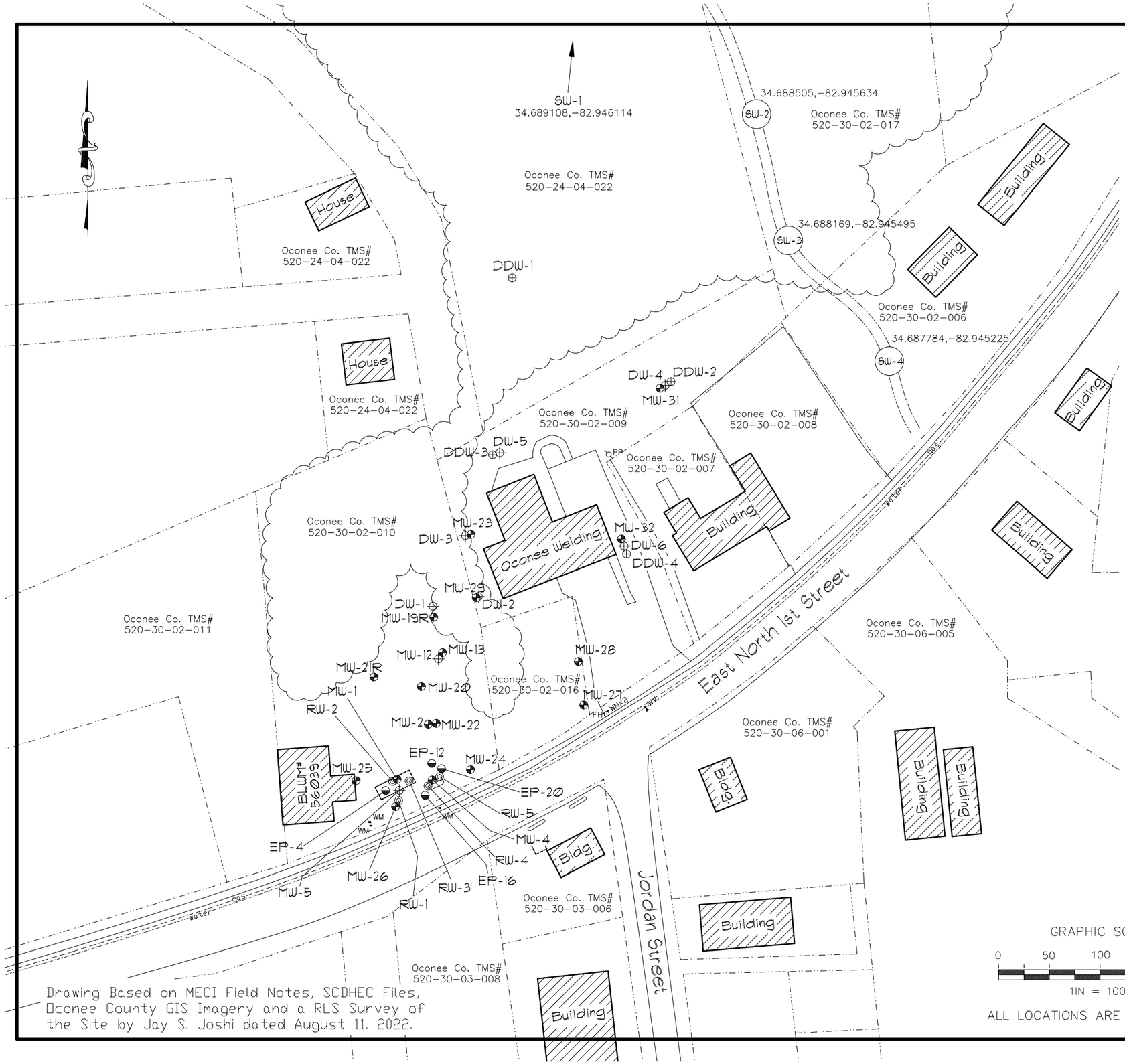
Midlands Environmental Consultants, Inc.

Site Location

UST-Unknown #14324
519 East North 1st Street, Seneca, SC
UST Permit# 14324

Figure 1

MECI 21-7631



Explanation:

- Location of "Shallow" Monitoring Well
- Location of Telescoping "Intermediate" Monitoring Well
- Location of Telescoping "Deep" Monitoring Well
- Location of 2-inch Extraction Point
- Location of 4-inch Recovery Well
- SW — Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- Property Line
- gas — Buried Gas Line
- water — Buried Water Line

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

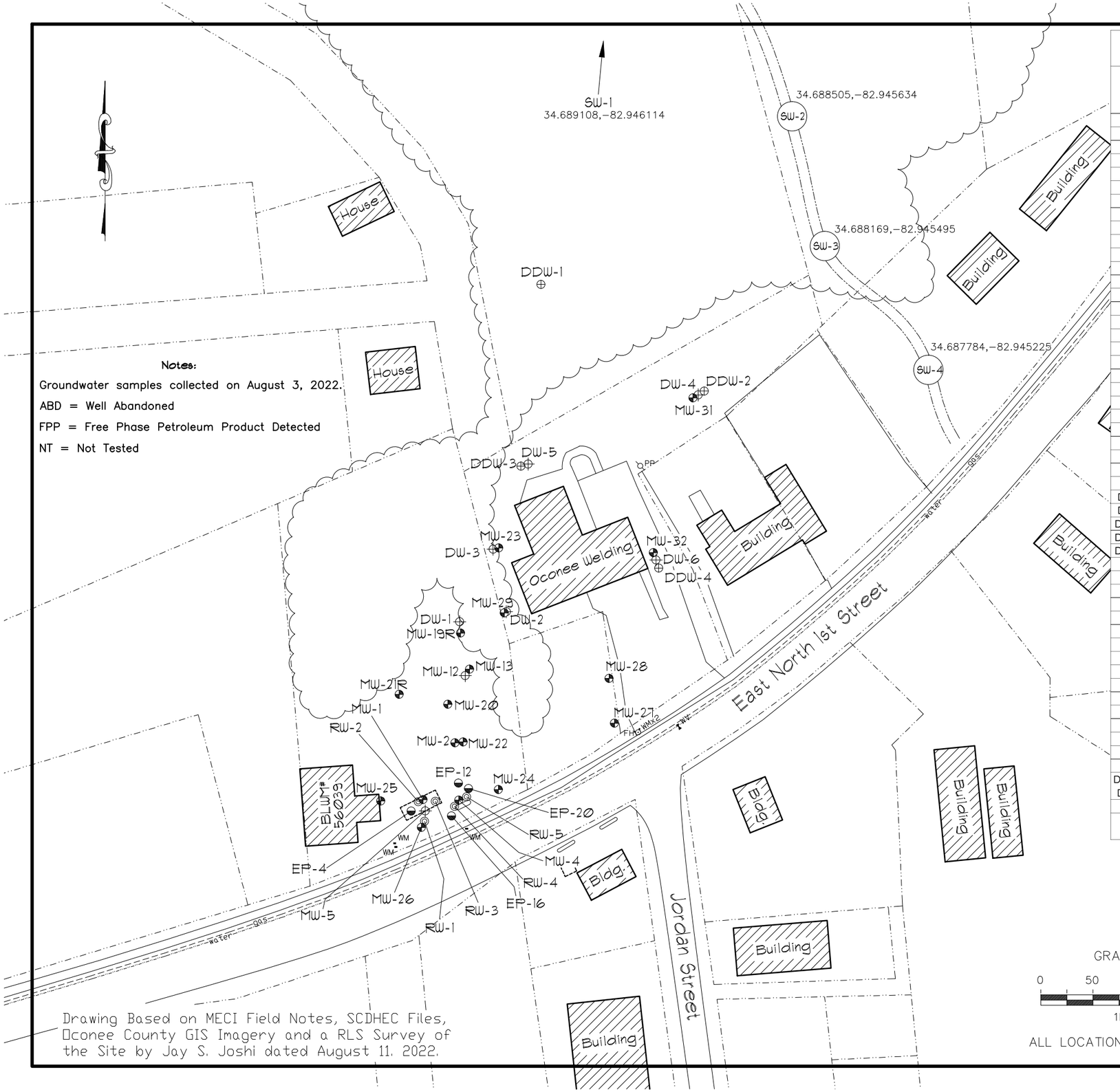
Drawing Based on MECI Field Notes, SCDHEC Files, Oconee County GIS Imagery and a RLS Survey of the Site by Jay S. Joshi dated August 11. 2022.

Site Base Map

UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631
DATE August 22, 2022
FIGURE 2



Notes:

Groundwater samples collected on August 3, 2022.

ABD = Well Abandoned

FPP = Free Phase Petroleum Product Detected

NT = Not Tested

Drawing Based on MECI Field Notes, SCDHEC Files, Oconee County GIS Imagery and a RLS Survey of the Site by Jay S. Joshi dated August 11, 2022.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

GROUNDWATER COC CONCENTRATION DATA

Well ID#	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)
	RBSL 5	*RBSL 1,000*	*RBSL 700*	*RBSL 10,000*	*RBSL 25*	*RBSL 40*	*RBSL 5*	*RBSL 0.05*
MW-1	<0.270	**0.741 J**	**78.2**	**227**	**49.2**	<0.810	<0.250	<0.00490
MW-2	**2720**	**10000**	**1590**	**9090**	**611**	<81.0	<25.0	**13.7**
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	**11100**	**22600**	**1580**	**10900**	**1030**	<162	<50.0	**69.2**
MW-5	**979**	**1610**	**315**	**1470**	**91.8**	<8.10	<2.50	**9.50**
MW-8	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	**3290**	**11400**	**982**	**5610**	**543**	<81.0	**57.2 J**	**20.1**
MW-13	**3350**	**6840**	**960**	**5070**	**400**	<40.5	**20.3 J**	**24.9**
MW-19R	<0.270	<0.250	**0.418 J**	**27.4**	**5.35**	<0.810	**0.258 J**	**0.151**
MW-20	**416**	**44.3**	**232**	**1520**	**169**	<8.10	<2.50	**1.19**
MW-21R	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00510
MW-22	**6310**	**18300**	**2060**	**10700**	**420 J**	<81.0	<25.0	**44.8**
MW-23	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00526
MW-24	**4760**	**9790**	**1350**	**8740**	**543**	<40.5	**251**	**156**
MW-25	**10.7**	**72.1**	**56.5**	**174**	<2.40	<0.810	<0.250	**0.0260**
MW-26	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
MW-27	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.0103 J**
MW-28	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.00966 J**
MW-29	**218**	**213**	**81.4**	**472**	**195 J**	<40.5	<12.5	**14.5**
MW-30	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-31	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.0515
MW-32	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	**1.54**	**0.0327**
DW-1	**2420**	**49.8**	**75.4**	**627**	**27.4**	<0.810	**19.7**	**8.42**
DW-2	**8560**	**7790**	**874**	**5040**	<480	<162	<50.0	**55.9**
DW-3	**138**	<0.250	<0.200	**194**	**11.2**	<0.810	**5.60**	**0.979**
DW-4	**1370**	**9.13**	**5.18**	**517**	**76.7**	<0.810	**31.1**	**2.36**
DW-5	<0.270	<0.250	<0.200	<0.230	**6.74**	<0.810	**0.284 J**	**0.0102 J**
DW-6	**1980**	**466**	<10.0	**460**	<120	<40.5	**234**	**9.61**
DDW-1 (83.5')	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00519
DDW-1 (92.5')	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00519
DDW-1 (102.5')	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00510
DDW-1 (112.5')	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00513
DDW-1 (119.5')	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00499
DDW-2	**2.74**	<0.250	<0.200	**0.978 J**	<2.40	<0.810	**0.501 J**	<0.00506
DDW-3	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.00626 J**
DDW-4	**33.7**	<0.250	<0.200	<0.230	<2.40	<0.810	**12.4**	**0.256**
RW-1	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-2	<2.70	**45.1**	**195**	**947**	**88.5**	<8.10	<2.50	<0.00507
RW-3	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-4	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-5	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
EP-4	**85.8 J**	**1750**	**1010**	**5380**	**365 J**	<81.0	<25.0	**0.0165 J**
EP-12	**6650**	**28300**	**9880**	**123000**	**33100**	<1620	<500	**103**
EP-16	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
EP-20	**14700**	**30700**	**1780**	**17500**	**1240 J**	<203	<62.5	**412**
SW-1	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00510
SW-2	**0.546 J**	<0.250	<0.200	<0.230	<2.40	<0.810	**0.303 J**	<0.0503
SW-3	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00500
SW-4	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.0503**
DUP-1 (MW-12)	**3180**	**12000**	**1070**	**5800**	**436 J**	<81.0	**55.7 J**	**19.2**
DUP-2 (RW-2)	<2.70	**102**	**288**	**1520**	**110**	<8.10	<2.50	**0.0298**
Field Blank	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	**0.00591 J**
Trip Blank	<0.270 <0.270	<0.250 <0.250	<0.200 <0.200	<0.230 <0.230	<2.40 <2.40	<0.810 <0.810	<0.250 <0.250	NT NT

Groundwater CoC Site Map

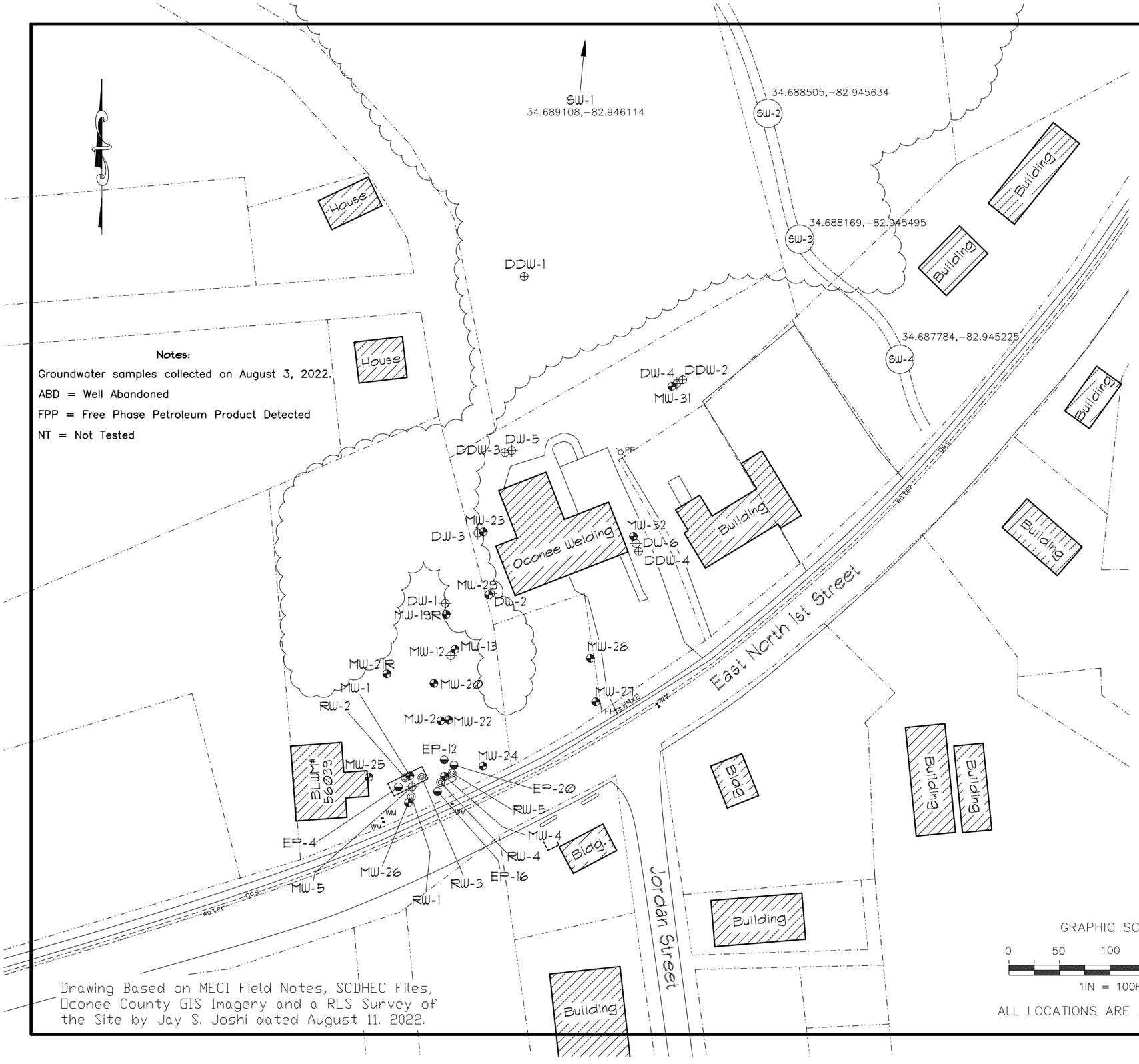
UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631

DATE August 22, 2022

FIGURE 3



Notes:

Groundwater samples collected on August 3, 2022.

ABD = Well Abandoned

FPP = Free Phase Petroleum Product Detected

NT = Not Tested

Drawing Based on MECI Field Notes, SCDHEC Files, Oconee County GIS Imagery and a RLS Survey of the Site by Jay S. Joshi dated August 11, 2022.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

GROUNDWATER COC CONCENTRATION DATA (Oxygenates)

Well ID#	TAA (µg/l) *RBSL 240*	TAME (µg/l) *RBSL 128*	ETBA (µg/l) *RBSL NE*	TBA (µg/l) *RBSL 1,400*	TBF (µg/l) *RBSL NE*	DIPE (µg/l) *RBSL 150*	Ethanol (µg/l) *RBSL 10,000*	ETBE (µg/l) *RBSL 47*
MW-1	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-2	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
MW-3	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-4	<1720	<156	<1400	<1380	<1380	<140	<10000	<144
MW-5	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
MW-8	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-12	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
MW-13	<430	<39.0	<350	<345	<345	<35.0	<2500	<36.0
MW-19R	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-20	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
MW-21R	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-22	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
MW-23	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-24	<430	<39.0	<350	<345	<345	**101 J**	<2500	<36.0
MW-25	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-26	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
MW-27	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-28	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-29	<430	<39.0	<350	<345	<345	<35.0	<2500	<36.0
MW-30	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-31	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
MW-32	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DW-1	**746**	<0.780	<7.00	<6.90	<6.90	**24.9**	<50.0	<0.720
DW-2	<1720	<156	<1400	<1380	<1380	<140	<10000	<144
DW-3	**140**	<0.780	<7.00	**13.0 J**	<6.90	**6.41 J**	<50.0	<0.720
DW-4	**777**	<0.780	<7.00	<6.90	<6.90	**29.9**	<50.0	<0.720
DW-5	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DW-6	**3050**	<39.0	<350	<345	<345	**151 J**	<2500	<36.0
DDW-1 (83.5')	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (92.5')	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (102.5')	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (112.5')	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-1 (119.5')	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-2	**9.71 J**	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-3	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DDW-4	**235**	<0.780	<7.00	**41.0 J**	<6.90	**9.29 J**	<50.0	<0.720
RW-1	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-2	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
RW-3	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-4	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
RW-5	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
EP-4	<860	<78.0	<700	<690	<690	<70.0	<5000	<72.0
EP-12	<17200	<1560	<14000	<13800	<13800	<1400	<100000	<1440
EP-16	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**	**FPP**
EP-20	<2150	<195	<1750	<1730	<1730	<175	<12500	<180
SW-1	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
SW-2	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
SW-3	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
SW-4	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (MW-12)	<860	<78.0	<700	<690	<690	**72.2 J**	<5000	<72.0
DUP-2 (RW-2)	<86.0	<7.80	<70.0	<69.0	<69.0	<7.00	<500	<7.20
Field Blank	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
Trip Blank	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

Groundwater CoC Site Map (Oxygenates)

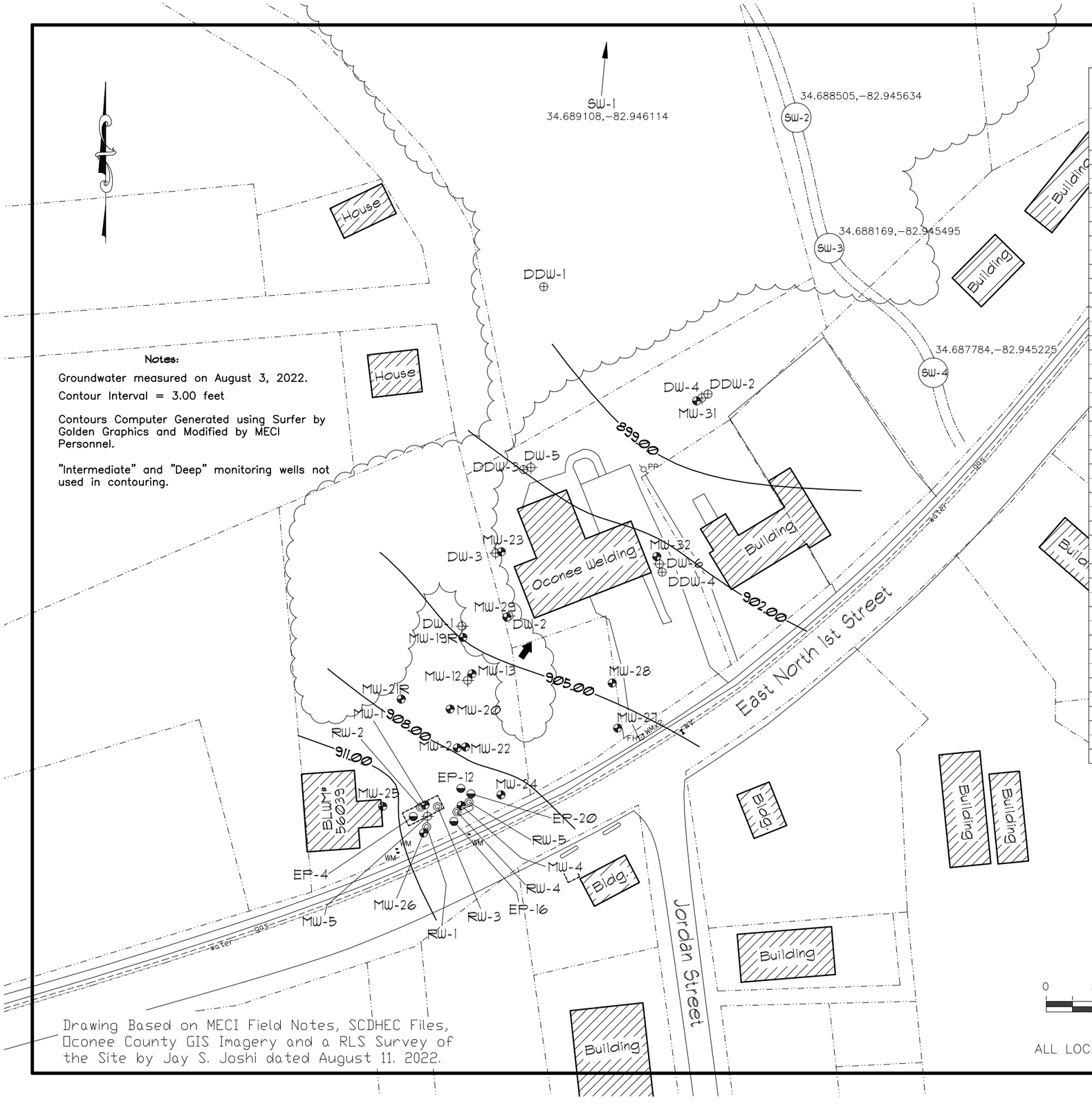
UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631

DATE August 22, 2022

FIGURE 3A



Groundwater Elevation Contour (feet)

Notes:

Groundwater measured on August 3, 2022.

Contour Interval = 3.00 feet

Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

"Intermediate" and "Deep" monitoring wells not used in contouring.

POTENTIOMETRIC DATA

Well Number	Screened Interval	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	Well-head Elevation	Groundwater Elevation
MW-1	25-40	---	27.85	---	936.88	909.03
MW-2	30-40	---	29.19	---	937.19	908.00
MW-3	30-40	---	ABANDONED	---	ABANDONED	ABANDONED
MW-4	30-40	---	28.57	---	937.64	909.07
MW-5	60-65	---	28.45	---	936.64	908.19
MW-8	N/A	---	ABANDONED	---	ABANDONED	ABANDONED
MW-12	60-65	---	32.15	---	937.69	905.54
MW-13	36-46	---	32.51	---	937.99	905.48
MW-19	35-45	---	ABANDONED	---	ABANDONED	ABANDONED
MW-19R	30-40	---	32.73	---	937.63	904.90
MW-20	30-40	---	30.20	---	936.87	906.67
MW-21	30-40	---	NL	---	NL	NL
MW-21R	22-32	---	28.21	---	934.95	906.74
MW-22	30-40	---	29.82	---	937.61	907.79
MW-23	30-40	---	39.05	---	943.11	904.06
MW-24	30-40	---	29.97	---	938.76	908.79
MW-25	30-40	---	25.13	---	938.88	913.75
MW-26	30-40	27.40	27.75	0.35	937.04	909.59
MW-27	30-40	---	32.66	---	938.17	905.51
MW-28	32-42	---	36.51	---	940.86	904.35
MW-29	35-45	---	38.83	---	943.12	904.29
MW-30	39-49	---	DRY	---	ABANDONED	ABANDONED
MW-31	30-40	---	39.42	---	935.75	896.33
MW-32	30-40	---	34.55	---	937.28	902.73
DW-1	60-65	---	32.28	---	937.18	904.90
DW-2	60-65	---	38.63	---	942.93	904.30
DW-3	60-65	---	38.99	---	942.98	903.99
DW-4	58-63	---	40.42	---	935.93	895.51
DW-5	59-64	---	40.38	---	943.99	903.61
DW-6	60-65	---	34.58	---	937.49	902.91
DDW-1	80-120	---	57.70	---	962.25	904.55
DDW-2	85-90	---	58.46	---	935.41	876.95
DDW-3	85-90	---	40.02	---	943.86	903.84
DDW-4	80-85	---	34.23	---	937.35	903.12
RW-1	20-40	27.93	27.95	0.02	937.24	909.31
RW-2	20-40	---	28.37	---	937.36	908.99
RW-3	20-40	28.51	28.52	0.01	937.48	908.97
RW-4	20-40	28.30	28.31	0.01	937.88	909.58
RW-5	20-40	28.99	29.00	0.01	938.26	909.27
EP-4	20-35	---	27.83	---	936.91	909.08
EP-12	20-35	---	29.38	---	937.40	908.02
EP-16	TD: 34.35	28.49	28.50	0.01	937.88	909.39
EP-20	13-35	---	29.13	---	938.07	908.94

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, SCDHEC Files, Oconee County GIS Imagery and a RLS Survey of the Site by Jay S. Joshi dated August 11, 2022.

Potentiometric Data Site Map
(Groundwater Contour-"Shallow" Zone)

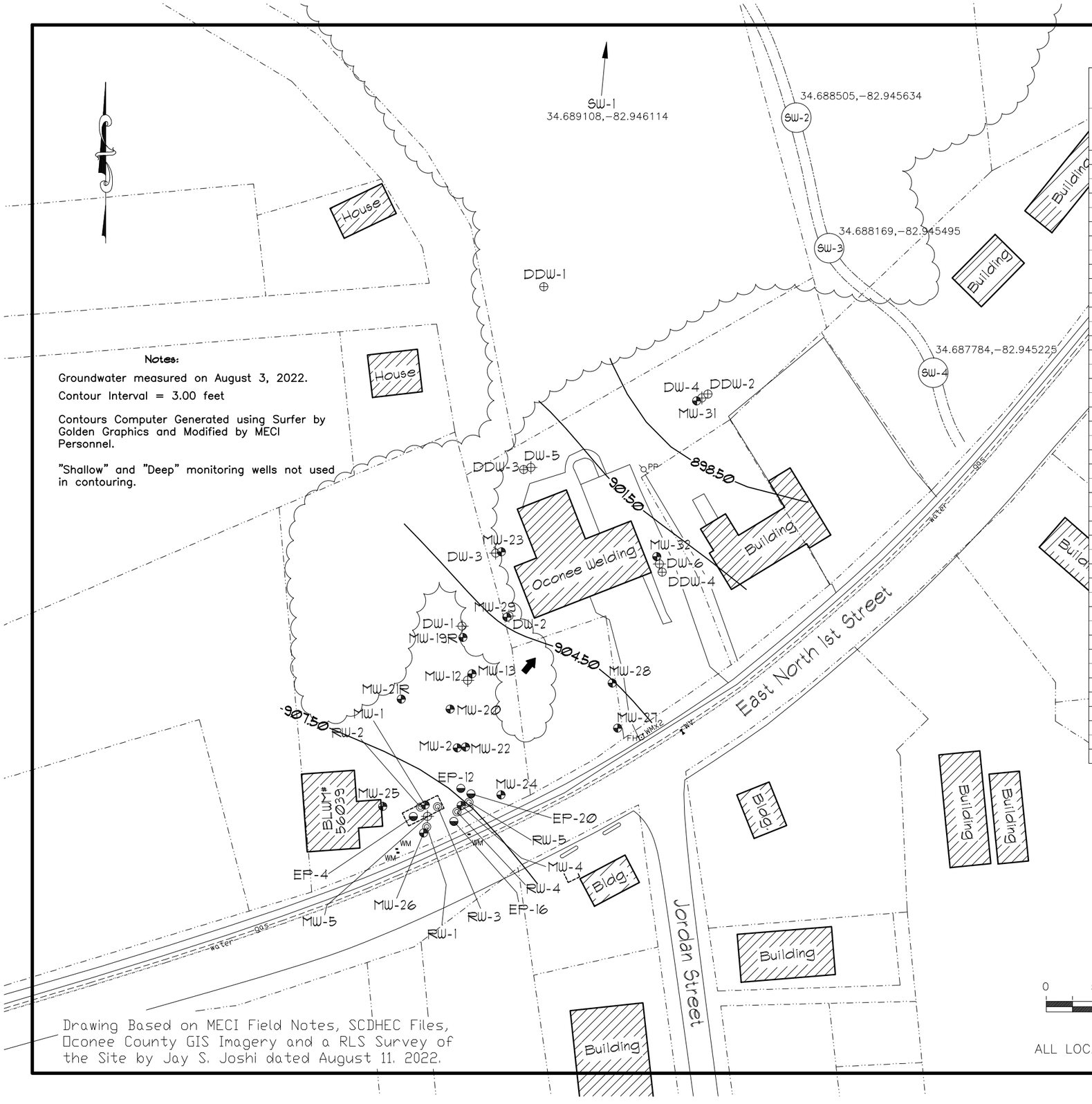
UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631

DATE August 22, 2022

FIGURE 4



Notes:

Groundwater measured on August 3, 2022.

Contour Interval = 3.00 feet

Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

"Shallow" and "Deep" monitoring wells not used in contouring.

Drawing Based on MECI Field Notes, SCDHEC Files, Oconee County GIS Imagery and a RLS Survey of the Site by Jay S. Joshi dated August 11. 2022.

——— Groundwater Elevation Contour (feet)

POTENTIOMETRIC DATA

Well Number	Screened Interval	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	Well-head Elevation	Groundwater Elevation
MW-1	25-40	---	27.85	---	936.88	909.03
MW-2	30-40	---	29.19	---	937.19	908.00
MW-3	30-40	---	ABANDONED	---	ABANDONED	ABANDONED
MW-4	30-40	---	28.57	---	937.64	909.07
MW-5	60-65	---	28.45	---	936.64	908.19
MW-8	N/A	---	ABANDONED	---	ABANDONED	ABANDONED
MW-12	60-65	---	32.15	---	937.69	905.54
MW-13	36-46	---	32.51	---	937.99	905.48
MW-19	35-45	---	ABANDONED	---	ABANDONED	ABANDONED
MW-19R	30-40	---	32.73	---	937.63	904.90
MW-20	30-40	---	30.20	---	936.87	906.67
MW-21	30-40	---	NL	---	NL	NL
MW-21R	22-32	---	28.21	---	934.95	906.74
MW-22	30-40	---	29.82	---	937.61	907.79
MW-23	30-40	---	39.05	---	943.11	904.06
MW-24	30-40	---	29.97	---	938.76	908.79
MW-25	30-40	---	25.13	---	938.88	913.75
MW-26	30-40	27.40	27.75	0.35	937.04	909.59
MW-27	30-40	---	32.66	---	938.17	905.51
MW-28	32-42	---	36.51	---	940.86	904.35
MW-29	35-45	---	38.83	---	943.12	904.29
MW-30	39-49	---	DRY	---	ABANDONED	ABANDONED
MW-31	30-40	---	39.42	---	935.75	896.33
MW-32	30-40	---	34.55	---	937.28	902.73
DW-1	60-65	---	32.28	---	937.18	904.90
DW-2	60-65	---	38.63	---	942.93	904.30
DW-3	60-65	---	38.99	---	942.98	903.99
DW-4	58-63	---	40.42	---	935.93	895.51
DW-5	59-64	---	40.38	---	943.99	903.61
DW-6	60-65	---	34.58	---	937.49	902.91
DDW-1	80-120	---	57.70	---	962.25	904.55
DDW-2	85-90	---	58.46	---	935.41	876.95
DDW-3	85-90	---	40.02	---	943.86	903.84
DDW-4	80-85	---	34.23	---	937.35	903.12
RW-1	20-40	27.93	27.95	0.02	937.24	909.31
RW-2	20-40	---	28.37	---	937.36	908.99
RW-3	20-40	28.51	28.52	0.01	937.48	908.97
RW-4	20-40	28.30	28.31	0.01	937.88	909.58
RW-5	20-40	28.99	29.00	0.01	938.26	909.27
EP-4	20-35	---	27.83	---	936.91	909.08
EP-12	20-35	---	29.38	---	937.40	908.02
EP-16	TD: 34.35	28.49	28.50	0.01	937.88	909.39
EP-20	13-35	---	29.13	---	938.07	908.94

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Potentiometric Data Site Map
(Groundwater Contour-"Intermediate" Zone)

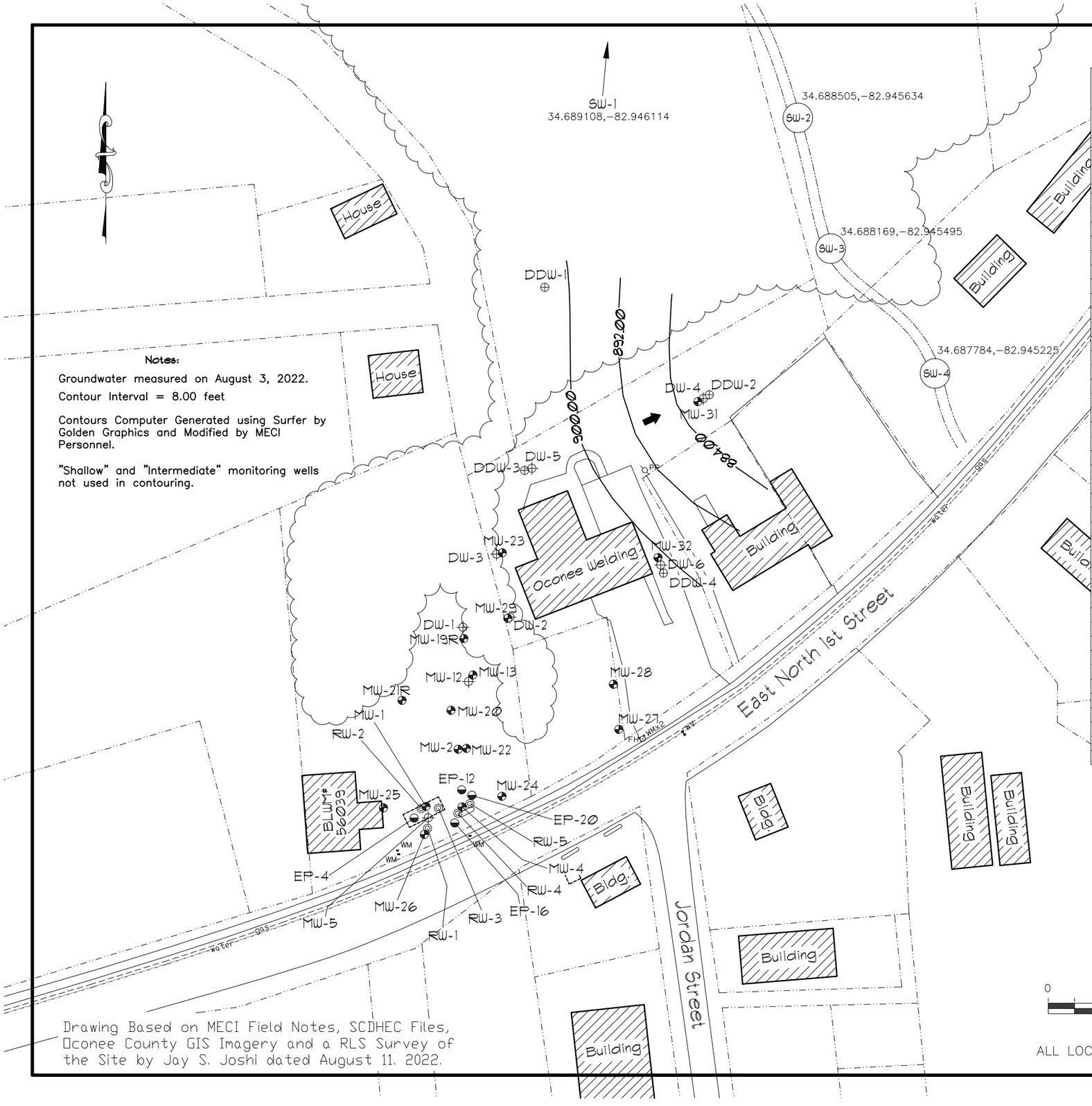
UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631

DATE August 22, 2022

FIGURE 4A



POTENTIOMETRIC DATA

Well Number	Screened Interval	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	Well-head Elevation	Groundwater Elevation
MW-1	25-40	---	27.85	---	936.88	909.03
MW-2	30-40	---	29.19	---	937.19	908.00
MW-3	30-40	---	ABANDONED	---	ABANDONED	ABANDONED
MW-4	30-40	---	28.57	---	937.64	909.07
MW-5	60-65	---	28.45	---	936.64	908.19
MW-8	N/A	---	ABANDONED	---	ABANDONED	ABANDONED
MW-12	60-65	---	32.15	---	937.69	905.54
MW-13	36-46	---	32.51	---	937.99	905.48
MW-19	35-45	---	ABANDONED	---	ABANDONED	ABANDONED
MW-19R	30-40	---	32.73	---	937.63	904.90
MW-20	30-40	---	30.20	---	936.87	906.67
MW-21	30-40	---	NL	---	NL	NL
MW-21R	22-32	---	28.21	---	934.95	906.74
MW-22	30-40	---	29.82	---	937.61	907.79
MW-23	30-40	---	39.05	---	943.11	904.06
MW-24	30-40	---	29.97	---	938.76	908.79
MW-25	30-40	---	25.13	---	938.88	913.75
MW-26	30-40	27.40	27.75	0.35	937.04	909.59
MW-27	30-40	---	32.66	---	938.17	905.51
MW-28	32-42	---	36.51	---	940.86	904.35
MW-29	35-45	---	38.83	---	943.12	904.29
MW-30	39-49	---	DRY	---	ABANDONED	ABANDONED
MW-31	30-40	---	39.42	---	935.75	896.33
MW-32	30-40	---	34.55	---	937.28	902.73
DW-1	60-65	---	32.28	---	937.18	904.90
DW-2	60-65	---	38.63	---	942.93	904.30
DW-3	60-65	---	38.99	---	942.98	903.99
DW-4	58-63	---	40.42	---	935.93	895.51
DW-5	59-64	---	40.38	---	943.99	903.61
DW-6	60-65	---	34.58	---	937.49	902.91
DDW-1	80-120	---	57.70	---	962.25	904.55
DDW-2	85-90	---	58.46	---	935.41	876.95
DDW-3	85-90	---	40.02	---	943.86	903.84
DDW-4	80-85	---	34.23	---	937.35	903.12
RW-1	20-40	27.93	27.95	0.02	937.24	909.31
RW-2	20-40	---	28.37	---	937.36	908.99
RW-3	20-40	28.51	28.52	0.01	937.48	908.97
RW-4	20-40	28.30	28.31	0.01	937.88	909.58
RW-5	20-40	28.99	29.00	0.01	938.26	909.27
EP-4	20-35	---	27.83	---	936.91	909.08
EP-12	20-35	---	29.38	---	937.40	908.02
EP-16	TD: 34.35	28.49	28.50	0.01	937.88	909.39
EP-20	13-35	---	29.13	---	938.07	908.94

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, SCDHEC Files, Oconee County GIS Imagery and a RLS Survey of the Site by Jay S. Joshi dated August 11. 2022.

Potentiometric Data Site Map
(Groundwater Contour-"Deep" Zone)

UST-Unknown 14324
519 East North 1st Street
Seneca, South Carolina
UST Permit# 14324

Midlands Environmental Consultants, Inc.

JOB NO. 21-7631
DATE August 22, 2022
FIGURE 4B

APPENDIX A:

SITE SURVEY

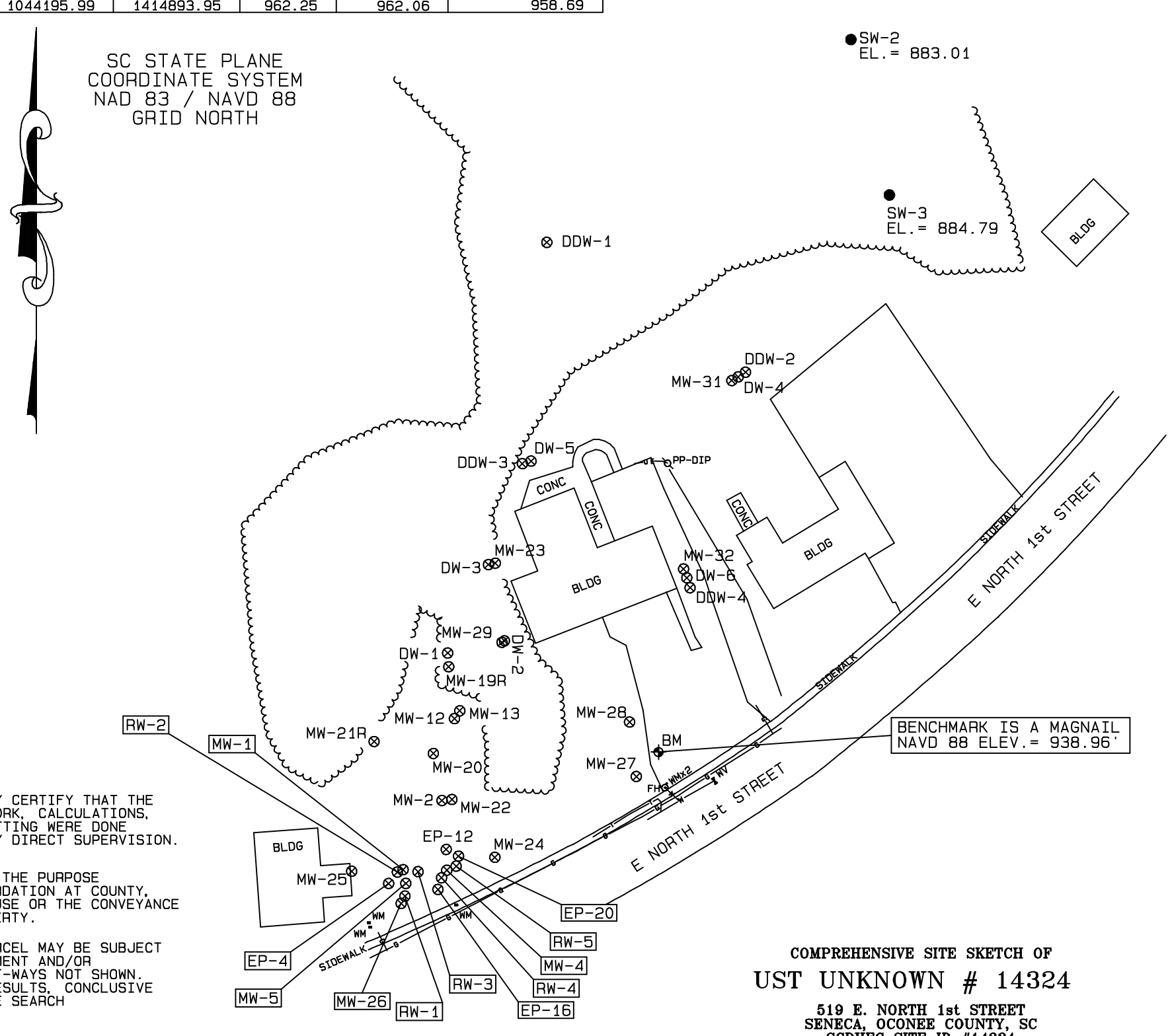
SITE ID# 14324 MONITOR WELLS (SURVEYED 08-04-22)				
WELL	SCSP NORTH	SCSP EAST	RIM ELEV.	TOC ELEV.
MW-1	1043701.50	1414780.70	936.99	936.88
MW-2	1043756.00	1414811.31	937.56	937.19
MW-4	1043701.07	1414815.10	937.98	937.64
MW-5	1043690.67	1414782.85	937.31	936.64
MW-12	1043820.55	1414821.19	938.11	937.69
MW-13	1043826.75	1414825.33	938.29	937.99
MW-19R	1043861.48	1414816.63	938.04	937.63
MW-20	1043793.08	1414804.55	937.43	936.87
MW-21R	1043802.49	1414757.82	935.26	934.95
MW-22	1043756.84	1414819.17	938.06	937.61
MW-23	1043943.14	1414853.33	943.76	943.11
MW-24	1043711.23	1414852.99	939.20	938.76
MW-25	1043700.27	1414740.21	939.20	938.88
MW-26	1043674.87	1414779.15	937.33	937.04
MW-27	1043774.96	1414964.43	938.51	938.17
MW-28	1043817.87	1414959.18	941.09	940.86
MW-29	1043880.70	1414858.63	943.42	943.12
MW-31	1044087.06	1415039.69	936.21	935.75
MW-32	1043938.53	1415001.68	937.71	937.28
EP-4	1043690.60	1414769.29	937.10	936.91
EP-12	1043717.47	1414814.67	937.64	937.40
EP-16	1043685.88	1414808.12	938.25	937.88
EP-20	1043712.16	1414824.35	938.30	938.07
RW-1	1043680.66	1414782.15	937.46	937.24
RW-2	1043699.56	1414776.16	937.54	937.36
RW-3	1043699.94	1414792.50	937.68	937.48
RW-4	1043695.11	1414810.99	938.15	937.88
RW-5	1043704.28	1414822.52	938.34	938.26
DW-1	1043872.30	1414815.85	937.99	937.18
DW-2	1043881.88	1414860.58	943.41	942.93
DW-3	1043941.97	1414847.94	943.54	942.98
DW-4	1044089.95	1415044.69	936.20	935.93
DW-5	1044023.59	1414881.52	944.32	943.99
DW-6	1043931.56	1415004.22	937.67	937.49
DDW-2	1044093.65	1415050.55	935.79	935.41
DDW-3	1044021.54	1414874.68	944.15	943.86
DDW-4	1043923.70	1415006.81	937.69	937.35

SITE ID# 14324 STICK-UP MONITOR WELLS (SURVEYED 08-04-22)					
WELL	SCSP NORTH	SCSP EAST	TOC ELEV.	HINGE ELEV.	CONC. PAD ELEV.
DDW-1	1044195.99	1414893.95	962.25	962.06	958.69

LEGEND AND ABBREVIATIONS:

- ⊗ = MW = MONITORING WELL
- ⊕ = BM = BENCHMARK
- WM = WATER METER
- WV = WATER VALVE
- FH = FIRE HYDRANT
- PP = POWER POLE
- G = GAS LINE
- T = UNDERGROUND TELEPHONE LINE
- W = WATER LINE
- = WOOD LINE
- UE = UNDERGROUND POWER LINE
- RIM = RIM OF WELL STRUCTURE
- TOC = TOP OF CASING
- SCSP = SOUTH CAROLINA STATE PLANE

SC STATE PLANE
COORDINATE SYSTEM
NAD 83 / NAVD 88
GRID NORTH



NOTE:
I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

NOTE:
NOT FOR THE PURPOSE OF RECORDATION AT COUNTY, COURTHOUSE OR THE CONVEYANCE OF PROPERTY.

THIS PARCEL MAY BE SUBJECT TO EASEMENT AND/OR RIGHT-OF-WAYS NOT SHOWN. FINAL RESULTS, CONCLUSIVE OF TITLE SEARCH

COMPREHENSIVE SITE SKETCH OF

UST UNKNOWN # 14324

519 E. NORTH 1st STREET
SENECA, OCONEE COUNTY, SC
SCDHEC SITE ID #14324
PREPARED FOR

MIDLANDS ENVIRONMENTAL CONSULTANTS, INC.

GRAPHIC SCALE 1"=100'

0 100 200 300

SOUTH CAROLINA
REGISTERED LAND SURVEYOR
No. 14811
JAY S. JOSHI

SOUTH CAROLINA
CONSTRUCTION SUPPORT SERVICES
No. C02425
CERTIFICATE OF AUTHORIZATION

Jay S. Joshi

JAY S. JOSHI PLS # 14811
P.O. BOX 90408, COLUMBIA, SC, 29290 803-776-9909

DATE: AUGUST 11, 2022 JOB #080422S

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

nds
Environmental
Consultants, Inc.

Monitoring Well Purge And Sampling Data

Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22 - 8/3/22

Sampling Case#: 2

Job Name: UST Unknown 14329

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH:	Yes	No
Conductivity:	Yes	No
Dissolved Oxygen:	Yes	No
Turbidity:	Conductivity Calibrated Every 3 Months by QA Manager	

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-1	Initial	16:17	5.61	242.3	19.2	2.51	45.32		27.27	27.65	25 - 40	12.23	1.99	10	Strong odor
	1st	16:19	5.58	258.7	19.1	2.44	69.13								
	2nd	16:21	5.47	269.4	19.0	2.37	85.42								
	3rd	16:23	5.32	276.1	19.0	2.21	71.57								
	4th	16:25	5.28	283.2	18.9	2.16	54.18								
	5th	16:28	5.16	295.5	18.8	2.05	32.65						9.96		Replaced Cap
	Sampling	12:23	5.35	262.1	19.7	2.22	28.96								
MW-2	Initial	14:01	5.88	110.3	18.5	4.23	21.62		29.33	29.19	30 - 40	10.69	1.73	9	Strong odor
	1st	14:03	5.86	115.9	18.3	4.18	49.77								
	2nd	14:05	5.83	121.7	18.2	4.13	81.99								
	3rd	14:07	5.81	128.3	18.1	4.05	67.52								
	4th	14:09	5.79	132.6	18.0	3.92	36.81								
	5th	14:11	5.76	137.9	18.0	3.86	27.59						8.69		
	Sampling	12:15	5.45	150.4	19.6	2.12	23.66								
MW-3	Initial										30 - 40				ABD
	1st	ABD													
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-4	Initial	14:47	6.46	200.3	18.6	0.91	22.96		28.57	26.57	30 - 40	11.96	1.86	9.50	Strong odor
	1st	14:49	6.32	206.9	18.5	0.95	43.28								
	2nd	14:51	6.15	215.3	18.4	0.99	65.97								
	3rd	14:53	6.06	227.9	18.3	1.05	51.13								
	4th	14:55	5.99	238.2	18.1	1.13	36.20								
	5th	14:59	5.57	246.9	18.0	1.26	25.15						9.33		
	Sampling	12:35	5.71	220.3	19.6	1.38	19.49								

(Depth of Well) - (Depth to Water = **Water Height**

Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity SN
Case #1	15H101448	17E101302	2019
Case #2	15E101481	14H103098	
Case #3	17E100512	17E10348	

2

#All wells Purged 8/2/22

All wells sampled 8/3/22

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: UST Unknown 14329

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-5	Initial	16:19	5.54	123.9	20.1	1.69	25.29		25.38	28.45	60 - 65	36.62	5.96	30	Strong odor
	1st	16:25	5.62	126.8	20.0	1.75	41.95								
	2nd	16:32	5.78	131.5	19.8	1.82	63.11								
	3rd	16:38	5.85	139.2	19.6	1.93	55.97								
	4th	16:44	5.92	145.9	19.4	2.06	46.19								
	5th	16:50	6.03	149.6	19.2	2.15	32.51								
	Sampling	12:28	5.66	129.8	19.7	1.86	21.15						29.89		
MW-8	Initial										N/A			-	ABD
	1st		ABD												
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-12	Initial	13:07	5.29	53.7	16.5	2.05	19.18		31.84	32.15	60 - 65	33.16	5.90	27.50	odor
	1st	13:13	5.31	55.9	15.4	2.28	21.58								
	2nd	13:19	5.38	58.7	15.4	2.69	56.23								
	3rd	13:25	5.45	90.3	18.3	3.15	45.94								
	4th	13:31	5.51	92.6	18.2	3.38	36.32								
	5th	13:39	5.57	94.5	18.1	3.48	22.97						27.02		Dup-1
	Sampling	12:05	5.06	53.6	18.9	2.11	19.78								
MW-13	Initial	12:45	5.42	64.5	19.3	2.58	17.83		32.58	32.51	36 - 46	13.42	2.18	11	odor
	1st	12:48	5.41	66.7	19.1	2.94	29.35								
	2nd	12:51	5.40	69.3	19.1	3.08	53.95								
	3rd	12:54	5.36	72.6	19.0	3.10	45.36								
	4th	12:57	5.31	75.1	18.8	3.15	30.52								
	5th	13:00	5.27	78.2	18.6	3.18	21.68						10.93		
	Sampling	12:00	5.99	79.5	19.1	2.59	27.98								

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .**163 for 2" wells**, or * x .**66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: UST Unknown 19329

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-19R	Initial	12:28	4.72	32.3	18.7	2.54	19.31		32.69	32.73	30 - 40	7.31	1.19	6	no odor
	1st	12:30	4.70	33.9	18.6	2.57	35.72								
	2nd	12:32	4.68	32.0	18.5	3.62	69.81								
	3rd	12:34	4.63	31.7	18.3	4.91	53.14								
	4th	12:36	4.59	29.5	17.9	4.76	31.99								
	5th	12:38	4.55	28.1	17.6	5.19	23.66						5.95		
	Sampling	11:47	5.62	31.6	18.7	5.93	28.97								
MW-20	Initial	12:48	5.19	66.1	18.5	2.11	19.78		30.50	30.90	30 - 40	9.50	1.54	8	slight odor
	1st	12:50	5.23	69.8	18.4	2.03	35.28								
	2nd	12:52	5.27	69.3	18.3	1.86	61.66								
	3rd	12:54	5.38	71.5	18.2	1.72	41.25								
	4th	12:56	5.46	73.2	18.1	1.59	35.98								
	5th	12:58	5.54	74.9	18.1	1.44	25.18						7.74		
	Sampling	12:05	5.94	76.4	19.5	2.36	35.22								
MW-21R	Initial	13:05	5.40	32.9	19.3	4.93	21.65		28.11	28.21	22 - 32	3.89	0.63	Prd @ 1g	no odor
	1st	13:06	4.80	30.9	18.7	2.78	65.93								
	2nd														
	3rd														
	4th														
	5th												3.17		
	Sampling	12:03	5.39	35.4	18.7	2.66	45.91								
MW-22	Initial	13:44	5.41	189.2	18.5	4.18	26.52		29.52	29.82	30 - 40	10.48	1.70	9	odor
	1st	13:46	5.56	191.6	18.4	4.19	45.53								
	2nd	13:48	5.73	193.5	18.3	4.21	61.21								
	3rd	13:50	5.85	197.7	18.3	4.25	57.95								
	4th	13:52	5.99	199.2	18.2	4.26	36.11								
	5th	13:54	6.06	200.8	18.2	4.30	29.53						8.54		
	Sampling	12:10	6.16	193.5	20.1	2.14	26.53								

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: UST Unknown 14324

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-23	Initial	11:32	5.92	52.9	19.8	4.56	16.92		35.98	39.05	30 - 40	1.02	0.16	Dry @ 0.25g	no odor
	1st	11:33	5.94	37.3	19.5	6.45	26.78								
	2nd														
	3rd														
	4th														
	5th												0.83		
	Sampling	11:25	6.92	39.0	19.7	4.68	24.39								
MW-24	Initial	16:00	5.63	167.4	21.9	1.55	23.96		29.58	29.92	30 - 40	10.12	1.64	8.50	Strong odor
	1st	16:02	5.51	176.3	21.3	1.39	51.91								
	2nd	16:04	5.42	182.9	21.2	1.46	73.28								
	3rd	16:06	5.36	180.4	21.2	1.53	64.16								
	4th	16:08	5.22	191.2	21.0	1.55	42.31								
	5th	16:10	5.19	193.6	20.9	1.62	26.99						8.24		
	Sampling	12:20	5.46	184.7	21.3	2.34	20.31								
MW-25	Initial	13:13	6.51	84.0	19.4	1.31	25.62		25.01	25.13	30 - 40	14.99	2.44	12.50	51.94 odor
	1st	13:16	6.44	85.9	19.2	1.33	41.25								
	2nd	13:19	6.23	87.3	19.1	1.38	58.66								
	3rd	13:22	6.10	89.9	19.1	1.41	35.98								
	4th	13:25	5.97	91.2	19.0	1.49	27.62								
	5th	13:28	5.81	93.9	19.0	1.56	19.71						12.21		
	Sampling	12:13	5.85	89.2	18.8	2.23	23.54								
MW-26	Initial							22.40	22.75		30 - 40				FPP 0.35
	1st														
	2nd		FPP												
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: UST unknown 14324

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-27	Initial	12:07	5.49	42.1	20.7	4.60	28.66		32.68	32.66	30 – 40	7.32	1.19	Dry @ 1.50	no odor
	1st	12:09	5.21	49.7	20.3	4.28	46.99								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:35	6.86	41.1	21.6	5.81	23.94						5.96		
MW-28	Initial	11:58	5.91	109.4	21.5	6.60	18.95		35.51	36.51	32 – 42	6.49	1.05	Dry @ 1.50	no odor
	1st	12:00	5.73	106.8	21.3	5.87	23.64								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:40	5.34	99.2	20.6	6.44	23.82						5.28		
MW-29	Initial	11:40	5.39	45.2	19.0	1.16	31.65		38.28	38.83	35 – 45	6.72	1.01	5.50	odor
	1st	11:42	4.97	37.5	18.7	1.12	57.91								
	2nd	11:44	4.51	34.1	18.5	1.08	73.11								
	3rd	11:46	4.62	30.7	18.3	1.07	65.41								
	4th	11:48	4.85	28.5	18.1	1.05	47.65								
	5th	11:50	5.03	25.9	18.0	1.02	26.22								
	Sampling	11:42	5.29	29.8	18.3	2.76	23.99						5.06		
MW-30	Initial														ABD
	1st														
	2nd		ABD												
	3rd														
	4th														
	5th														
	Sampling														

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One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

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Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: UST Unknown 14324

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-31	Initial	14:56	10.72	59.9	19.7	4.82	21.35		39.27	39.42	30 – 40	0.73	0.11	Drt @ 0.25	no odor
	1st	14:57	10.53	61.2	19.5	4.99	36.91								
	2nd	14:58	10:27	85.3	19.4	5.03	61.22						0.59		
	3rd														
	4th														
	5th														
	Sampling	10:42	10.19	75.6	19.6	4.89	28.35								
MW-32	Initial	15:19	7.06	67.0	20.6	5.43	21.91		35.58	34.55	30 – 40	4.42	0.72	Drt @ 1	no odor
	1st	15:21	6.87	51.2	20.3	5.63	05.66								
	2nd												3.60		
	3rd														
	4th														
	5th														
	Sampling	11:31	6.93	57.6	20.5	5.51	32.05								
DW-1	Initial	12:29	5.27	45.1	18.8	1.26	23.61		32.25	32.28	60 – 65	32.75	5.33	Drt @ 11	Slight odor
	1st	12:35	5.16	49.3	18.7	1.25	47.55								
	2nd	12:41	5.09	54.0	18.6	1.23	53.92						26.69		
	3rd														
	4th														
	5th														
	Sampling	11:49	5.10	40.8	18.1	3.22	24.47								
DW-2	Initial	11:57	5.11	47.0	18.1	2.18	21.62		4.54	34.63	60 – 65	26.46	4.31	22	odor
	1st	12:02	5.16	45.8	18.0	2.02	45.95								
	2nd	12:07	5.09	43.4	17.9	1.82	61.68						21.56		
	3rd	12:12	5.07	41.7	17.7	1.75	59.25								
	4th	12:17	5.03	39.2	17.6	1.63	37.51								
	5th	12:22	5.00	36.0	17.5	1.49	25.61								
	Sampling	11:37	5.98	35.0	18.8	2.97	34.98								

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 8" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: USTunknown 14329

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
DW-B	Initial	11:00	7.34	44.8	19.7	1.27	19.61								
	1st	11:05	7.28	43.2	17.5	1.24	35.24								
	2nd	11:10	7.13	41.7	17.3	1.21	68.91		38.43	38.99	60 – 65	26.17	4.26	21.50	no odor
	3rd	11:15	7.02	39.5	19.1	1.16	54.26								
	4th	11:20	6.85	36.8	16.9	1.15	38.91								
	5th	11:25	6.61	34.9	16.8	1.07	22.66						21.32		
	Sampling	11:24	5.06	36.0	19.1	2.30	21.81								
DW-4	Initial	15:37	5.65	91.4	21.3	3.05	18.96								
	1st	15:41	5.60	86.2	21.2	3.01	31.45								
	2nd	15:44	5.53	81.3	21.0	2.96	68.92		40.33	40.42	58 – 63	22.67	3.69	18.50	slight odor
	3rd	15:47	5.48	75.9	21.0	2.85	54.55								
	4th	15:50	5.41	70.9	20.9	2.73	47.92								
	5th	15:53	5.36	64.3	20.7	2.69	26.31						18.97		
	Sampling	11:55	8.19	80.6	21.6	2.91	24.16								
DW-5	Initial	11:09	5.82	91.9	19.1	6.07	24.59								
	1st	11:13	5.80	89.5	19.0	5.93	31.65								
	2nd	11:17	5.76	87.6	18.8	5.89	66.39		40.37	40.38	59 – 64	23.63	3.85	19.50	no odor
	3rd	11:21	5.72	85.4	18.6	5.78	47.25								
	4th	11:25	5.65	76.9	18.4	5.62	28.91						19.25		
	5th	11:26	5.61	72.4	18.2	5.55	22.36								
	Sampling	11:17	8.63	83.5	18.8	5.88	20.91								
DW-6	Initial	15:05	6.92	133.6	23.2	3.69	15.35								
	1st	15:10	6.28	128.5	23.0	3.61	39.66								
	2nd	15:15	6.06	121.4	22.8	3.58	51.48		34.66	34.58	60 – 65	30.32	4.94	25	slight odor
	3rd	15:20	5.98	116.7	22.7	3.46	47.53								
	4th	15:25	5.86	105.9	22.5	3.32	32.19						24.71		
	5th	15:30	5.77	101.3	22.3	3.29	28.37								
	Sampling	11:30	8.98	125.6	22.9	3.49	25.26								

ell) - (Depth to Water = **Water Height**

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= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: USTunknown 19329

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	~~pH(i)~~ F7	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
DDW-1 A	Initial	9:52	83.5'		Hydrasleeve				61.20		50 – 120	62.3		No odors	Hydrasleeve Set 8/1 Sampled 8/2 Startup 3.50
DDW-1 B	1st	9:57	92.5'						-3.50						
DDW-1 C	2nd	10:04	102.5'												
DDW-1 D	3rd	10:10	112.5'						57.70						
DDW-1 E	4th	10:15	119.5'												
	5th														
	Sampling														
DDW-2	Initial	14:47	9.19	429.5	20.0	2.76	15.72		54.39	54.46	85 – 90	31.61	5.15	Dry @ 5.50	no odor
	1st	14:53	9.31	457.2	19.6	2.41	37.95						25.76		
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:40	9.26	435.8	19.8	2.63	20.56								
DDW-3	Initial	10:46	8.51	164.9	19.5	5.42	25.23		40.02	40.02	85 – 90	50.98	8.30	Dry @ 8.50	no odor
	1st	10:56	7.28	159.0	18.0	4.56	31.69						41.54		
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:19	8.72	236.1	15.9	6.53	22.98								
DDW-4	Initial	15:03	6.10	260.1	21.5	4.38	21.42		34.29	34.23	80 – 85	50.76	8.27	Dry @ 8.50	no odor
	1st	15:12	6.96	295.1	20.9	4.06	56.81						41.36		
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:26	6.63	274.2	21.6	4.17	27.93								

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22 & 8/3/22

Sampling Case#: 2

Job Name: WSTurkman 14324

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH:	Yes	No
Conductivity:	Yes	No
Dissolved Oxygen:	Yes	No
Turbidity:	Conductivity Calibrated Every 3 Months by QA Manager	

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Rw-1	Initial		FPP					22.93	22.95		20 – 40				FPP
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														4" well
Rw-2	Initial	14:09	5.38	269.8	19.9	0.99	18.61		26.18	26.37	20 – 40	11.82	7.71	39	Strong odor dup 2
	1st	14:17	5.48	249.3	19.8	1.37	35.21								
	2nd	14:25	5.62	227.7	19.7	1.69	65.99								
	3rd	14:33	5.73	203.5	19.6	1.93	96.53								
	4th	14:41	5.95	185.7	19.5	2.27	31.16								
	5th	14:49	6.02	162.4	19.3	2.58	22.66						38.59		
	Sampling	12:18	5.87	279.3	19.6	2.66	19.33								4" Well
Rw-3	Initial		FPP					28.51	28.52		20 – 40				FPP
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
Rw-4	Initial		FPP					28.30	28.33		20 – 40				FPP
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x **5 = Gallons Purged (calculated)

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4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22 - 8/3/22

Sampling Case#: 2

Job Name: UST unknown 14324

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH:	Yes	No
Conductivity:	Yes	No
Dissolved Oxygen:	Yes	No
Turbidity:	Conductivity Calibrated Every 3 Months by QA Manager	

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Rw-5	Initial		FPP					26.99	29.00		20 - 40				FPP
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														4" well
EP-4	Initial	13:52	5.26	75.9	19.7	0.98	23.59				20 - 35	7.38	1.19	6	odor
	1st	13:54	5.28	86.5	19.6	1.05	47.91								
	2nd	13:56	5.35	93.2	19.5	1.16	73.52		22.69	22.87					
	3rd	13:58	5.42	109.6	19.3	1.23	56.55								
	4th	14:00	5.40	119.3	19.2	1.31	35.65								
	5th	14:02	5.39	128.4	19.1	1.39	28.61						5.95		
	Sampling	12:30	5.29	110.3	19.4	1.26	27.94								
EP-12	Initial	14:18	5.46	95.6	18.9	2.06	26.19				20 - 35	6.49	1.05	5.50	strong odor
	1st	14:20	5.49	92.4	18.8	2.23	43.91								
	2nd	14:22	5.53	90.6	18.7	2.49	68.52		28.61	29.28					
	3rd	14:24	5.57	87.8	18.6	2.63	54.36								
	4th	14:26	5.61	85.3	18.5	2.81	46.75								
	5th	14:28	5.65	83.1	18.4	2.96	31.25						5.28		
	Sampling	12:25	6.11	120.3	19.6	2.44	27.39								
EP-16	Initial		FPP 0.01					28.49	28.50		TD: 34.35				FPP 0.01
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

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1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: TB, HS, JC, SS

Sampling Date(s): 8/2/22

Sampling Case#: 2

Job Name: UST Unknown 14324

Job Number: 21-7631

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
EP-20	Initial	14:35	5.46	55.7	19.8	2.60	28.31		29.11	29.13	13 - 35	5.89	0.96	5	Strong odor
	1st	14:36	5.41	52.9	19.7	2.27	49.66								
	2nd	14:37	5.39	50.6	19.6	2.05	77.12								
	3rd	14:38	5.35	49.8	19.4	1.68	65.31								
	4th	14:39	5.32	47.3	19.3	1.39	46.25								
	5th	14:40	5.30	44.4	19.2	1.08	35.42						4.80		
	Sampling	12:35	5.76	77.9	19.7	2.24	30.66								
Dup-1	Initial														
	1st	MW-12		12:05	odor										
Dup-2	2nd														
	3rd	RW-2	Strong odor				12:18								
	4th														
	5th														
	Sampling														
FB	Initial														
	1st	12:40													
TB-1	2nd														
	3rd	8:00			TB-2 8:00										
GAC	4th														
	5th														
	Sampling	12:45													
SW-1	Initial														
	1st	11:00	Sampled from Stream						34.688108, -82.946114						
SW-2	2nd	10:50	Sampled from Stream						34.688505, -82.945634						
SW-3	3rd	10:40	Sampled from Stream						34.688169, -82.945495						
SW-4	4th														
	5th														
	Sampling	11:10	Sampled from Stream						34.687784, -82.945235						

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

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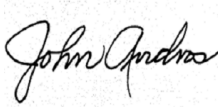
ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-219295-1
Client Project/Site: UST Unknown

For:
Midlands Environmental Consultants Inc
231 Dooley Road
Lexington, South Carolina 29073

Attn: Kyle Pudney



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8/18/2022 12:10:21 PM

John Andros, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-219295-1	MW-1	Ground Water	08/03/22 12:23	08/04/22 16:35
680-219295-2	MW-2	Ground Water	08/03/22 12:15	08/04/22 16:35
680-219295-3	MW-4	Ground Water	08/03/22 12:35	08/04/22 16:35
680-219295-4	MW-5	Ground Water	08/03/22 12:28	08/04/22 16:35
680-219295-5	MW-12	Ground Water	08/03/22 12:05	08/04/22 16:35
680-219295-6	MW-13	Ground Water	08/03/22 12:00	08/04/22 16:35
680-219295-7	MW-19R	Ground Water	08/03/22 11:47	08/04/22 16:35
680-219295-8	MW-20	Ground Water	08/03/22 12:08	08/04/22 16:35
680-219295-9	MW-21R	Ground Water	08/03/22 12:03	08/04/22 16:35
680-219295-10	MW-22	Ground Water	08/03/22 12:10	08/04/22 16:35
680-219295-11	MW-23	Ground Water	08/03/22 11:25	08/04/22 16:35
680-219295-12	MW-24	Ground Water	08/03/22 12:20	08/04/22 16:35
680-219295-13	MW-25	Ground Water	08/03/22 12:13	08/04/22 16:35
680-219295-14	MW-27	Ground Water	08/03/22 11:35	08/04/22 16:35
680-219295-15	MW-28	Ground Water	08/03/22 11:40	08/04/22 16:35
680-219295-16	MW-29	Ground Water	08/03/22 11:42	08/04/22 16:35
680-219295-17	MW-31	Ground Water	08/03/22 10:42	08/04/22 16:35
680-219295-18	MW-32	Ground Water	08/03/22 11:31	08/04/22 16:35
680-219295-19	DW-1	Ground Water	08/03/22 11:49	08/04/22 16:35
680-219295-20	DW-2	Ground Water	08/03/22 11:37	08/04/22 16:35
680-219295-21	DW-3	Ground Water	08/03/22 11:24	08/04/22 16:35
680-219295-22	DW-4	Ground Water	08/03/22 11:55	08/04/22 16:35
680-219295-23	DW-5	Ground Water	08/03/22 11:17	08/04/22 16:35
680-219295-24	DW-6	Ground Water	08/03/22 11:30	08/04/22 16:35
680-219295-25	DDW-1A (83.5')	Ground Water	08/03/22 09:52	08/04/22 16:35
680-219295-26	DDW-1B (92.5')	Ground Water	08/03/22 09:57	08/04/22 16:35
680-219295-27	DDW-1C (102.5')	Ground Water	08/03/22 10:04	08/04/22 16:35
680-219295-28	DDW-1D (112.5')	Ground Water	08/03/22 10:10	08/04/22 16:35
680-219295-29	DDW-1E (119.5')	Ground Water	08/03/22 10:15	08/04/22 16:35
680-219295-30	DDW-2	Ground Water	08/03/22 10:40	08/04/22 16:35
680-219295-31	DDW-3	Ground Water	08/03/22 11:19	08/04/22 16:35
680-219295-32	DDW-4	Ground Water	08/03/22 11:26	08/04/22 16:35
680-219295-33	RW-2	Ground Water	08/03/22 12:18	08/04/22 16:35
680-219295-34	EP-4	Ground Water	08/03/22 12:30	08/04/22 16:35
680-219295-35	EP-12	Ground Water	08/03/22 12:25	08/04/22 16:35
680-219295-36	EP-20	Ground Water	08/03/22 12:35	08/04/22 16:35
680-219295-37	DUP-1	Ground Water	08/03/22 00:00	08/04/22 16:35
680-219295-38	DUP-2	Ground Water	08/03/22 00:00	08/04/22 16:35
680-219295-39	FB	Water	08/03/22 12:40	08/04/22 16:35
680-219295-40	GAC	Ground Water	08/03/22 12:45	08/04/22 16:35
680-219295-41	SW-1	Surface Water	08/03/22 11:00	08/04/22 16:35
680-219295-42	SW-2	Surface Water	08/03/22 10:50	08/04/22 16:35
680-219295-43	SW-3	Surface Water	08/03/22 10:40	08/04/22 16:35
680-219295-44	SW-4	Surface Water	08/03/22 11:10	08/04/22 16:35
680-219295-45	TB-1	Water	08/03/22 08:00	08/04/22 16:35
680-219295-46	TB-2	Water	08/03/22 08:00	08/04/22 16:35

Job ID: 680-219295-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-219295-1

Receipt
The samples were received on 8/4/2022 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 0.8°C

GC/MS VOA
Method 8260D: Sample is overly diluted, there is insufficient volume for reanalysis. MW-29 (680-219295-16)

Method 8260D: There appears to be a sampling issue with the following sample. The screener data suggested a 50X dilution however when the sample was first run it was over-dilute at 50X. The sample was rerun at a 5X dilution and was over calibration for several analytes. A new 50X dilution was prepared from the vial with the least amount of headspace and was once again over dilute. At this point the lab pulled the vials to make sure they were labeled correctly. All vials associated with this sample are labeled "MW-29" however one of the vials has a very different odor. Both sets of data have been reported because the lab is unsure of which sample is correct. MW-29 (680-219295-16)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: Samples were transfered to another vial because of sedimentation in original sample: MW-4 (680-219295-3), MW-19R (680-219295-7), MW-21R (680-219295-9), MW-22 (680-219295-10), MW-23 (680-219295-11), MW-24 (680-219295-12), MW-28 (680-219295-15), MW-31 (680-219295-17), MW-32 (680-219295-18), (680-219295-F-9 MS), (680-219295-D-9 MSD) and (680-219295-F-18 MS). Also EP-12 (680-219295-35) and EP-20 (680-219295-36)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-1 — Lab Sample ID: 680-219295-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	78.2		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	0.741	J	1.00	0.250	ug/L	1		8260D	Total/NA
Xylenes, Total	227		1.00	0.230	ug/L	1		8260D	Total/NA
Naphthalene	49.2		5.00	2.40	ug/L	1		8260D	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 680-219295-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2720		100	27.0	ug/L	100		8260D	Total/NA
Ethylbenzene	1590		100	20.0	ug/L	100		8260D	Total/NA
Toluene	10000		100	25.0	ug/L	100		8260D	Total/NA
Xylenes, Total	9090		100	23.0	ug/L	100		8260D	Total/NA
Naphthalene	611		500	240	ug/L	100		8260D	Total/NA
Ethylene Dibromide (EDB)	13.7		3.74	1.04	ug/L	200		8011	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 680-219295-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11100		200	54.0	ug/L	200		8260D	Total/NA
Ethylbenzene	1580		200	40.0	ug/L	200		8260D	Total/NA
Toluene	22600		200	50.0	ug/L	200		8260D	Total/NA
Xylenes, Total	10900		200	46.0	ug/L	200		8260D	Total/NA
Naphthalene	1030		1000	480	ug/L	200		8260D	Total/NA
Ethylene Dibromide (EDB)	69.2		19.3	5.37	ug/L	1000		8011	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 680-219295-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	979		10.0	2.70	ug/L	10		8260D	Total/NA
Ethylbenzene	315		10.0	2.00	ug/L	10		8260D	Total/NA
Toluene	1610		10.0	2.50	ug/L	10		8260D	Total/NA
Xylenes, Total	1470		10.0	2.30	ug/L	10		8260D	Total/NA
Naphthalene	91.8		50.0	24.0	ug/L	10		8260D	Total/NA
Ethylene Dibromide (EDB)	9.50		1.77	0.492	ug/L	100		8011	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 680-219295-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3290		100	27.0	ug/L	100		8260D	Total/NA
Ethylbenzene	982		100	20.0	ug/L	100		8260D	Total/NA
Toluene	11400		100	25.0	ug/L	100		8260D	Total/NA
Xylenes, Total	5610		100	23.0	ug/L	100		8260D	Total/NA
1,2-Dichloroethane	57.2	J	100	25.0	ug/L	100		8260D	Total/NA
Naphthalene	543		500	240	ug/L	100		8260D	Total/NA
Ethylene Dibromide (EDB)	20.1		7.18	1.99	ug/L	400		8011	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 680-219295-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3350		50.0	13.5	ug/L	50		8260D	Total/NA
Ethylbenzene	960		50.0	10.0	ug/L	50		8260D	Total/NA
Toluene	6840		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total	5070		50.0	11.5	ug/L	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: MW-13 (Continued)

Lab Sample ID: 680-219295-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	20.3	J	50.0	12.5	ug/L	50		8260D	Total/NA
Naphthalene	400		250	120	ug/L	50		8260D	Total/NA
Ethylene Dibromide (EDB)	24.9		7.22	2.01	ug/L	400		8011	Total/NA

Client Sample ID: MW-19R

Lab Sample ID: 680-219295-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.418	J	1.00	0.200	ug/L	1		8260D	Total/NA
Xylenes, Total	27.4		1.00	0.230	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.258	J	1.00	0.250	ug/L	1		8260D	Total/NA
Naphthalene	5.35		5.00	2.40	ug/L	1		8260D	Total/NA
Ethylene Dibromide (EDB)	0.151		0.0186	0.00518	ug/L	1		8011	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 680-219295-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	416		10.0	2.70	ug/L	10		8260D	Total/NA
Ethylbenzene	232		10.0	2.00	ug/L	10		8260D	Total/NA
Toluene	44.3		10.0	2.50	ug/L	10		8260D	Total/NA
Xylenes, Total	1520		10.0	2.30	ug/L	10		8260D	Total/NA
Naphthalene	169		50.0	24.0	ug/L	10		8260D	Total/NA
Ethylene Dibromide (EDB)	1.19		0.177	0.0493	ug/L	10		8011	Total/NA

Client Sample ID: MW-21R

Lab Sample ID: 680-219295-9

No Detections.

Client Sample ID: MW-22

Lab Sample ID: 680-219295-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6310		100	27.0	ug/L	100		8260D	Total/NA
Ethylbenzene	2060		100	20.0	ug/L	100		8260D	Total/NA
Toluene	18300		100	25.0	ug/L	100		8260D	Total/NA
Xylenes, Total	10700		100	23.0	ug/L	100		8260D	Total/NA
Naphthalene	420	J	500	240	ug/L	100		8260D	Total/NA
Ethylene Dibromide (EDB)	44.8		20.7	5.74	ug/L	1000		8011	Total/NA

Client Sample ID: MW-23

Lab Sample ID: 680-219295-11

No Detections.

Client Sample ID: MW-24

Lab Sample ID: 680-219295-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4760		50.0	13.5	ug/L	50		8260D	Total/NA
Ethylbenzene	1350		50.0	10.0	ug/L	50		8260D	Total/NA
Toluene	9790		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total	8740		50.0	11.5	ug/L	50		8260D	Total/NA
1,2-Dichloroethane	251		50.0	12.5	ug/L	50		8260D	Total/NA
Naphthalene	543		250	120	ug/L	50		8260D	Total/NA
Isopropyl Ether (DIPE)	101	J	500	35.0	ug/L	50		8260D	Total/NA
Ethylene Dibromide (EDB)	156		18.9	5.26	ug/L	1000		8011	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-25 — Lab Sample ID: 680-219295-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	10.7		1.00	0.270	ug/L	1		8260D	Total/NA
Ethylbenzene	56.5		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	72.1		1.00	0.250	ug/L	1		8260D	Total/NA
Xylenes, Total - DL	174		5.00	1.15	ug/L	5		8260D	Total/NA
Ethylene Dibromide (EDB)	0.0260	p	0.0186	0.00518	ug/L	1		8011	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 680-219295-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (EDB)	0.0103	J	0.0189	0.00526	ug/L	1		8011	Total/NA

Client Sample ID: MW-28 — Lab Sample ID: 680-219295-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (EDB)	0.00966	J p	0.0182	0.00506	ug/L	1		8011	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 680-219295-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	218		50.0	13.5	ug/L	50		8260D	Total/NA
Ethylbenzene	81.4		50.0	10.0	ug/L	50		8260D	Total/NA
Toluene	213		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total	472		50.0	11.5	ug/L	50		8260D	Total/NA
Naphthalene	195	J	250	120	ug/L	50		8260D	Total/NA
Benzene - RA	1670		50.0	13.5	ug/L	50		8260D	Total/NA
Ethylbenzene - RA	438		50.0	10.0	ug/L	50		8260D	Total/NA
Toluene - RA	1260		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total - RA	2620		50.0	11.5	ug/L	50		8260D	Total/NA
Naphthalene - RA	232	J	250	120	ug/L	50		8260D	Total/NA
Ethylene Dibromide (EDB)	14.5		1.79	0.499	ug/L	100		8011	Total/NA

Client Sample ID: MW-31 — Lab Sample ID: 680-219295-17

No Detections.

Client Sample ID: MW-32 — Lab Sample ID: 680-219295-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.54		1.00	0.250	ug/L	1		8260D	Total/NA
Ethylene Dibromide (EDB)	0.0327	p F1	0.0189	0.00524	ug/L	1		8011	Total/NA

Client Sample ID: DW-1 — Lab Sample ID: 680-219295-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	75.4		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	49.8		1.00	0.250	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	19.7		1.00	0.250	ug/L	1		8260D	Total/NA
Naphthalene	27.4		5.00	2.40	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	24.9		10.0	0.700	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	746		20.0	8.60	ug/L	1		8260D	Total/NA
Benzene - DL	2420		20.0	5.40	ug/L	20		8260D	Total/NA
Xylenes, Total - DL	627		20.0	4.60	ug/L	20		8260D	Total/NA
Ethylene Dibromide (EDB)	8.42		1.83	0.509	ug/L	100		8011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DW-2 — Lab Sample ID: 680-219295-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8560		200	54.0	ug/L	200		8260D	Total/NA
Ethylbenzene	874		200	40.0	ug/L	200		8260D	Total/NA
Toluene	7790		200	50.0	ug/L	200		8260D	Total/NA
Xylenes, Total	5040		200	46.0	ug/L	200		8260D	Total/NA
Ethylene Dibromide (EDB)	55.9		17.8	4.94	ug/L	1000		8011	Total/NA

Client Sample ID: DW-3 — Lab Sample ID: 680-219295-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	138		1.00	0.270	ug/L	1		8260D	Total/NA
Xylenes, Total	194		1.00	0.230	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	5.60		1.00	0.250	ug/L	1		8260D	Total/NA
Naphthalene	11.2		5.00	2.40	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	6.41	J	10.0	0.700	ug/L	1		8260D	Total/NA
tert-Butyl alcohol (TBA)	13.0	J	50.0	6.90	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	140		20.0	8.60	ug/L	1		8260D	Total/NA
Ethylene Dibromide (EDB)	0.979		0.188	0.0522	ug/L	10		8011	Total/NA

Client Sample ID: DW-4 — Lab Sample ID: 680-219295-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5.18		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	9.13		1.00	0.250	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	31.1		1.00	0.250	ug/L	1		8260D	Total/NA
Naphthalene	76.7		5.00	2.40	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	29.9		10.0	0.700	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	777		20.0	8.60	ug/L	1		8260D	Total/NA
Benzene - DL	1370		20.0	5.40	ug/L	20		8260D	Total/NA
Xylenes, Total - DL	517		20.0	4.60	ug/L	20		8260D	Total/NA
Ethylene Dibromide (EDB)	2.36		0.454	0.126	ug/L	25		8011	Total/NA

Client Sample ID: DW-5 — Lab Sample ID: 680-219295-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.284	J	1.00	0.250	ug/L	1		8260D	Total/NA
Naphthalene	6.74		5.00	2.40	ug/L	1		8260D	Total/NA
Ethylene Dibromide (EDB)	0.0102	J	0.0171	0.00474	ug/L	1		8011	Total/NA

Client Sample ID: DW-6 — Lab Sample ID: 680-219295-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1980		50.0	13.5	ug/L	50		8260D	Total/NA
Toluene	466		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total	460		50.0	11.5	ug/L	50		8260D	Total/NA
1,2-Dichloroethane	234		50.0	12.5	ug/L	50		8260D	Total/NA
Isopropyl Ether (DIPE)	151	J	500	35.0	ug/L	50		8260D	Total/NA
tert-Amyl alcohol	3050		1000	430	ug/L	50		8260D	Total/NA
Ethylene Dibromide (EDB)	9.61		1.79	0.499	ug/L	100		8011	Total/NA

Client Sample ID: DDW-1A (83.5') — Lab Sample ID: 680-219295-25

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1B (92.5') — Lab Sample ID: 680-219295-26

No Detections.

Client Sample ID: DDW-1C (102.5') — Lab Sample ID: 680-219295-27

No Detections.

Client Sample ID: DDW-1D (112.5') — Lab Sample ID: 680-219295-28

No Detections.

Client Sample ID: DDW-1E (119.5') — Lab Sample ID: 680-219295-29

No Detections.

Client Sample ID: DDW-2 — Lab Sample ID: 680-219295-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.74		1.00	0.270	ug/L	1		8260D	Total/NA
Xylenes, Total	0.978	J	1.00	0.230	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.501	J	1.00	0.250	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	9.71	J	20.0	8.60	ug/L	1		8260D	Total/NA

Client Sample ID: DDW-3 — Lab Sample ID: 680-219295-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (EDB)	0.00626	J p	0.0177	0.00493	ug/L	1		8011	Total/NA

Client Sample ID: DDW-4 — Lab Sample ID: 680-219295-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	33.7		1.00	0.270	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	12.4		1.00	0.250	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	9.29	J	10.0	0.700	ug/L	1		8260D	Total/NA
tert-Butyl alcohol (TBA)	41.0	J	50.0	6.90	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	235		20.0	8.60	ug/L	1		8260D	Total/NA
Ethylene Dibromide (EDB)	0.256		0.0938	0.0260	ug/L	5		8011	Total/NA

Client Sample ID: RW-2 — Lab Sample ID: 680-219295-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	195		10.0	2.00	ug/L	10		8260D	Total/NA
Toluene	45.1		10.0	2.50	ug/L	10		8260D	Total/NA
Xylenes, Total	947		10.0	2.30	ug/L	10		8260D	Total/NA
Naphthalene	88.5		50.0	24.0	ug/L	10		8260D	Total/NA

Client Sample ID: EP-4 — Lab Sample ID: 680-219295-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	85.8	J	100	27.0	ug/L	100		8260D	Total/NA
Ethylbenzene	1010		100	20.0	ug/L	100		8260D	Total/NA
Toluene	1750		100	25.0	ug/L	100		8260D	Total/NA
Xylenes, Total	5380		100	23.0	ug/L	100		8260D	Total/NA
Naphthalene	365	J	500	240	ug/L	100		8260D	Total/NA
Ethylene Dibromide (EDB)	0.0165	J p	0.0178	0.00496	ug/L	1		8011	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: EP-12 — Lab Sample ID: 680-219295-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6650		2000	540	ug/L	2000		8260D	Total/NA
Ethylbenzene	9880		2000	400	ug/L	2000		8260D	Total/NA
Toluene	28300		2000	500	ug/L	2000		8260D	Total/NA
Xylenes, Total	123000		2000	460	ug/L	2000		8260D	Total/NA
Naphthalene	33100		10000	4800	ug/L	2000		8260D	Total/NA
Ethylene Dibromide (EDB)	103		19.4	5.38	ug/L	1000		8011	Total/NA

Client Sample ID: EP-20 — Lab Sample ID: 680-219295-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14700		250	67.5	ug/L	250		8260D	Total/NA
Ethylbenzene	1780		250	50.0	ug/L	250		8260D	Total/NA
Toluene	30700		250	62.5	ug/L	250		8260D	Total/NA
Xylenes, Total	17500		250	57.5	ug/L	250		8260D	Total/NA
Naphthalene	1240	J	1250	600	ug/L	250		8260D	Total/NA
Ethylene Dibromide (EDB)	412		91.0	25.3	ug/L	5000		8011	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 680-219295-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3180		100	27.0	ug/L	100		8260D	Total/NA
Ethylbenzene	1070		100	20.0	ug/L	100		8260D	Total/NA
Toluene	12000		100	25.0	ug/L	100		8260D	Total/NA
Xylenes, Total	5800		100	23.0	ug/L	100		8260D	Total/NA
1,2-Dichloroethane	55.7	J	100	25.0	ug/L	100		8260D	Total/NA
Naphthalene	436	J	500	240	ug/L	100		8260D	Total/NA
Isopropyl Ether (DIPE)	72.2	J	1000	70.0	ug/L	100		8260D	Total/NA
Ethylene Dibromide (EDB)	19.2		9.38	2.60	ug/L	500		8011	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 680-219295-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	288		10.0	2.00	ug/L	10		8260D	Total/NA
Toluene	102		10.0	2.50	ug/L	10		8260D	Total/NA
Xylenes, Total	1520	F1	10.0	2.30	ug/L	10		8260D	Total/NA
Naphthalene	110		50.0	24.0	ug/L	10		8260D	Total/NA
Ethylene Dibromide (EDB)	0.0298		0.0183	0.00509	ug/L	1		8011	Total/NA

Client Sample ID: FB — Lab Sample ID: 680-219295-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (EDB)	0.00591	J p	0.0190	0.00529	ug/L	1		8011	Total/NA

Client Sample ID: GAC — Lab Sample ID: 680-219295-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (EDB)	0.00889	J	0.0185	0.00513	ug/L	1		8011	Total/NA

Client Sample ID: SW-1 — Lab Sample ID: 680-219295-41

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: SW-2 — Lab Sample ID: 680-219295-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.546	J	1.00	0.270	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.303	J	1.00	0.250	ug/L	1		8260D	Total/NA

Client Sample ID: SW-3 — Lab Sample ID: 680-219295-43

No Detections.

Client Sample ID: SW-4 — Lab Sample ID: 680-219295-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (EDB)	0.0503	p	0.0177	0.00492	ug/L	1		8011	Total/NA

Client Sample ID: TB-1 — Lab Sample ID: 680-219295-45

No Detections.

Client Sample ID: TB-2 — Lab Sample ID: 680-219295-46

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-1

Date Collected: 08/03/22 12:23
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-1

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 13:38	1
Ethylbenzene	**78.2**		1.00	0.200	ug/L			08/09/22 13:38	1
Toluene	**0.741**	**J**	1.00	0.250	ug/L			08/09/22 13:38	1
Xylenes, Total	**227**		1.00	0.230	ug/L			08/09/22 13:38	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 13:38	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 13:38	1
Naphthalene	**49.2**		5.00	2.40	ug/L			08/09/22 13:38	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 13:38	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			08/09/22 13:38	1
Ethanol	ND		100	50.0	ug/L			08/09/22 13:38	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 13:38	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 13:38	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 13:38	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 13:38	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*70 - 130*		*08/09/22 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*08/09/22 13:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 13:38*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*08/09/22 13:38*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0176	0.00490	ug/L		08/09/22 16:15	08/09/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*112*		*60 - 144*	*08/09/22 16:15*	*08/09/22 18:57*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-2

Date Collected: 08/03/22 12:15
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-2

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2720**		100	27.0	ug/L			08/09/22 18:04	100
Ethylbenzene	**1590**		100	20.0	ug/L			08/09/22 18:04	100
Toluene	**10000**		100	25.0	ug/L			08/09/22 18:04	100
Xylenes, Total	**9090**		100	23.0	ug/L			08/09/22 18:04	100
1,2-Dichloroethane	ND		100	25.0	ug/L			08/09/22 18:04	100
Methyl-t-Butyl Ether (MTBE)	ND		500	81.0	ug/L			08/09/22 18:04	100
Naphthalene	**611**		500	240	ug/L			08/09/22 18:04	100
Isopropyl Ether (DIPE)	ND		1000	70.0	ug/L			08/09/22 18:04	100
tert-Butyl alcohol (TBA)	ND	*+	5000	690	ug/L			08/09/22 18:04	100
Ethanol	ND		10000	5000	ug/L			08/09/22 18:04	100
Tert-amyl-methyl ether (TAME)	ND		100	78.0	ug/L			08/09/22 18:04	100
Ethyl tert-Butyl Ether (ETBE)	ND		100	72.0	ug/L			08/09/22 18:04	100
tert-Amyl alcohol	ND		2000	860	ug/L			08/09/22 18:04	100
3,3-Dimethyl-1-butanol	ND		2000	700	ug/L			08/09/22 18:04	100
tert-Butyl Formate	ND		2000	690	ug/L			08/09/22 18:04	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 18:04*	*100*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 18:04*	*100*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 18:04*	*100*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 18:04*	*100*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**13.7**		3.74	1.04	ug/L		08/09/22 16:15	08/10/22 11:42	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 11:42*	*200*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-4

Date Collected: 08/03/22 12:35
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-3

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11100**		200	54.0	ug/L			08/09/22 17:37	200
Ethylbenzene	**1580**		200	40.0	ug/L			08/09/22 17:37	200
Toluene	**22600**		200	50.0	ug/L			08/09/22 17:37	200
Xylenes, Total	**10900**		200	46.0	ug/L			08/09/22 17:37	200
1,2-Dichloroethane	ND		200	50.0	ug/L			08/09/22 17:37	200
Methyl-t-Butyl Ether (MTBE)	ND		1000	162	ug/L			08/09/22 17:37	200
Naphthalene	**1030**		1000	480	ug/L			08/09/22 17:37	200
Isopropyl Ether (DIPE)	ND		2000	140	ug/L			08/09/22 17:37	200
tert-Butyl alcohol (TBA)	ND	*+	10000	1380	ug/L			08/09/22 17:37	200
Ethanol	ND		20000	10000	ug/L			08/09/22 17:37	200
Tert-amyl-methyl ether (TAME)	ND		200	156	ug/L			08/09/22 17:37	200
Ethyl tert-Butyl Ether (ETBE)	ND		200	144	ug/L			08/09/22 17:37	200
tert-Amyl alcohol	ND		4000	1720	ug/L			08/09/22 17:37	200
3,3-Dimethyl-1-butanol	ND		4000	1400	ug/L			08/09/22 17:37	200
tert-Butyl Formate	ND		4000	1380	ug/L			08/09/22 17:37	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 17:37*	*200*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 17:37*	*200*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 17:37*	*200*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 17:37*	*200*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**69.2**		19.3	5.37	ug/L		08/09/22 16:15	08/10/22 11:52	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 11:52*	*1000*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-5

Date Collected: 08/03/22 12:28
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-4

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**979**		10.0	2.70	ug/L			08/09/22 21:10	10
Ethylbenzene	**315**		10.0	2.00	ug/L			08/09/22 21:10	10
Toluene	**1610**		10.0	2.50	ug/L			08/09/22 21:10	10
Xylenes, Total	**1470**		10.0	2.30	ug/L			08/09/22 21:10	10
1,2-Dichloroethane	ND		10.0	2.50	ug/L			08/09/22 21:10	10
Methyl-t-Butyl Ether (MTBE)	ND		50.0	8.10	ug/L			08/09/22 21:10	10
Naphthalene	**91.8**		50.0	24.0	ug/L			08/09/22 21:10	10
Isopropyl Ether (DIPE)	ND		100	7.00	ug/L			08/09/22 21:10	10
tert-Butyl alcohol (TBA)	ND	*+	500	69.0	ug/L			08/09/22 21:10	10
Ethanol	ND		1000	500	ug/L			08/09/22 21:10	10
Tert-amyl-methyl ether (TAME)	ND		10.0	7.80	ug/L			08/09/22 21:10	10
Ethyl tert-Butyl Ether (ETBE)	ND		10.0	7.20	ug/L			08/09/22 21:10	10
tert-Amyl alcohol	ND		200	86.0	ug/L			08/09/22 21:10	10
3,3-Dimethyl-1-butanol	ND		200	70.0	ug/L			08/09/22 21:10	10
tert-Butyl Formate	ND		200	69.0	ug/L			08/09/22 21:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 21:10*	*10*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/09/22 21:10*	*10*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 21:10*	*10*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 21:10*	*10*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**9.50**		1.77	0.492	ug/L		08/09/22 16:15	08/10/22 12:02	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 12:02*	*100*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-12

Date Collected: 08/03/22 12:05
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-5

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3290**		100	27.0	ug/L			08/09/22 18:30	100
Ethylbenzene	**982**		100	20.0	ug/L			08/09/22 18:30	100
Toluene	**11400**		100	25.0	ug/L			08/09/22 18:30	100
Xylenes, Total	**5610**		100	23.0	ug/L			08/09/22 18:30	100
1,2-Dichloroethane	**57.2**	**J**	100	25.0	ug/L			08/09/22 18:30	100
Methyl-t-Butyl Ether (MTBE)	ND		500	81.0	ug/L			08/09/22 18:30	100
Naphthalene	**543**		500	240	ug/L			08/09/22 18:30	100
Isopropyl Ether (DIPE)	ND		1000	70.0	ug/L			08/09/22 18:30	100
tert-Butyl alcohol (TBA)	ND	*+	5000	690	ug/L			08/09/22 18:30	100
Ethanol	ND		10000	5000	ug/L			08/09/22 18:30	100
Tert-amyl-methyl ether (TAME)	ND		100	78.0	ug/L			08/09/22 18:30	100
Ethyl tert-Butyl Ether (ETBE)	ND		100	72.0	ug/L			08/09/22 18:30	100
tert-Amyl alcohol	ND		2000	860	ug/L			08/09/22 18:30	100
3,3-Dimethyl-1-butanol	ND		2000	700	ug/L			08/09/22 18:30	100
tert-Butyl Formate	ND		2000	690	ug/L			08/09/22 18:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*08/09/22 18:30*	*100*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 18:30*	*100*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 18:30*	*100*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 18:30*	*100*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**20.1**		7.18	1.99	ug/L		08/09/22 16:15	08/10/22 12:12	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 12:12*	*400*

Client Sample ID: MW-13
Date Collected: 08/03/22 12:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-6
Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3350**		50.0	13.5	ug/L			08/09/22 19:24	50
Ethylbenzene	**960**		50.0	10.0	ug/L			08/09/22 19:24	50
Toluene	**6840**		50.0	12.5	ug/L			08/09/22 19:24	50
Xylenes, Total	**5070**		50.0	11.5	ug/L			08/09/22 19:24	50
1,2-Dichloroethane	**20.3**	**J**	50.0	12.5	ug/L			08/09/22 19:24	50
Methyl-t-Butyl Ether (MTBE)	ND		250	40.5	ug/L			08/09/22 19:24	50
Naphthalene	**400**		250	120	ug/L			08/09/22 19:24	50
Isopropyl Ether (DIPE)	ND		500	35.0	ug/L			08/09/22 19:24	50
tert-Butyl alcohol (TBA)	ND	*+	2500	345	ug/L			08/09/22 19:24	50
Ethanol	ND		5000	2500	ug/L			08/09/22 19:24	50
Tert-amyl-methyl ether (TAME)	ND		50.0	39.0	ug/L			08/09/22 19:24	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			08/09/22 19:24	50
tert-Amyl alcohol	ND		1000	430	ug/L			08/09/22 19:24	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			08/09/22 19:24	50
tert-Butyl Formate	ND		1000	345	ug/L			08/09/22 19:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 19:24*	*50*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 19:24*	*50*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 19:24*	*50*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 19:24*	*50*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**24.9**		7.22	2.01	ug/L		08/09/22 16:15	08/10/22 12:22	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 12:22*	*400*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-19R

Date Collected: 08/03/22 11:47
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-7

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 14:04	1
Ethylbenzene	**0.418**	**J**	1.00	0.200	ug/L			08/09/22 14:04	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 14:04	1
Xylenes, Total	**27.4**		1.00	0.230	ug/L			08/09/22 14:04	1
1,2-Dichloroethane	**0.258**	**J**	1.00	0.250	ug/L			08/09/22 14:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 14:04	1
Naphthalene	**5.35**		5.00	2.40	ug/L			08/09/22 14:04	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 14:04	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			08/09/22 14:04	1
Ethanol	ND		100	50.0	ug/L			08/09/22 14:04	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 14:04	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 14:04	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 14:04	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 14:04	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/09/22 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*08/09/22 14:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/09/22 14:04*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 14:04*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.151**		0.0186	0.00518	ug/L		08/09/22 16:15	08/09/22 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*131*		*60 - 144*	*08/09/22 16:15*	*08/09/22 19:56*	*1*

Client Sample ID: MW-20

Date Collected: 08/03/22 12:08
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-8

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**416**		10.0	2.70	ug/L			08/09/22 21:36	10
Ethylbenzene	**232**		10.0	2.00	ug/L			08/09/22 21:36	10
Toluene	**44.3**		10.0	2.50	ug/L			08/09/22 21:36	10
Xylenes, Total	**1520**		10.0	2.30	ug/L			08/09/22 21:36	10
1,2-Dichloroethane	ND		10.0	2.50	ug/L			08/09/22 21:36	10
Methyl-t-Butyl Ether (MTBE)	ND		50.0	8.10	ug/L			08/09/22 21:36	10
Naphthalene	**169**		50.0	24.0	ug/L			08/09/22 21:36	10
Isopropyl Ether (DIPE)	ND		100	7.00	ug/L			08/09/22 21:36	10
tert-Butyl alcohol (TBA)	ND	*+	500	69.0	ug/L			08/09/22 21:36	10
Ethanol	ND		1000	500	ug/L			08/09/22 21:36	10
Tert-amyl-methyl ether (TAME)	ND		10.0	7.80	ug/L			08/09/22 21:36	10
Ethyl tert-Butyl Ether (ETBE)	ND		10.0	7.20	ug/L			08/09/22 21:36	10
tert-Amyl alcohol	ND		200	86.0	ug/L			08/09/22 21:36	10
3,3-Dimethyl-1-butanol	ND		200	70.0	ug/L			08/09/22 21:36	10
tert-Butyl Formate	ND		200	69.0	ug/L			08/09/22 21:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 21:36*	*10*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 21:36*	*10*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/09/22 21:36*	*10*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 21:36*	*10*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**1.19**		0.177	0.0493	ug/L		08/09/22 16:15	08/10/22 12:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 12:31*	*10*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-21R

Date Collected: 08/03/22 12:03
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-9

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 14:30	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 14:30	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 14:30	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 14:30	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 14:30	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 14:30	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 14:30	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 14:30	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			08/09/22 14:30	1
Ethanol	ND		100	50.0	ug/L			08/09/22 14:30	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 14:30	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 14:30	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 14:30	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 14:30	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 14:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/09/22 14:30*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/09/22 14:30*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND	F1	0.0184	0.00510	ug/L		08/09/22 16:15	08/09/22 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*96*		*60 - 144*	*08/09/22 16:15*	*08/09/22 20:15*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-22

Date Collected: 08/03/22 12:10
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-10

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6310**		100	27.0	ug/L			08/10/22 18:10	100
Ethylbenzene	**2060**		100	20.0	ug/L			08/10/22 18:10	100
Toluene	**18300**		100	25.0	ug/L			08/10/22 18:10	100
Xylenes, Total	**10700**		100	23.0	ug/L			08/10/22 18:10	100
1,2-Dichloroethane	ND		100	25.0	ug/L			08/10/22 18:10	100
Methyl-t-Butyl Ether (MTBE)	ND		500	81.0	ug/L			08/10/22 18:10	100
Naphthalene	**420**	**J**	500	240	ug/L			08/10/22 18:10	100
Isopropyl Ether (DIPE)	ND		1000	70.0	ug/L			08/10/22 18:10	100
tert-Butyl alcohol (TBA)	ND		5000	690	ug/L			08/10/22 18:10	100
Ethanol	ND		10000	5000	ug/L			08/10/22 18:10	100
Tert-amyl-methyl ether (TAME)	ND		100	78.0	ug/L			08/10/22 18:10	100
Ethyl tert-Butyl Ether (ETBE)	ND		100	72.0	ug/L			08/10/22 18:10	100
tert-Amyl alcohol	ND		2000	860	ug/L			08/10/22 18:10	100
3,3-Dimethyl-1-butanol	ND		2000	700	ug/L			08/10/22 18:10	100
tert-Butyl Formate	ND		2000	690	ug/L			08/10/22 18:10	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/10/22 18:10*	*100*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*08/10/22 18:10*	*100*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/10/22 18:10*	*100*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/10/22 18:10*	*100*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**44.8**		20.7	5.74	ug/L		08/09/22 16:15	08/10/22 12:41	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 12:41*	*1000*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-23

Date Collected: 08/03/22 11:25
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-11

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 14:57	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 14:57	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 14:57	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 14:57	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 14:57	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 14:57	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 14:57	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 14:57	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			08/09/22 14:57	1
Ethanol	ND		100	50.0	ug/L			08/09/22 14:57	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 14:57	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 14:57	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 14:57	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 14:57	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 14:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 14:57*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 14:57*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0189	0.00526	ug/L		08/09/22 16:15	08/09/22 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*85*	*p*	*60 - 144*	*08/09/22 16:15*	*08/09/22 20:35*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-24

Date Collected: 08/03/22 12:20
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-12

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4760**		50.0	13.5	ug/L			08/10/22 18:30	50
Ethylbenzene	**1350**		50.0	10.0	ug/L			08/10/22 18:30	50
Toluene	**9790**		50.0	12.5	ug/L			08/10/22 18:30	50
Xylenes, Total	**8740**		50.0	11.5	ug/L			08/10/22 18:30	50
1,2-Dichloroethane	**251**		50.0	12.5	ug/L			08/10/22 18:30	50
Methyl-t-Butyl Ether (MTBE)	ND		250	40.5	ug/L			08/10/22 18:30	50
Naphthalene	**543**		250	120	ug/L			08/10/22 18:30	50
Isopropyl Ether (DIPE)	**101**	**J**	500	35.0	ug/L			08/10/22 18:30	50
tert-Butyl alcohol (TBA)	ND		2500	345	ug/L			08/10/22 18:30	50
Ethanol	ND		5000	2500	ug/L			08/10/22 18:30	50
Tert-amyl-methyl ether (TAME)	ND		50.0	39.0	ug/L			08/10/22 18:30	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			08/10/22 18:30	50
tert-Amyl alcohol	ND		1000	430	ug/L			08/10/22 18:30	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			08/10/22 18:30	50
tert-Butyl Formate	ND		1000	345	ug/L			08/10/22 18:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 18:30*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*08/10/22 18:30*	*50*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/10/22 18:30*	*50*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/10/22 18:30*	*50*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**156**		18.9	5.26	ug/L		08/09/22 16:15	08/10/22 12:51	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 12:51*	*1000*

Client Sample ID: MW-25
Date Collected: 08/03/22 12:13
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-13
Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**10.7**		1.00	0.270	ug/L			08/10/22 16:10	1
Ethylbenzene	**56.5**		1.00	0.200	ug/L			08/10/22 16:10	1
Toluene	**72.1**		1.00	0.250	ug/L			08/10/22 16:10	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 16:10	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 16:10	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 16:10	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 16:10	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 16:10	1
Ethanol	ND		100	50.0	ug/L			08/10/22 16:10	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 16:10	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 16:10	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 16:10	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 16:10	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*08/10/22 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*08/10/22 16:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/10/22 16:10*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/10/22 16:10*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**174**		5.00	1.15	ug/L			08/11/22 22:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/11/22 22:16*	*5*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/11/22 22:16*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/11/22 22:16*	*5*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/11/22 22:16*	*5*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0260**	**p**	0.0186	0.00518	ug/L		08/09/22 16:15	08/09/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*104*		*60 - 144*	*08/09/22 16:15*	*08/09/22 20:54*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-27

Date Collected: 08/03/22 11:35
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-14

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 15:24	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 15:24	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 15:24	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 15:24	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 15:24	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 15:24	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 15:24	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 15:24	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			08/09/22 15:24	1
Ethanol	ND		100	50.0	ug/L			08/09/22 15:24	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 15:24	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 15:24	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 15:24	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 15:24	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/09/22 15:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 15:24*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 15:24*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0103**	**J**	0.0189	0.00526	ug/L		08/09/22 16:15	08/09/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*113*		*60 - 144*	*08/09/22 16:15*	*08/09/22 21:04*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-28

Date Collected: 08/03/22 11:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-15

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 15:50	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 15:50	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 15:50	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 15:50	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 15:50	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 15:50	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 15:50	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 15:50	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			08/09/22 15:50	1
Ethanol	ND		100	50.0	ug/L			08/09/22 15:50	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 15:50	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 15:50	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 15:50	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 15:50	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 15:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 15:50*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 15:50*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.00966**	**J p**	0.0182	0.00506	ug/L		08/09/22 16:15	08/09/22 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*124*		*60 - 144*	*08/09/22 16:15*	*08/09/22 21:14*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-29

Date Collected: 08/03/22 11:42
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-16

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**218**		50.0	13.5	ug/L			08/09/22 19:50	50
Ethylbenzene	**81.4**		50.0	10.0	ug/L			08/09/22 19:50	50
Toluene	**213**		50.0	12.5	ug/L			08/09/22 19:50	50
Xylenes, Total	**472**		50.0	11.5	ug/L			08/09/22 19:50	50
1,2-Dichloroethane	ND		50.0	12.5	ug/L			08/09/22 19:50	50
Methyl-t-Butyl Ether (MTBE)	ND		250	40.5	ug/L			08/09/22 19:50	50
Naphthalene	**195**	**J**	250	120	ug/L			08/09/22 19:50	50
Isopropyl Ether (DIPE)	ND		500	35.0	ug/L			08/09/22 19:50	50
tert-Butyl alcohol (TBA)	ND	*+	2500	345	ug/L			08/09/22 19:50	50
Ethanol	ND		5000	2500	ug/L			08/09/22 19:50	50
Tert-amyl-methyl ether (TAME)	ND		50.0	39.0	ug/L			08/09/22 19:50	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			08/09/22 19:50	50
tert-Amyl alcohol	ND		1000	430	ug/L			08/09/22 19:50	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			08/09/22 19:50	50
tert-Butyl Formate	ND		1000	345	ug/L			08/09/22 19:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 19:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 19:50*	*50*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/09/22 19:50*	*50*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 19:50*	*50*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1670**		50.0	13.5	ug/L			08/12/22 19:24	50
Ethylbenzene	**438**		50.0	10.0	ug/L			08/12/22 19:24	50
Toluene	**1260**		50.0	12.5	ug/L			08/12/22 19:24	50
Xylenes, Total	**2620**		50.0	11.5	ug/L			08/12/22 19:24	50
1,2-Dichloroethane	ND		50.0	12.5	ug/L			08/12/22 19:24	50
Methyl-t-Butyl Ether (MTBE)	ND		250	40.5	ug/L			08/12/22 19:24	50
Naphthalene	**232**	**J**	250	120	ug/L			08/12/22 19:24	50
Isopropyl Ether (DIPE)	ND		500	35.0	ug/L			08/12/22 19:24	50
tert-Butyl alcohol (TBA)	ND		2500	345	ug/L			08/12/22 19:24	50
Ethanol	ND		5000	2500	ug/L			08/12/22 19:24	50
Tert-amyl-methyl ether (TAME)	ND		50.0	39.0	ug/L			08/12/22 19:24	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			08/12/22 19:24	50
tert-Amyl alcohol	ND		1000	430	ug/L			08/12/22 19:24	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			08/12/22 19:24	50
tert-Butyl Formate	ND		1000	345	ug/L			08/12/22 19:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/12/22 19:24*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*08/12/22 19:24*	*50*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/12/22 19:24*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*08/12/22 19:24*	*50*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**14.5**		1.79	0.499	ug/L		08/09/22 16:15	08/10/22 13:11	100

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-29
Date Collected: 08/03/22 11:42
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-16
Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	0	D	60 - 144	08/09/22 16:15	08/10/22 13:11	100

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-31

Date Collected: 08/03/22 10:42
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-17

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 15:43	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 15:43	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 15:43	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 15:43	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 15:43	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 15:43	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 15:43	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 15:43	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 15:43	1
Ethanol	ND		100	50.0	ug/L			08/09/22 15:43	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 15:43	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 15:43	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 15:43	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 15:43	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*08/09/22 15:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/09/22 15:43*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/09/22 15:43*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.185	0.0515	ug/L		08/11/22 19:10	08/11/22 22:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/11/22 19:10*	*08/11/22 22:13*	*10*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-32

Date Collected: 08/03/22 11:31
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-18

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 16:07	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 16:07	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 16:07	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 16:07	1
1,2-Dichloroethane	**1.54**		1.00	0.250	ug/L			08/09/22 16:07	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 16:07	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 16:07	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 16:07	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 16:07	1
Ethanol	ND		100	50.0	ug/L			08/09/22 16:07	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 16:07	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 16:07	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 16:07	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 16:07	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/09/22 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 16:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 16:07*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/09/22 16:07*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0327**	**p F1**	0.0189	0.00524	ug/L		08/09/22 16:15	08/09/22 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*80*	*p*	*60 - 144*	*08/09/22 16:15*	*08/09/22 21:43*	*1*

Client Sample ID: DW-1
Lab Sample ID: 680-219295-19

Date Collected: 08/03/22 11:49
Matrix: Ground Water

Date Received: 08/04/22 16:35

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**75.4**		1.00	0.200	ug/L			08/09/22 13:46	1
Toluene	**49.8**		1.00	0.250	ug/L			08/09/22 13:46	1
1,2-Dichloroethane	**19.7**		1.00	0.250	ug/L			08/09/22 13:46	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 13:46	1
Naphthalene	**27.4**		5.00	2.40	ug/L			08/09/22 13:46	1
Isopropyl Ether (DIPE)	**24.9**		10.0	0.700	ug/L			08/09/22 13:46	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 13:46	1
Ethanol	ND		100	50.0	ug/L			08/09/22 13:46	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 13:46	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 13:46	1
tert-Amyl alcohol	**746**		20.0	8.60	ug/L			08/09/22 13:46	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 13:46	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*70 - 130*		*08/09/22 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*08/09/22 13:46*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*08/09/22 13:46*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 13:46*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2420**		20.0	5.40	ug/L			08/10/22 19:10	20
Xylenes, Total	**627**		20.0	4.60	ug/L			08/10/22 19:10	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 19:10*	*20*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*08/10/22 19:10*	*20*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/10/22 19:10*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/10/22 19:10*	*20*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**8.42**		1.83	0.509	ug/L		08/09/22 16:15	08/10/22 13:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 13:21*	*100*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DW-2

Date Collected: 08/03/22 11:37
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-20

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8560**		200	54.0	ug/L			08/10/22 19:30	200
Ethylbenzene	**874**		200	40.0	ug/L			08/10/22 19:30	200
Toluene	**7790**		200	50.0	ug/L			08/10/22 19:30	200
Xylenes, Total	**5040**		200	46.0	ug/L			08/10/22 19:30	200
1,2-Dichloroethane	ND		200	50.0	ug/L			08/10/22 19:30	200
Methyl-t-Butyl Ether (MTBE)	ND		1000	162	ug/L			08/10/22 19:30	200
Naphthalene	ND		1000	480	ug/L			08/10/22 19:30	200
Isopropyl Ether (DIPE)	ND		2000	140	ug/L			08/10/22 19:30	200
tert-Butyl alcohol (TBA)	ND		10000	1380	ug/L			08/10/22 19:30	200
Ethanol	ND		20000	10000	ug/L			08/10/22 19:30	200
Tert-amyl-methyl ether (TAME)	ND		200	156	ug/L			08/10/22 19:30	200
Ethyl tert-Butyl Ether (ETBE)	ND		200	144	ug/L			08/10/22 19:30	200
tert-Amyl alcohol	ND		4000	1720	ug/L			08/10/22 19:30	200
3,3-Dimethyl-1-butanol	ND		4000	1400	ug/L			08/10/22 19:30	200
tert-Butyl Formate	ND		4000	1380	ug/L			08/10/22 19:30	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/10/22 19:30*	*200*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*08/10/22 19:30*	*200*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/10/22 19:30*	*200*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/10/22 19:30*	*200*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**55.9**		17.8	4.94	ug/L		08/09/22 16:15	08/10/22 13:30	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 16:15*	*08/10/22 13:30*	*1000*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DW-3

Date Collected: 08/03/22 11:24
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-21

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**138**		1.00	0.270	ug/L			08/10/22 15:50	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 15:50	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 15:50	1
Xylenes, Total	**194**		1.00	0.230	ug/L			08/10/22 15:50	1
1,2-Dichloroethane	**5.60**		1.00	0.250	ug/L			08/10/22 15:50	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 15:50	1
Naphthalene	**11.2**		5.00	2.40	ug/L			08/10/22 15:50	1
Isopropyl Ether (DIPE)	**6.41**	**J**	10.0	0.700	ug/L			08/10/22 15:50	1
tert-Butyl alcohol (TBA)	**13.0**	**J**	50.0	6.90	ug/L			08/10/22 15:50	1
Ethanol	ND		100	50.0	ug/L			08/10/22 15:50	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 15:50	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 15:50	1
tert-Amyl alcohol	**140**		20.0	8.60	ug/L			08/10/22 15:50	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 15:50	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/10/22 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*08/10/22 15:50*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*08/10/22 15:50*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/10/22 15:50*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.979**		0.188	0.0522	ug/L		08/09/22 17:42	08/10/22 13:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 17:42*	*08/10/22 13:40*	*10*

Client Sample ID: DW-4
Date Collected: 08/03/22 11:55
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-22
Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**5.18**		1.00	0.200	ug/L			08/09/22 14:09	1
Toluene	**9.13**		1.00	0.250	ug/L			08/09/22 14:09	1
1,2-Dichloroethane	**31.1**		1.00	0.250	ug/L			08/09/22 14:09	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 14:09	1
Naphthalene	**76.7**		5.00	2.40	ug/L			08/09/22 14:09	1
Isopropyl Ether (DIPE)	**29.9**		10.0	0.700	ug/L			08/09/22 14:09	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 14:09	1
Ethanol	ND		100	50.0	ug/L			08/09/22 14:09	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 14:09	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 14:09	1
tert-Amyl alcohol	**777**		20.0	8.60	ug/L			08/09/22 14:09	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 14:09	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*08/09/22 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*08/09/22 14:09*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*08/09/22 14:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/09/22 14:09*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1370**		20.0	5.40	ug/L			08/10/22 16:30	20
Xylenes, Total	**517**		20.0	4.60	ug/L			08/10/22 16:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 16:30*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*08/10/22 16:30*	*20*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/10/22 16:30*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/10/22 16:30*	*20*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**2.36**		0.454	0.126	ug/L		08/09/22 17:42	08/10/22 13:50	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 17:42*	*08/10/22 13:50*	*25*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DW-5

Date Collected: 08/03/22 11:17
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-23

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 15:29	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 14:33	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 14:33	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 15:29	1
1,2-Dichloroethane	**0.284**	**J**	1.00	0.250	ug/L			08/09/22 14:33	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 14:33	1
Naphthalene	**6.74**		5.00	2.40	ug/L			08/09/22 14:33	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 14:33	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 14:33	1
Ethanol	ND		100	50.0	ug/L			08/09/22 14:33	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 14:33	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 14:33	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 14:33	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 14:33	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/09/22 14:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*08/09/22 14:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/10/22 15:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/09/22 14:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/10/22 15:29*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/09/22 14:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/10/22 15:29*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0102**	**J**	0.0171	0.00474	ug/L		08/09/22 17:42	08/10/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*80*	*p*	*60 - 144*	*08/09/22 17:42*	*08/10/22 00:00*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DW-6

Date Collected: 08/03/22 11:30
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-24

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1980**		50.0	13.5	ug/L			08/10/22 21:21	50
Ethylbenzene	ND		50.0	10.0	ug/L			08/10/22 21:21	50
Toluene	**466**		50.0	12.5	ug/L			08/10/22 21:21	50
Xylenes, Total	**460**		50.0	11.5	ug/L			08/10/22 21:21	50
1,2-Dichloroethane	**234**		50.0	12.5	ug/L			08/10/22 21:21	50
Methyl-t-Butyl Ether (MTBE)	ND		250	40.5	ug/L			08/10/22 21:21	50
Naphthalene	ND		250	120	ug/L			08/10/22 21:21	50
Isopropyl Ether (DIPE)	**151**	**J**	500	35.0	ug/L			08/10/22 21:21	50
tert-Butyl alcohol (TBA)	ND		2500	345	ug/L			08/10/22 21:21	50
Ethanol	ND		5000	2500	ug/L			08/10/22 21:21	50
Tert-amyl-methyl ether (TAME)	ND		50.0	39.0	ug/L			08/10/22 21:21	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			08/10/22 21:21	50
tert-Amyl alcohol	**3050**		1000	430	ug/L			08/10/22 21:21	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			08/10/22 21:21	50
tert-Butyl Formate	ND		1000	345	ug/L			08/10/22 21:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/10/22 21:21*	*50*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*08/10/22 21:21*	*50*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/10/22 21:21*	*50*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/10/22 21:21*	*50*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**9.61**		1.79	0.499	ug/L		08/09/22 17:42	08/10/22 14:00	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 17:42*	*08/10/22 14:00*	*100*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1A (83.5')

Date Collected: 08/03/22 09:52
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-25

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 15:20	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 15:20	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 15:20	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 15:20	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 15:20	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 15:20	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 15:20	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 15:20	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 15:20	1
Ethanol	ND		100	50.0	ug/L			08/09/22 15:20	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 15:20	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 15:20	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 15:20	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 15:20	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/09/22 15:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*08/09/22 15:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/09/22 15:20*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/09/22 15:20*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0187	0.00519	ug/L		08/09/22 17:42	08/10/22 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*105*		*60 - 144*	*08/09/22 17:42*	*08/10/22 00:20*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1B (92.5')

Date Collected: 08/03/22 09:57
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-26

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 16:30	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 16:30	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 16:30	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 16:30	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 16:30	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 16:30	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 16:30	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 16:30	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 16:30	1
Ethanol	ND		100	50.0	ug/L			08/09/22 16:30	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 16:30	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 16:30	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 16:30	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 16:30	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/09/22 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/09/22 16:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/09/22 16:30*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/09/22 16:30*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0187	0.00519	ug/L		08/09/22 17:42	08/10/22 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*100*		*60 - 144*	*08/09/22 17:42*	*08/10/22 00:30*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1C (102.5')

Date Collected: 08/03/22 10:04
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-27

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 16:54	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 16:54	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 16:54	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 16:54	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 16:54	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 16:54	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 16:54	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 16:54	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 16:54	1
Ethanol	ND		100	50.0	ug/L			08/09/22 16:54	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 16:54	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 16:54	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 16:54	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 16:54	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/09/22 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 16:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/09/22 16:54*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/09/22 16:54*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0184	0.00510	ug/L		08/09/22 17:42	08/10/22 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*125*		*60 - 144*	*08/09/22 17:42*	*08/10/22 00:39*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1D (112.5')

Date Collected: 08/03/22 10:10
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-28

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 17:41	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 17:41	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 17:41	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 17:41	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 17:41	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 17:41	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 17:41	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 17:41	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 17:41	1
Ethanol	ND		100	50.0	ug/L			08/09/22 17:41	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 17:41	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 17:41	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 17:41	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 17:41	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/09/22 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 17:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/09/22 17:41*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/09/22 17:41*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0185	0.00513	ug/L		08/09/22 17:42	08/10/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*93*		*60 - 144*	*08/09/22 17:42*	*08/10/22 00:49*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1E (119.5')

Date Collected: 08/03/22 10:15
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-29

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 18:04	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 18:04	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 18:04	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 18:04	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 18:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 18:04	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 18:04	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 18:04	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 18:04	1
Ethanol	ND		100	50.0	ug/L			08/09/22 18:04	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 18:04	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 18:04	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 18:04	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 18:04	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/09/22 18:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*08/09/22 18:04*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 18:04*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0179	0.00499	ug/L		08/09/22 17:42	08/10/22 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*114*		*60 - 144*	*08/09/22 17:42*	*08/10/22 00:59*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-2

Date Collected: 08/03/22 10:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-30

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.74**		1.00	0.270	ug/L			08/09/22 18:28	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 18:28	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 18:28	1
Xylenes, Total	**0.978**	**J**	1.00	0.230	ug/L			08/09/22 18:28	1
1,2-Dichloroethane	**0.501**	**J**	1.00	0.250	ug/L			08/09/22 18:28	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 18:28	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 18:28	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 18:28	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 18:28	1
Ethanol	ND		100	50.0	ug/L			08/09/22 18:28	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 18:28	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 18:28	1
tert-Amyl alcohol	**9.71**	**J**	20.0	8.60	ug/L			08/09/22 18:28	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 18:28	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/09/22 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 18:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/09/22 18:28*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/09/22 18:28*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0182	0.00506	ug/L		08/09/22 17:42	08/10/22 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*104*		*60 - 144*	*08/09/22 17:42*	*08/10/22 01:09*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-3

Date Collected: 08/03/22 11:19
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-31

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 18:51	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 18:51	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 18:51	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 18:51	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 18:51	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 18:51	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 18:51	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 18:51	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 18:51	1
Ethanol	ND		100	50.0	ug/L			08/09/22 18:51	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 18:51	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 18:51	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 18:51	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 18:51	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 18:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*08/09/22 18:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/09/22 18:51*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 18:51*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.00626**	**J p**	0.0177	0.00493	ug/L		08/09/22 17:42	08/10/22 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*100*		*60 - 144*	*08/09/22 17:42*	*08/10/22 01:19*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-4

Date Collected: 08/03/22 11:26
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-32

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**33.7**		1.00	0.270	ug/L			08/09/22 17:17	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 17:17	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 17:17	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 17:17	1
1,2-Dichloroethane	**12.4**		1.00	0.250	ug/L			08/09/22 17:17	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 17:17	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 17:17	1
Isopropyl Ether (DIPE)	**9.29**	**J**	10.0	0.700	ug/L			08/09/22 17:17	1
tert-Butyl alcohol (TBA)	**41.0**	**J**	50.0	6.90	ug/L			08/09/22 17:17	1
Ethanol	ND		100	50.0	ug/L			08/09/22 17:17	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 17:17	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 17:17	1
tert-Amyl alcohol	**235**		20.0	8.60	ug/L			08/09/22 17:17	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 17:17	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/09/22 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*08/09/22 17:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/09/22 17:17*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/09/22 17:17*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.256**		0.0938	0.0260	ug/L		08/09/22 17:42	08/10/22 14:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*97*	*p*	*60 - 144*	*08/09/22 17:42*	*08/10/22 14:09*	*5*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: RW-2

Date Collected: 08/03/22 12:18
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-33

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10.0	2.70	ug/L			08/09/22 20:02	10
Ethylbenzene	**195**		10.0	2.00	ug/L			08/09/22 20:02	10
Toluene	**45.1**		10.0	2.50	ug/L			08/09/22 20:02	10
Xylenes, Total	**947**		10.0	2.30	ug/L			08/09/22 20:02	10
1,2-Dichloroethane	ND		10.0	2.50	ug/L			08/09/22 20:02	10
Methyl-t-Butyl Ether (MTBE)	ND		50.0	8.10	ug/L			08/09/22 20:02	10
Naphthalene	**88.5**		50.0	24.0	ug/L			08/09/22 20:02	10
Isopropyl Ether (DIPE)	ND		100	7.00	ug/L			08/09/22 20:02	10
tert-Butyl alcohol (TBA)	ND	F1	500	69.0	ug/L			08/09/22 20:02	10
Ethanol	ND	F1	1000	500	ug/L			08/09/22 20:02	10
Tert-amyl-methyl ether (TAME)	ND		10.0	7.80	ug/L			08/09/22 20:02	10
Ethyl tert-Butyl Ether (ETBE)	ND		10.0	7.20	ug/L			08/09/22 20:02	10
tert-Amyl alcohol	ND		200	86.0	ug/L			08/09/22 20:02	10
3,3-Dimethyl-1-butanol	ND	F1	200	70.0	ug/L			08/09/22 20:02	10
tert-Butyl Formate	ND		200	69.0	ug/L			08/09/22 20:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 20:02*	*10*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/09/22 20:02*	*10*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*08/09/22 20:02*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/09/22 20:02*	*10*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0183	0.00507	ug/L		08/09/22 17:42	08/10/22 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*113*		*60 - 144*	*08/09/22 17:42*	*08/10/22 01:38*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: EP-4

Date Collected: 08/03/22 12:30
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-34

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**85.8**	**J**	100	27.0	ug/L			08/09/22 20:25	100
Ethylbenzene	**1010**		100	20.0	ug/L			08/09/22 20:25	100
Toluene	**1750**		100	25.0	ug/L			08/09/22 20:25	100
Xylenes, Total	**5380**		100	23.0	ug/L			08/09/22 20:25	100
1,2-Dichloroethane	ND		100	25.0	ug/L			08/09/22 20:25	100
Methyl-t-Butyl Ether (MTBE)	ND		500	81.0	ug/L			08/09/22 20:25	100
Naphthalene	**365**	**J**	500	240	ug/L			08/09/22 20:25	100
Isopropyl Ether (DIPE)	ND		1000	70.0	ug/L			08/09/22 20:25	100
tert-Butyl alcohol (TBA)	ND		5000	690	ug/L			08/09/22 20:25	100
Ethanol	ND		10000	5000	ug/L			08/09/22 20:25	100
Tert-amyl-methyl ether (TAME)	ND		100	78.0	ug/L			08/09/22 20:25	100
Ethyl tert-Butyl Ether (ETBE)	ND		100	72.0	ug/L			08/09/22 20:25	100
tert-Amyl alcohol	ND		2000	860	ug/L			08/09/22 20:25	100
3,3-Dimethyl-1-butanol	ND		2000	700	ug/L			08/09/22 20:25	100
tert-Butyl Formate	ND		2000	690	ug/L			08/09/22 20:25	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 20:25*	*100*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*08/09/22 20:25*	*100*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*08/09/22 20:25*	*100*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*08/09/22 20:25*	*100*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0165**	**J p**	0.0178	0.00496	ug/L		08/09/22 17:42	08/10/22 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*92*	*p*	*60 - 144*	*08/09/22 17:42*	*08/10/22 01:48*	*1*

Client Sample ID: EP-12
Date Collected: 08/03/22 12:25
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-35
Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6650**		2000	540	ug/L			08/09/22 20:49	2000
Ethylbenzene	**9880**		2000	400	ug/L			08/09/22 20:49	2000
Toluene	**28300**		2000	500	ug/L			08/09/22 20:49	2000
Xylenes, Total	**123000**		2000	460	ug/L			08/09/22 20:49	2000
1,2-Dichloroethane	ND		2000	500	ug/L			08/09/22 20:49	2000
Methyl-t-Butyl Ether (MTBE)	ND		10000	1620	ug/L			08/09/22 20:49	2000
Naphthalene	**33100**		10000	4800	ug/L			08/09/22 20:49	2000
Isopropyl Ether (DIPE)	ND		20000	1400	ug/L			08/09/22 20:49	2000
tert-Butyl alcohol (TBA)	ND		100000	13800	ug/L			08/09/22 20:49	2000
Ethanol	ND		200000	100000	ug/L			08/09/22 20:49	2000
Tert-amyl-methyl ether (TAME)	ND		2000	1560	ug/L			08/09/22 20:49	2000
Ethyl tert-Butyl Ether (ETBE)	ND		2000	1440	ug/L			08/09/22 20:49	2000
tert-Amyl alcohol	ND		40000	17200	ug/L			08/09/22 20:49	2000
3,3-Dimethyl-1-butanol	ND		40000	14000	ug/L			08/09/22 20:49	2000
tert-Butyl Formate	ND		40000	13800	ug/L			08/09/22 20:49	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/09/22 20:49*	*2000*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/09/22 20:49*	*2000*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/09/22 20:49*	*2000*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/09/22 20:49*	*2000*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**103**		19.4	5.38	ug/L		08/09/22 17:42	08/10/22 14:19	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 17:42*	*08/10/22 14:19*	*1000*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: EP-20

Date Collected: 08/03/22 12:35
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-36

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**14700**		250	67.5	ug/L			08/10/22 20:58	250
Ethylbenzene	**1780**		250	50.0	ug/L			08/10/22 20:58	250
Toluene	**30700**		250	62.5	ug/L			08/10/22 20:58	250
Xylenes, Total	**17500**		250	57.5	ug/L			08/10/22 20:58	250
1,2-Dichloroethane	ND		250	62.5	ug/L			08/10/22 20:58	250
Methyl-t-Butyl Ether (MTBE)	ND		1250	203	ug/L			08/10/22 20:58	250
Naphthalene	**1240**	**J**	1250	600	ug/L			08/10/22 20:58	250
Isopropyl Ether (DIPE)	ND		2500	175	ug/L			08/10/22 20:58	250
tert-Butyl alcohol (TBA)	ND		12500	1730	ug/L			08/10/22 20:58	250
Ethanol	ND		25000	12500	ug/L			08/10/22 20:58	250
Tert-amyl-methyl ether (TAME)	ND		250	195	ug/L			08/10/22 20:58	250
Ethyl tert-Butyl Ether (ETBE)	ND		250	180	ug/L			08/10/22 20:58	250
tert-Amyl alcohol	ND		5000	2150	ug/L			08/10/22 20:58	250
3,3-Dimethyl-1-butanol	ND		5000	1750	ug/L			08/10/22 20:58	250
tert-Butyl Formate	ND		5000	1730	ug/L			08/10/22 20:58	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/10/22 20:58*	*250*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/10/22 20:58*	*250*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/10/22 20:58*	*250*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/10/22 20:58*	*250*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**412**		91.0	25.3	ug/L		08/09/22 17:42	08/10/22 14:29	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 17:42*	*08/10/22 14:29*	*5000*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DUP-1

Date Collected: 08/03/22 00:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-37

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3180**		100	27.0	ug/L			08/11/22 13:57	100
Ethylbenzene	**1070**		100	20.0	ug/L			08/11/22 13:57	100
Toluene	**12000**		100	25.0	ug/L			08/11/22 13:57	100
Xylenes, Total	**5800**		100	23.0	ug/L			08/11/22 13:57	100
1,2-Dichloroethane	**55.7**	**J**	100	25.0	ug/L			08/11/22 13:57	100
Methyl-t-Butyl Ether (MTBE)	ND		500	81.0	ug/L			08/11/22 13:57	100
Naphthalene	**436**	**J**	500	240	ug/L			08/11/22 13:57	100
Isopropyl Ether (DIPE)	**72.2**	**J**	1000	70.0	ug/L			08/11/22 13:57	100
tert-Butyl alcohol (TBA)	ND		5000	690	ug/L			08/11/22 13:57	100
Ethanol	ND	F1	10000	5000	ug/L			08/11/22 13:57	100
Tert-amyl-methyl ether (TAME)	ND		100	78.0	ug/L			08/11/22 13:57	100
Ethyl tert-Butyl Ether (ETBE)	ND		100	72.0	ug/L			08/11/22 13:57	100
tert-Amyl alcohol	ND		2000	860	ug/L			08/11/22 13:57	100
3,3-Dimethyl-1-butanol	ND		2000	700	ug/L			08/11/22 13:57	100
tert-Butyl Formate	ND		2000	690	ug/L			08/11/22 13:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/11/22 13:57*	*100*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/11/22 13:57*	*100*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/11/22 13:57*	*100*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/11/22 13:57*	*100*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**19.2**		9.38	2.60	ug/L		08/09/22 17:42	08/10/22 14:39	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/09/22 17:42*	*08/10/22 14:39*	*500*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DUP-2

Date Collected: 08/03/22 00:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-38

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10.0	2.70	ug/L			08/10/22 21:45	10
Ethylbenzene	**288**		10.0	2.00	ug/L			08/10/22 21:45	10
Toluene	**102**		10.0	2.50	ug/L			08/10/22 21:45	10
Xylenes, Total	**1520**	**F1**	10.0	2.30	ug/L			08/10/22 21:45	10
1,2-Dichloroethane	ND		10.0	2.50	ug/L			08/10/22 21:45	10
Methyl-t-Butyl Ether (MTBE)	ND		50.0	8.10	ug/L			08/10/22 21:45	10
Naphthalene	**110**		50.0	24.0	ug/L			08/10/22 21:45	10
Isopropyl Ether (DIPE)	ND		100	7.00	ug/L			08/10/22 21:45	10
tert-Butyl alcohol (TBA)	ND	F1	500	69.0	ug/L			08/10/22 21:45	10
Ethanol	ND		1000	500	ug/L			08/10/22 21:45	10
Tert-amyl-methyl ether (TAME)	ND		10.0	7.80	ug/L			08/10/22 21:45	10
Ethyl tert-Butyl Ether (ETBE)	ND		10.0	7.20	ug/L			08/10/22 21:45	10
tert-Amyl alcohol	ND		200	86.0	ug/L			08/10/22 21:45	10
3,3-Dimethyl-1-butanol	ND	F1	200	70.0	ug/L			08/10/22 21:45	10
tert-Butyl Formate	ND	F1	200	69.0	ug/L			08/10/22 21:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/10/22 21:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/10/22 21:45*	*10*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*08/10/22 21:45*	*10*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/10/22 21:45*	*10*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0298**		0.0183	0.00509	ug/L		08/09/22 17:42	08/10/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*127*		*60 - 144*	*08/09/22 17:42*	*08/10/22 02:27*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: FB

Date Collected: 08/03/22 12:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-39

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/08/22 16:22	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/08/22 16:22	1
Toluene	ND		1.00	0.250	ug/L			08/08/22 16:22	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/08/22 16:22	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/08/22 16:22	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/08/22 16:22	1
Naphthalene	ND		5.00	2.40	ug/L			08/08/22 16:22	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/08/22 16:22	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/08/22 16:22	1
Ethanol	ND		100	50.0	ug/L			08/08/22 16:22	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/08/22 16:22	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/08/22 16:22	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/08/22 16:22	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/08/22 16:22	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/08/22 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/08/22 16:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*08/08/22 16:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/08/22 16:22*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/08/22 16:22*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.00591**	**J p**	0.0190	0.00529	ug/L		08/09/22 17:42	08/10/22 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*125*		*60 - 144*	*08/09/22 17:42*	*08/10/22 02:37*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: GAC

Date Collected: 08/03/22 12:45
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-40

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/08/22 18:01	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/08/22 18:01	1
Toluene	ND		1.00	0.250	ug/L			08/08/22 18:01	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/08/22 18:01	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/08/22 18:01	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/08/22 18:01	1
Naphthalene	ND		5.00	2.40	ug/L			08/08/22 18:01	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/08/22 18:01	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/08/22 18:01	1
Ethanol	ND		100	50.0	ug/L			08/08/22 18:01	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/08/22 18:01	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/08/22 18:01	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/08/22 18:01	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/08/22 18:01	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/08/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/08/22 18:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*08/08/22 18:01*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/08/22 18:01*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*08/08/22 18:01*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.00889**	**J**	0.0185	0.00513	ug/L		08/09/22 17:42	08/10/22 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*86*		*60 - 144*	*08/09/22 17:42*	*08/10/22 02:47*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: SW-1

Date Collected: 08/03/22 11:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-41

Matrix: Surface Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 15:52	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 15:52	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 15:52	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 15:52	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 15:52	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 15:52	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 15:52	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 15:52	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 15:52	1
Ethanol	ND		100	50.0	ug/L			08/10/22 15:52	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 15:52	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 15:52	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 15:52	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 15:52	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/10/22 15:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/10/22 15:52*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/10/22 15:52*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0184	0.00510	ug/L		08/10/22 18:01	08/11/22 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*96*		*60 - 144*	*08/10/22 18:01*	*08/11/22 01:44*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: SW-2

Date Collected: 08/03/22 10:50
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-42

Matrix: Surface Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.546**	**J**	1.00	0.270	ug/L			08/10/22 16:16	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 16:16	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 16:16	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 16:16	1
1,2-Dichloroethane	**0.303**	**J**	1.00	0.250	ug/L			08/10/22 16:16	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 16:16	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 16:16	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 16:16	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 16:16	1
Ethanol	ND		100	50.0	ug/L			08/10/22 16:16	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 16:16	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 16:16	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 16:16	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 16:16	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*08/10/22 16:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/10/22 16:16*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/10/22 16:16*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.181	0.0503	ug/L		08/10/22 18:01	08/11/22 12:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*0*	*D*	*60 - 144*	*08/10/22 18:01*	*08/11/22 12:22*	*10*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: SW-3

Date Collected: 08/03/22 10:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-43

Matrix: Surface Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 16:39	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 16:39	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 16:39	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 16:39	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 16:39	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 16:39	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 16:39	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 16:39	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 16:39	1
Ethanol	ND		100	50.0	ug/L			08/10/22 16:39	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 16:39	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 16:39	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 16:39	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 16:39	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/10/22 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/10/22 16:39*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/10/22 16:39*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/10/22 16:39*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		08/10/22 18:01	08/11/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*94*		*60 - 144*	*08/10/22 18:01*	*08/11/22 02:04*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: SW-4

Date Collected: 08/03/22 11:10
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-44

Matrix: Surface Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 17:03	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 17:03	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 17:03	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 17:03	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 17:03	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 17:03	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 17:03	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 17:03	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 17:03	1
Ethanol	ND		100	50.0	ug/L			08/10/22 17:03	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 17:03	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 17:03	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 17:03	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 17:03	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/10/22 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*08/10/22 17:03*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/10/22 17:03*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/10/22 17:03*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	**0.0503**	**p**	0.0177	0.00492	ug/L		08/10/22 18:01	08/11/22 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*89*		*60 - 144*	*08/10/22 18:01*	*08/11/22 02:13*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: TB-1

Date Collected: 08/03/22 08:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-45

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 13:55	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 13:55	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 13:55	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 13:55	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 13:55	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 13:55	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 13:55	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 13:55	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 13:55	1
Ethanol	ND		100	50.0	ug/L			08/10/22 13:55	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 13:55	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 13:55	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 13:55	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 13:55	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/10/22 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*08/10/22 13:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*08/10/22 13:55*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/10/22 13:55*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: TB-2

Date Collected: 08/03/22 08:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-46

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 14:18	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 14:18	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 14:18	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 14:18	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 14:18	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 14:18	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 14:18	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 14:18	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 14:18	1
Ethanol	ND		100	50.0	ug/L			08/10/22 14:18	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 14:18	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 14:18	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 14:18	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 14:18	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/10/22 14:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/10/22 14:18*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*08/10/22 14:18*	*1*

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-734636/9
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/08/22 12:25	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/08/22 12:25	1
Toluene	ND		1.00	0.250	ug/L			08/08/22 12:25	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/08/22 12:25	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/08/22 12:25	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/08/22 12:25	1
Naphthalene	ND		5.00	2.40	ug/L			08/08/22 12:25	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/08/22 12:25	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/08/22 12:25	1
Ethanol	ND		100	50.0	ug/L			08/08/22 12:25	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/08/22 12:25	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/08/22 12:25	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/08/22 12:25	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/08/22 12:25	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/08/22 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/08/22 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*08/08/22 12:25*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/08/22 12:25*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/08/22 12:25*	*1*

Lab Sample ID: LCS 680-734636/5
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	48.58		ug/L		97	70 - 130		
Ethylbenzene			50.0	49.93		ug/L		100	70 - 130		
Toluene			50.0	50.99		ug/L		102	70 - 130		
Xylenes, Total			100	98.44		ug/L		98	70 - 130		
1,2-Dichloroethane			50.0	51.27		ug/L		103	70 - 130		
Methyl-t-Butyl Ether (MTBE)			50.0	47.45		ug/L		95	70 - 130		
Naphthalene			50.0	40.93		ug/L		82	57 - 149		
tert-Butyl alcohol (TBA)			500	420.7		ug/L		84	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-734636/6
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	48.69		ug/L		97	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-734636/6
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			50.0	50.45		ug/L		101	70 - 130	1	20
Toluene			50.0	51.62		ug/L		103	70 - 130	1	30
Xylenes, Total			100	98.42		ug/L		98	70 - 130	0	30
1,2-Dichloroethane			50.0	51.00		ug/L		102	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)			50.0	46.93		ug/L		94	70 - 130	1	30
Naphthalene			50.0	40.90		ug/L		82	57 - 149	0	30
tert-Butyl alcohol (TBA)			500	420.1		ug/L		84	57 - 120	0	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: 680-218944-I-1 MS
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		2500	2559		ug/L		102	70 - 130
Ethylbenzene	ND		2500	2556		ug/L		102	70 - 130
Toluene	1800		2500	4394		ug/L		104	70 - 130
Xylenes, Total	ND		5000	5039		ug/L		101	70 - 130
1,2-Dichloroethane	ND		2500	2582		ug/L		103	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		2500	2405		ug/L		96	70 - 130
Naphthalene	ND		2500	1988		ug/L		80	57 - 149
tert-Butyl alcohol (TBA)	ND		25000	24530		ug/L		98	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*

Lab Sample ID: 680-218944-I-1 MSD
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2500	2548		ug/L		102	70 - 130	0	30
Ethylbenzene	ND		2500	2573		ug/L		103	70 - 130	1	20
Toluene	1800		2500	4395		ug/L		104	70 - 130	0	30
Xylenes, Total	ND		5000	5000		ug/L		100	70 - 130	1	30
1,2-Dichloroethane	ND		2500	2602		ug/L		104	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	ND		2500	2414		ug/L		97	70 - 130	0	30
Naphthalene	ND		2500	2051		ug/L		82	57 - 149	3	30
tert-Butyl alcohol (TBA)	ND		25000	24410		ug/L		98	57 - 120	0	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-218944-I-1 MSD
Matrix: Water
Analysis Batch: 734636

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*

Lab Sample ID: MB 680-734870/9
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 13:12	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 13:12	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 13:12	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 13:12	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 13:12	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 13:12	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 13:12	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 13:12	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 13:12	1
Ethanol	ND		100	50.0	ug/L			08/09/22 13:12	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 13:12	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 13:12	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 13:12	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 13:12	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/09/22 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*08/09/22 13:12*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/09/22 13:12*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/09/22 13:12*	*1*

Lab Sample ID: LCS 680-734870/5
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	49.41		ug/L		99	70 - 130
Ethylbenzene	50.0	51.17		ug/L		102	70 - 130
Toluene	50.0	50.35		ug/L		101	70 - 130
Xylenes, Total	100	102.5		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	50.44		ug/L		101	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	51.50		ug/L		103	70 - 130
Naphthalene	50.0	41.68		ug/L		83	57 - 149
tert-Butyl alcohol (TBA)	500	628.0	*+	ug/L		126	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-734870/5
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-734870/6
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	48.79		ug/L		98	70 - 130	1	30
Ethylbenzene			50.0	50.48		ug/L		101	70 - 130	1	20
Toluene			50.0	50.29		ug/L		101	70 - 130	0	30
Xylenes, Total			100	101.5		ug/L		101	70 - 130	1	30
1,2-Dichloroethane			50.0	50.54		ug/L		101	70 - 130	0	50
Methyl-t-Butyl Ether (MTBE)			50.0	52.04		ug/L		104	70 - 130	1	30
Naphthalene			50.0	42.77		ug/L		86	57 - 149	3	30
tert-Butyl alcohol (TBA)			500	632.9	*+	ug/L		127	57 - 120	1	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 680-219294-C-28 MS
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	224		500	725.6		ug/L		100	70 - 130
Ethylbenzene	415		500	956.2		ug/L		108	70 - 130
Toluene	591		500	1146		ug/L		111	70 - 130
Xylenes, Total	1440		1000	2581		ug/L		114	70 - 130
1,2-Dichloroethane	5.00	J	500	481.8		ug/L		95	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		500	494.4		ug/L		99	70 - 130
Naphthalene	159		500	553.9		ug/L		79	57 - 149
Isopropyl Ether (DIPE)	ND		500	429.0		ug/L		86	70 - 130
tert-Butyl alcohol (TBA)	ND	F1 *+	5000	5130		ug/L		103	57 - 120
Ethanol	ND	F1	20000	23950		ug/L		120	55 - 120
Tert-amyl-methyl ether (TAME)	ND		500	525.4		ug/L		105	50 - 149
Ethyl tert-Butyl Ether (ETBE)	ND		500	478.0		ug/L		96	70 - 130
tert-Amyl alcohol	ND	F2 F1	5000	4790		ug/L		96	70 - 130
3,3-Dimethyl-1-butanol	ND		4000	3682		ug/L		92	70 - 130
tert-Butyl Formate	ND	F1	4000	1953	F1	ug/L		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-219294-C-28 MS
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 680-219294-C-28 MSD
Matrix: Water
Analysis Batch: 734870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	224		500	715.7		ug/L		98	70 - 130	1	30
Ethylbenzene	415		500	956.6		ug/L		108	70 - 130	0	20
Toluene	591		500	1137		ug/L		109	70 - 130	1	30
Xylenes, Total	1440		1000	2588		ug/L		115	70 - 130	0	30
1,2-Dichloroethane	5.00	J	500	502.3		ug/L		99	70 - 130	4	50
Methyl-t-Butyl Ether (MTBE)	ND		500	508.0		ug/L		102	70 - 130	3	30
Naphthalene	159		500	637.3		ug/L		96	57 - 149	14	30
Isopropyl Ether (DIPE)	ND		500	426.0		ug/L		85	70 - 130	1	30
tert-Butyl alcohol (TBA)	ND	F1 *+	5000	7095	F1	ug/L		142	57 - 120	32	40
Ethanol	ND	F1	20000	29240	F1	ug/L		146	55 - 120	20	30
Tert-amyl-methyl ether (TAME)	ND		500	547.2		ug/L		109	50 - 149	4	30
Ethyl tert-Butyl Ether (ETBE)	ND		500	485.0		ug/L		97	70 - 130	1	30
tert-Amyl alcohol	ND	F2 F1	5000	6548	F1 F2	ug/L		131	70 - 130	31	30
3,3-Dimethyl-1-butanol	ND		4000	4969		ug/L		124	70 - 130	30	30
tert-Butyl Formate	ND	F1	4000	2015	F1	ug/L		50	70 - 130	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-734879/9
Matrix: Water
Analysis Batch: 734879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/09/22 13:22	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/09/22 13:22	1
Toluene	ND		1.00	0.250	ug/L			08/09/22 13:22	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/09/22 13:22	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/09/22 13:22	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/09/22 13:22	1
Naphthalene	ND		5.00	2.40	ug/L			08/09/22 13:22	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/09/22 13:22	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/09/22 13:22	1
Ethanol	ND		100	50.0	ug/L			08/09/22 13:22	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/09/22 13:22	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/09/22 13:22	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/09/22 13:22	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-734879/9
Matrix: Water
Analysis Batch: 734879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/09/22 13:22	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/09/22 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/09/22 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/09/22 13:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/09/22 13:22*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/09/22 13:22*	*1*

Lab Sample ID: LCS 680-734879/5
Matrix: Water
Analysis Batch: 734879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	49.20		ug/L		98	70 - 130		
Ethylbenzene			50.0	53.35		ug/L		107	70 - 130		
Toluene			50.0	52.77		ug/L		106	70 - 130		
Xylenes, Total			100	105.7		ug/L		106	70 - 130		
1,2-Dichloroethane			50.0	48.03		ug/L		96	70 - 130		
Methyl-t-Butyl Ether (MTBE)			50.0	46.31		ug/L		93	70 - 130		
Naphthalene			50.0	50.61		ug/L		101	57 - 149		
tert-Butyl alcohol (TBA)			500	474.6		ug/L		95	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-734879/6
Matrix: Water
Analysis Batch: 734879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	49.74		ug/L		99	70 - 130	1	30
Ethylbenzene			50.0	53.08		ug/L		106	70 - 130	1	20
Toluene			50.0	53.94		ug/L		108	70 - 130	2	30
Xylenes, Total			100	104.9		ug/L		105	70 - 130	1	30
1,2-Dichloroethane			50.0	48.12		ug/L		96	70 - 130	0	50
Methyl-t-Butyl Ether (MTBE)			50.0	46.86		ug/L		94	70 - 130	1	30
Naphthalene			50.0	52.32		ug/L		105	57 - 149	3	30
tert-Butyl alcohol (TBA)			500	489.9		ug/L		98	57 - 120	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: 680-219295-33 MS
Matrix: Ground Water
Analysis Batch: 734879

Client Sample ID: RW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		500	489.1		ug/L		98	70 - 130
Ethylbenzene	195		500	719.2		ug/L		105	70 - 130
Toluene	45.1		500	586.2		ug/L		108	70 - 130
Xylenes, Total	947		1000	1941		ug/L		99	70 - 130
1,2-Dichloroethane	ND		500	481.3		ug/L		96	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		500	448.3		ug/L		90	70 - 130
Naphthalene	88.5		500	531.2		ug/L		89	57 - 149
Isopropyl Ether (DIPE)	ND		500	580.0		ug/L		116	70 - 130
tert-Butyl alcohol (TBA)	ND	F1	5000	5953		ug/L		119	57 - 120
Ethanol	ND	F1	20000	27290	F1	ug/L		136	55 - 120
Tert-amyl-methyl ether (TAME)	ND		500	521.0		ug/L		104	50 - 149
Ethyl tert-Butyl Ether (ETBE)	ND		500	495.2		ug/L		99	70 - 130
tert-Amyl alcohol	ND		5000	6168		ug/L		123	70 - 130
3,3-Dimethyl-1-butanol	ND	F1	4000	5221	F1	ug/L		131	70 - 130
tert-Butyl Formate	ND		4000	3024		ug/L		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 680-219295-33 MSD
Matrix: Ground Water
Analysis Batch: 734879

Client Sample ID: RW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		500	483.2		ug/L		97	70 - 130	1	30
Ethylbenzene	195		500	701.9		ug/L		101	70 - 130	2	20
Toluene	45.1		500	578.8		ug/L		107	70 - 130	1	30
Xylenes, Total	947		1000	1927		ug/L		98	70 - 130	1	30
1,2-Dichloroethane	ND		500	485.8		ug/L		97	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	ND		500	451.7		ug/L		90	70 - 130	1	30
Naphthalene	88.5		500	599.1		ug/L		102	57 - 149	12	30
Isopropyl Ether (DIPE)	ND		500	587.6		ug/L		118	70 - 130	1	30
tert-Butyl alcohol (TBA)	ND	F1	5000	6214	F1	ug/L		124	57 - 120	4	40
Ethanol	ND	F1	20000	28500	F1	ug/L		143	55 - 120	4	30
Tert-amyl-methyl ether (TAME)	ND		500	530.3		ug/L		106	50 - 149	2	30
Ethyl tert-Butyl Ether (ETBE)	ND		500	505.0		ug/L		101	70 - 130	2	30
tert-Amyl alcohol	ND		5000	6392		ug/L		128	70 - 130	4	30
3,3-Dimethyl-1-butanol	ND	F1	4000	5432	F1	ug/L		136	70 - 130	4	30
tert-Butyl Formate	ND		4000	2987		ug/L		75	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-735070/9
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 12:51	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 12:51	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 12:51	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 12:51	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 12:51	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 12:51	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 12:51	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 12:51	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 12:51	1
Ethanol	ND		100	50.0	ug/L			08/10/22 12:51	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 12:51	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 12:51	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 12:51	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 12:51	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*08/10/22 12:51*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/10/22 12:51*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*08/10/22 12:51*	*1*

Lab Sample ID: LCS 680-735070/5
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	48.44		ug/L		97	70 - 130		
Ethylbenzene			50.0	50.24		ug/L		100	70 - 130		
Toluene			50.0	51.62		ug/L		103	70 - 130		
Xylenes, Total			100	98.43		ug/L		98	70 - 130		
1,2-Dichloroethane			50.0	50.97		ug/L		102	70 - 130		
Methyl-t-Butyl Ether (MTBE)			50.0	47.66		ug/L		95	70 - 130		
Naphthalene			50.0	40.39		ug/L		81	57 - 149		
tert-Butyl alcohol (TBA)			500	463.9		ug/L		93	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-735070/6
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	48.50		ug/L		97	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-735070/6
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			50.0	48.81		ug/L		98	70 - 130	3	20
Toluene			50.0	51.10		ug/L		102	70 - 130	1	30
Xylenes, Total			100	96.99		ug/L		97	70 - 130	1	30
1,2-Dichloroethane			50.0	50.63		ug/L		101	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)			50.0	47.77		ug/L		96	70 - 130	0	30
Naphthalene			50.0	40.42		ug/L		81	57 - 149	0	30
tert-Butyl alcohol (TBA)			500	464.5		ug/L		93	57 - 120	0	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 680-219294-C-25 MS
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	381		500	802.6		ug/L		84	70 - 130
Ethylbenzene	ND		500	490.5		ug/L		98	70 - 130
Toluene	ND		500	509.1		ug/L		102	70 - 130
Xylenes, Total	ND		1000	965.7		ug/L		97	70 - 130
1,2-Dichloroethane	21.6		500	523.5		ug/L		100	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		500	476.0		ug/L		95	70 - 130
Naphthalene	ND		500	472.7		ug/L		95	57 - 149
Isopropyl Ether (DIPE)	ND		500	386.7		ug/L		77	70 - 130
tert-Butyl alcohol (TBA)	ND	F1	5000	5959		ug/L		119	57 - 120
Ethanol	ND		20000	21140		ug/L		106	55 - 120
Tert-amyl-methyl ether (TAME)	ND		500	564.5		ug/L		113	50 - 149
Ethyl tert-Butyl Ether (ETBE)	ND		500	520.6		ug/L		104	70 - 130
tert-Amyl alcohol	1430		5000	7001		ug/L		111	70 - 130
3,3-Dimethyl-1-butanol	ND		4000	4706		ug/L		118	70 - 130
tert-Butyl Formate	ND		4000	3013		ug/L		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 680-219294-C-25 MSD
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	381		500	810.2		ug/L		86	70 - 130	1	30
Ethylbenzene	ND		500	492.6		ug/L		99	70 - 130	0	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-219294-C-25 MSD
Matrix: Water
Analysis Batch: 735070

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	ND		500	512.8		ug/L		103	70 - 130	1	30
Xylenes, Total	ND		1000	971.5		ug/L		97	70 - 130	1	30
1,2-Dichloroethane	21.6		500	531.8		ug/L		102	70 - 130	2	50
Methyl-t-Butyl Ether (MTBE)	ND		500	484.9		ug/L		97	70 - 130	2	30
Naphthalene	ND		500	464.1		ug/L		93	57 - 149	2	30
Isopropyl Ether (DIPE)	ND		500	390.9		ug/L		78	70 - 130	1	30
tert-Butyl alcohol (TBA)	ND	F1	5000	6343	F1	ug/L		127	57 - 120	6	40
Ethanol	ND		20000	21840		ug/L		109	55 - 120	3	30
Tert-amyl-methyl ether (TAME)	ND		500	590.1		ug/L		118	50 - 149	4	30
Ethyl tert-Butyl Ether (ETBE)	ND		500	525.7		ug/L		105	70 - 130	1	30
tert-Amyl alcohol	1430		5000	7760		ug/L		127	70 - 130	10	30
3,3-Dimethyl-1-butanol	ND		4000	5109		ug/L		128	70 - 130	8	30
tert-Butyl Formate	ND		4000	3039		ug/L		76	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-735090/9
Matrix: Water
Analysis Batch: 735090

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/10/22 13:32	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/10/22 13:32	1
Toluene	ND		1.00	0.250	ug/L			08/10/22 13:32	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/10/22 13:32	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/10/22 13:32	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/10/22 13:32	1
Naphthalene	ND		5.00	2.40	ug/L			08/10/22 13:32	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/10/22 13:32	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/10/22 13:32	1
Ethanol	ND		100	50.0	ug/L			08/10/22 13:32	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/10/22 13:32	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/10/22 13:32	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/10/22 13:32	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/10/22 13:32	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/10/22 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/10/22 13:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*08/10/22 13:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/10/22 13:32*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*08/10/22 13:32*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-735090/5
Matrix: Water
Analysis Batch: 735090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	47.85		ug/L		96	70 - 130		
Ethylbenzene			50.0	53.33		ug/L		107	70 - 130		
Toluene			50.0	53.46		ug/L		107	70 - 130		
Xylenes, Total			100	105.1		ug/L		105	70 - 130		
1,2-Dichloroethane			50.0	46.58		ug/L		93	70 - 130		
Methyl-t-Butyl Ether (MTBE)			50.0	44.93		ug/L		90	70 - 130		
Naphthalene			50.0	54.65		ug/L		109	57 - 149		
tert-Butyl alcohol (TBA)			500	511.2		ug/L		102	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-735090/6
Matrix: Water
Analysis Batch: 735090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	44.25		ug/L		88	70 - 130	8	30
Ethylbenzene			50.0	50.12		ug/L		100	70 - 130	6	20
Toluene			50.0	49.19		ug/L		98	70 - 130	8	30
Xylenes, Total			100	97.33		ug/L		97	70 - 130	8	30
1,2-Dichloroethane			50.0	42.94		ug/L		86	70 - 130	8	50
Methyl-t-Butyl Ether (MTBE)			50.0	42.57		ug/L		85	70 - 130	5	30
Naphthalene			50.0	52.84		ug/L		106	57 - 149	3	30
tert-Butyl alcohol (TBA)			500	462.3		ug/L		92	57 - 120	10	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*

Lab Sample ID: 680-219295-38 MS
Matrix: Ground Water
Analysis Batch: 735090

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		500	489.9		ug/L		98	70 - 130		
Ethylbenzene	288		500	731.9		ug/L		89	70 - 130		
Toluene	102		500	572.7		ug/L		94	70 - 130		
Xylenes, Total	1520	F1	1000	2029	F1	ug/L		51	70 - 130		
1,2-Dichloroethane	ND		500	479.4		ug/L		96	70 - 130		
Methyl-t-Butyl Ether (MTBE)	ND		500	449.1		ug/L		90	70 - 130		
Naphthalene	110		500	562.8		ug/L		91	57 - 149		
Isopropyl Ether (DIPE)	ND		500	577.6		ug/L		116	70 - 130		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-219295-38 MS
Matrix: Ground Water
Analysis Batch: 735090

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butyl alcohol (TBA)	ND	F1	5000	6080	F1	ug/L		122	57 - 120
Ethanol	ND		20000	13940		ug/L		70	55 - 120
Tert-amyl-methyl ether (TAME)	ND		500	520.0		ug/L		104	50 - 149
Ethyl tert-Butyl Ether (ETBE)	ND		500	489.9		ug/L		98	70 - 130
tert-Amyl alcohol	ND		5000	6195		ug/L		124	70 - 130
3,3-Dimethyl-1-butanol	ND	F1	4000	5522	F1	ug/L		138	70 - 130
tert-Butyl Formate	ND	F1	4000	2743	F1	ug/L		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: 680-219295-38 MSD
Matrix: Ground Water
Analysis Batch: 735090

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		500	491.7		ug/L		98	70 - 130	0	30
Ethylbenzene	288		500	746.7		ug/L		92	70 - 130	2	20
Toluene	102		500	597.7		ug/L		99	70 - 130	4	30
Xylenes, Total	1520	F1	1000	2052	F1	ug/L		53	70 - 130	1	30
1,2-Dichloroethane	ND		500	487.3		ug/L		97	70 - 130	2	50
Methyl-t-Butyl Ether (MTBE)	ND		500	473.6		ug/L		95	70 - 130	5	30
Naphthalene	110		500	596.9		ug/L		97	57 - 149	6	30
Isopropyl Ether (DIPE)	ND		500	595.7		ug/L		119	70 - 130	3	30
tert-Butyl alcohol (TBA)	ND	F1	5000	6883	F1	ug/L		138	57 - 120	12	40
Ethanol	ND		20000	14490		ug/L		72	55 - 120	4	30
Tert-amyl-methyl ether (TAME)	ND		500	533.2		ug/L		107	50 - 149	3	30
Ethyl tert-Butyl Ether (ETBE)	ND		500	517.5		ug/L		104	70 - 130	5	30
tert-Amyl alcohol	ND		5000	6505		ug/L		130	70 - 130	5	30
3,3-Dimethyl-1-butanol	ND	F1	4000	5811	F1	ug/L		145	70 - 130	5	30
tert-Butyl Formate	ND	F1	4000	2841		ug/L		71	70 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-735318/9
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/11/22 14:19	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/11/22 14:19	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-735318/9
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.00	0.250	ug/L			08/11/22 14:19	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/11/22 14:19	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/11/22 14:19	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/11/22 14:19	1
Naphthalene	ND		5.00	2.40	ug/L			08/11/22 14:19	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/11/22 14:19	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/11/22 14:19	1
Ethanol	ND		100	50.0	ug/L			08/11/22 14:19	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/11/22 14:19	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/11/22 14:19	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/11/22 14:19	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/11/22 14:19	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/11/22 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*08/11/22 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*08/11/22 14:19*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/11/22 14:19*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/11/22 14:19*	*1*

Lab Sample ID: LCS 680-735318/5
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	48.28		ug/L		97	70 - 130		
Ethylbenzene			50.0	51.79		ug/L		104	70 - 130		
Toluene			50.0	50.48		ug/L		101	70 - 130		
Xylenes, Total			100	103.8		ug/L		104	70 - 130		
1,2-Dichloroethane			50.0	48.04		ug/L		96	70 - 130		
Methyl-t-Butyl Ether (MTBE)			50.0	49.47		ug/L		99	70 - 130		
Naphthalene			50.0	41.67		ug/L		83	57 - 149		
tert-Butyl alcohol (TBA)			500	571.6		ug/L		114	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-735318/6
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	47.21		ug/L		94	70 - 130	2	30
Ethylbenzene			50.0	50.07		ug/L		100	70 - 130	3	20
Toluene			50.0	49.14		ug/L		98	70 - 130	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-735318/6
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	100.3		ug/L		100	70 - 130	3	30
1,2-Dichloroethane			50.0	47.26		ug/L		95	70 - 130	2	50
Methyl-t-Butyl Ether (MTBE)			50.0	48.57		ug/L		97	70 - 130	2	30
Naphthalene			50.0	41.59		ug/L		83	57 - 149	0	30
tert-Butyl alcohol (TBA)			500	550.5		ug/L		110	57 - 120	4	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: 680-219395-E-7 MS
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		12500	12430		ug/L		99	70 - 130
Ethylbenzene	ND		12500	12870		ug/L		103	70 - 130
Toluene	ND		12500	12250		ug/L		98	70 - 130
Xylenes, Total	ND		25000	25340		ug/L		101	70 - 130
1,2-Dichloroethane	ND		12500	11980		ug/L		96	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		12500	11710		ug/L		94	70 - 130
Naphthalene	ND		12500	7614		ug/L		61	57 - 149
tert-Butyl alcohol (TBA)	ND	F2	125000	70910		ug/L		57	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: 680-219395-E-7 MSD
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		12500	12280		ug/L		98	70 - 130	1	30
Ethylbenzene	ND		12500	12750		ug/L		102	70 - 130	1	20
Toluene	ND		12500	12300		ug/L		98	70 - 130	0	30
Xylenes, Total	ND		25000	25210		ug/L		101	70 - 130	1	30
1,2-Dichloroethane	ND		12500	12100		ug/L		97	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	ND		12500	12550		ug/L		100	70 - 130	7	30
Naphthalene	ND		12500	9535		ug/L		76	57 - 149	22	30
tert-Butyl alcohol (TBA)	ND	F2	125000	110700	F2	ug/L		89	57 - 120	44	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-219395-E-7 MSD
Matrix: Water
Analysis Batch: 735318

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-735327/9
Matrix: Water
Analysis Batch: 735327

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/11/22 13:10	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/11/22 13:10	1
Toluene	ND		1.00	0.250	ug/L			08/11/22 13:10	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/11/22 13:10	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/11/22 13:10	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/11/22 13:10	1
Naphthalene	ND		5.00	2.40	ug/L			08/11/22 13:10	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/11/22 13:10	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/11/22 13:10	1
Ethanol	ND		100	50.0	ug/L			08/11/22 13:10	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/11/22 13:10	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/11/22 13:10	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/11/22 13:10	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/11/22 13:10	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/11/22 13:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/11/22 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*08/11/22 13:10*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*08/11/22 13:10*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/11/22 13:10*	*1*

Lab Sample ID: LCS 680-735327/5
Matrix: Water
Analysis Batch: 735327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	49.30		ug/L		99	70 - 130
Ethylbenzene	50.0	53.66		ug/L		107	70 - 130
Toluene	50.0	53.83		ug/L		108	70 - 130
Xylenes, Total	100	105.1		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	48.38		ug/L		97	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	45.90		ug/L		92	70 - 130
Naphthalene	50.0	51.56		ug/L		103	57 - 149
tert-Butyl alcohol (TBA)	500	475.8		ug/L		95	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-735327/5
Matrix: Water
Analysis Batch: 735327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-735327/6
Matrix: Water
Analysis Batch: 735327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	49.31		ug/L		99	70 - 130	0	30
Ethylbenzene			50.0	53.64		ug/L		107	70 - 130	0	20
Toluene			50.0	55.17		ug/L		110	70 - 130	2	30
Xylenes, Total			100	105.5		ug/L		106	70 - 130	0	30
1,2-Dichloroethane			50.0	48.33		ug/L		97	70 - 130	0	50
Methyl-t-Butyl Ether (MTBE)			50.0	46.81		ug/L		94	70 - 130	2	30
Naphthalene			50.0	55.62		ug/L		111	57 - 149	8	30
tert-Butyl alcohol (TBA)			500	518.1		ug/L		104	57 - 120	9	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 680-219295-37 MS
Matrix: Ground Water
Analysis Batch: 735327

Client Sample ID: DUP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	3180		5000	8260		ug/L		102	70 - 130
Ethylbenzene	1070		5000	6642		ug/L		111	70 - 130
Toluene	12000		5000	17830		ug/L		117	70 - 130
Xylenes, Total	5800		10000	17020		ug/L		112	70 - 130
1,2-Dichloroethane	55.7	J	5000	4809		ug/L		95	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		5000	4627		ug/L		93	70 - 130
Naphthalene	436	J	5000	4881		ug/L		89	57 - 149
Isopropyl Ether (DIPE)	72.2	J	5000	5889		ug/L		116	70 - 130
tert-Butyl alcohol (TBA)	ND		50000	50180		ug/L		100	57 - 120
Ethanol	ND	F1	200000	259800	F1	ug/L		130	55 - 120
Tert-amyl-methyl ether (TAME)	ND		5000	5197		ug/L		104	50 - 149
Ethyl tert-Butyl Ether (ETBE)	ND		5000	4933		ug/L		99	70 - 130
tert-Amyl alcohol	ND		50000	55870		ug/L		112	70 - 130
3,3-Dimethyl-1-butanol	ND		40000	47940		ug/L		120	70 - 130
tert-Butyl Formate	ND		40000	39730		ug/L		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*112*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-219295-37 MS
Matrix: Ground Water
Analysis Batch: 735327

Client Sample ID: DUP-1
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: 680-219295-37 MSD
Matrix: Ground Water
Analysis Batch: 735327

Client Sample ID: DUP-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	3180		5000	8358		ug/L		103	70 - 130	1	30
Ethylbenzene	1070		5000	6640		ug/L		111	70 - 130	0	20
Toluene	12000		5000	18090		ug/L		122	70 - 130	1	30
Xylenes, Total	5800		10000	17010		ug/L		112	70 - 130	0	30
1,2-Dichloroethane	55.7	J	5000	4981		ug/L		99	70 - 130	4	50
Methyl-t-Butyl Ether (MTBE)	ND		5000	4560		ug/L		91	70 - 130	1	30
Naphthalene	436	J	5000	5333		ug/L		98	57 - 149	9	30
Isopropyl Ether (DIPE)	72.2	J	5000	5944		ug/L		117	70 - 130	1	30
tert-Butyl alcohol (TBA)	ND		50000	50560		ug/L		101	57 - 120	1	40
Ethanol	ND	F1	200000	251400	F1	ug/L		126	55 - 120	3	30
Tert-amyl-methyl ether (TAME)	ND		5000	5176		ug/L		104	50 - 149	0	30
Ethyl tert-Butyl Ether (ETBE)	ND		5000	4974		ug/L		99	70 - 130	1	30
tert-Amyl alcohol	ND		50000	55220		ug/L		110	70 - 130	1	30
3,3-Dimethyl-1-butanol	ND		40000	48030		ug/L		120	70 - 130	0	30
tert-Butyl Formate	ND		40000	40470		ug/L		101	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-735486/9
Matrix: Water
Analysis Batch: 735486

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			08/12/22 12:47	1
Ethylbenzene	ND		1.00	0.200	ug/L			08/12/22 12:47	1
Toluene	ND		1.00	0.250	ug/L			08/12/22 12:47	1
Xylenes, Total	ND		1.00	0.230	ug/L			08/12/22 12:47	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			08/12/22 12:47	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			08/12/22 12:47	1
Naphthalene	ND		5.00	2.40	ug/L			08/12/22 12:47	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			08/12/22 12:47	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			08/12/22 12:47	1
Ethanol	ND		100	50.0	ug/L			08/12/22 12:47	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			08/12/22 12:47	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			08/12/22 12:47	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			08/12/22 12:47	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			08/12/22 12:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-735486/9
Matrix: Water
Analysis Batch: 735486

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl Formate	ND		20.0	6.90	ug/L			08/12/22 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/12/22 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*08/12/22 12:47*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/12/22 12:47*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*08/12/22 12:47*	*1*

Lab Sample ID: LCS 680-735486/5
Matrix: Water
Analysis Batch: 735486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	48.42		ug/L		97	70 - 130		
Ethylbenzene			50.0	49.72		ug/L		99	70 - 130		
Toluene			50.0	50.78		ug/L		102	70 - 130		
Xylenes, Total			100	97.94		ug/L		98	70 - 130		
1,2-Dichloroethane			50.0	50.41		ug/L		101	70 - 130		
Methyl-t-Butyl Ether (MTBE)			50.0	46.71		ug/L		93	70 - 130		
Naphthalene			50.0	38.57		ug/L		77	57 - 149		
tert-Butyl alcohol (TBA)			500	427.1		ug/L		85	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-735486/6
Matrix: Water
Analysis Batch: 735486

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			50.0	48.43		ug/L		97	70 - 130	0	30
Ethylbenzene			50.0	50.47		ug/L		101	70 - 130	1	20
Toluene			50.0	51.40		ug/L		103	70 - 130	1	30
Xylenes, Total			100	98.95		ug/L		99	70 - 130	1	30
1,2-Dichloroethane			50.0	51.19		ug/L		102	70 - 130	2	50
Methyl-t-Butyl Ether (MTBE)			50.0	46.96		ug/L		94	70 - 130	1	30
Naphthalene			50.0	38.71		ug/L		77	57 - 149	0	30
tert-Butyl alcohol (TBA)			500	437.2		ug/L		87	57 - 120	2	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-219404-B-47 MS
Matrix: Water
Analysis Batch: 735486

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	686		500	1099		ug/L		83	70 - 130
Ethylbenzene	255		500	730.3		ug/L		95	70 - 130
Toluene	5.11	J	500	516.9		ug/L		102	70 - 130
Xylenes, Total	ND		1000	964.6		ug/L		96	70 - 130
1,2-Dichloroethane	ND		500	511.1		ug/L		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	158		500	609.5		ug/L		90	70 - 130
Naphthalene	55.4		500	469.8		ug/L		83	57 - 149
Isopropyl Ether (DIPE)	ND		500	374.6		ug/L		75	70 - 130
tert-Butyl alcohol (TBA)	102	J	5000	5412		ug/L		106	57 - 120
Ethanol	ND		20000	19280		ug/L		96	55 - 120
Tert-amyl-methyl ether (TAME)	96.2		500	606.7		ug/L		102	50 - 149
Ethyl tert-Butyl Ether (ETBE)	ND		500	510.9		ug/L		102	70 - 130
tert-Amyl alcohol	ND		5000	5579		ug/L		112	70 - 130
3,3-Dimethyl-1-butanol	ND		4000	4137		ug/L		103	70 - 130
tert-Butyl Formate	ND		4000	3114		ug/L		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: 680-219404-B-47 MSD
Matrix: Water
Analysis Batch: 735486

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	686		500	1105		ug/L		84	70 - 130	1	30
Ethylbenzene	255		500	729.3		ug/L		95	70 - 130	0	20
Toluene	5.11	J	500	517.2		ug/L		102	70 - 130	0	30
Xylenes, Total	ND		1000	968.9		ug/L		97	70 - 130	0	30
1,2-Dichloroethane	ND		500	517.8		ug/L		104	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	158		500	619.4		ug/L		92	70 - 130	2	30
Naphthalene	55.4		500	474.1		ug/L		84	57 - 149	1	30
Isopropyl Ether (DIPE)	ND		500	380.0		ug/L		76	70 - 130	1	30
tert-Butyl alcohol (TBA)	102	J	5000	5440		ug/L		107	57 - 120	1	40
Ethanol	ND		20000	19490		ug/L		97	55 - 120	1	30
Tert-amyl-methyl ether (TAME)	96.2		500	612.8		ug/L		103	50 - 149	1	30
Ethyl tert-Butyl Ether (ETBE)	ND		500	517.2		ug/L		103	70 - 130	1	30
tert-Amyl alcohol	ND		5000	5646		ug/L		113	70 - 130	1	30
3,3-Dimethyl-1-butanol	ND		4000	4228		ug/L		106	70 - 130	2	30
tert-Butyl Formate	ND		4000	3145		ug/L		79	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-734711/3-A
Matrix: Water
Analysis Batch: 734772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		08/08/22 13:25	08/08/22 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*103*		*60 - 144*	*08/08/22 13:25*	*08/08/22 15:48*	*1*

Lab Sample ID: LCS 680-734711/4-A
Matrix: Water
Analysis Batch: 734772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734711

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)			0.100	0.08918		ug/L		89	66 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*99*		*60 - 144*

Lab Sample ID: LCSD 680-734711/5-A
Matrix: Water
Analysis Batch: 734772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 734711

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)			0.100	0.08703		ug/L		87	66 - 126	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*96*		*60 - 144*

Lab Sample ID: 680-219295-24 MS
Matrix: Ground Water
Analysis Batch: 734915

Client Sample ID: DW-6
Prep Type: Total/NA
Prep Batch: 734711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)	9.61		0.101	10.22	4	ug/L		598	66 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*0*	*D*	*60 - 144*

Lab Sample ID: 680-219295-24 MSD
Matrix: Ground Water
Analysis Batch: 734915

Client Sample ID: DW-6
Prep Type: Total/NA
Prep Batch: 734711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	9.61		0.0983	14.38	4 F2	ug/L		4848	66 - 126	34	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*0*	*D*	*60 - 144*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 680-734947/3-A
Matrix: Water
Analysis Batch: 735008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		08/09/22 16:15	08/09/22 18:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*100*		*60 - 144*	*08/09/22 16:15*	*08/09/22 18:18*	*1*

Lab Sample ID: LCS 680-734947/4-A
Matrix: Water
Analysis Batch: 735008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734947

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)			0.100	0.09069		ug/L		91	66 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*101*		*60 - 144*

Lab Sample ID: LCSD 680-734947/5-A
Matrix: Water
Analysis Batch: 735008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 734947

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)			0.100	0.09018		ug/L		90	66 - 126	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*98*		*60 - 144*

Lab Sample ID: 680-219295-9 MS
Matrix: Ground Water
Analysis Batch: 735008

Client Sample ID: MW-21R
Prep Type: Total/NA
Prep Batch: 734947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)	ND	F1	0.107	0.09275		ug/L		87	66 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*104*	*p*	*60 - 144*

Lab Sample ID: 680-219295-9 MSD
Matrix: Ground Water
Analysis Batch: 735008

Client Sample ID: MW-21R
Prep Type: Total/NA
Prep Batch: 734947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	ND	F1	0.110	0.09686		ug/L		88	66 - 126	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*102*		*60 - 144*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 680-219295-18 MS
Matrix: Ground Water
Analysis Batch: 735008

Client Sample ID: MW-32
Prep Type: Total/NA
Prep Batch: 734947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (EDB)	0.0327	p F1	0.105	0.1726	F1	ug/L		134	66 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*193*	*p S1+*	*60 - 144*

Lab Sample ID: MB 680-734949/3-A
Matrix: Water
Analysis Batch: 735008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		08/09/22 17:42	08/09/22 23:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*101*		*60 - 144*	*08/09/22 17:42*	*08/09/22 23:01*	*1*

Lab Sample ID: LCS 680-734949/4-A
Matrix: Water
Analysis Batch: 735008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (EDB)			0.100	0.09123		ug/L		91	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*103*		*60 - 144*

Lab Sample ID: LCSD 680-734949/5-A
Matrix: Water
Analysis Batch: 735008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 734949

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)			0.100	0.08048		ug/L		80	66 - 126	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*102*		*60 - 144*

Lab Sample ID: 680-219295-28 MS
Matrix: Ground Water
Analysis Batch: 735008

Client Sample ID: DDW-1D (112.5')
Prep Type: Total/NA
Prep Batch: 734949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (EDB)	ND		0.106	0.08617		ug/L		81	66 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*92*		*60 - 144*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 680-219295-31 MS
Matrix: Ground Water
Analysis Batch: 735008

Client Sample ID: DDW-3
Prep Type: Total/NA
Prep Batch: 734949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (EDB)	0.00626	J p	0.104	0.09177		ug/L		82	66 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*95*		*60 - 144*

Lab Sample ID: 680-219295-31 MSD
Matrix: Ground Water
Analysis Batch: 735008

Client Sample ID: DDW-3
Prep Type: Total/NA
Prep Batch: 734949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	0.00626	J p	0.104	0.1003		ug/L		90	66 - 126	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*94*		*60 - 144*

Lab Sample ID: MB 680-735208/3-A
Matrix: Water
Analysis Batch: 735241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		08/10/22 18:01	08/10/22 22:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*100*		*60 - 144*	*08/10/22 18:01*	*08/10/22 22:28*	*1*

Lab Sample ID: LCS 680-735208/4-A
Matrix: Water
Analysis Batch: 735241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735208

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (EDB)			0.100	0.09092		ug/L		91	66 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*93*		*60 - 144*

Lab Sample ID: LCSD 680-735208/5-A
Matrix: Water
Analysis Batch: 735241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 735208

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)			0.100	0.08852		ug/L		89	66 - 126	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*96*		*60 - 144*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 680-219295-43 MS
Matrix: Surface Water
Analysis Batch: 735241

Client Sample ID: SW-3
Prep Type: Total/NA
Prep Batch: 735208

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)	ND		0.0983	0.08886	p	ug/L		90	66 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*77*		*60 - 144*

Lab Sample ID: 680-219396-G-7-A MS
Matrix: Water
Analysis Batch: 735241

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 735208

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)	ND		0.102	0.08676		ug/L		85	66 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*97*		*60 - 144*

Lab Sample ID: 680-219396-H-7-A MSD
Matrix: Water
Analysis Batch: 735241

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 735208

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	ND		0.101	0.08438		ug/L		83	66 - 126	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*91*		*60 - 144*

Lab Sample ID: MB 680-735451/3-A
Matrix: Water
Analysis Batch: 735454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		08/11/22 19:10	08/11/22 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*98*		*60 - 144*	*08/11/22 19:10*	*08/11/22 21:24*	*1*

Lab Sample ID: LCS 680-735451/4-A
Matrix: Water
Analysis Batch: 735454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735451

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (EDB)			0.100	0.08509		ug/L		85	66 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*107*		*60 - 144*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 680-735451/5-A
Matrix: Water
Analysis Batch: 735454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 735451

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)			0.100	0.08272		ug/L		83	66 - 126	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*102*		*60 - 144*

Lab Sample ID: 680-219399-G-1-A MSD
Matrix: Water
Analysis Batch: 735454

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 735451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	ND		0.101	0.1020		ug/L		101	66 - 126	21	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Pentachloroethane	*96*		*60 - 144*

Lab Sample ID: 680-219404-F-3-A MS
Matrix: Water
Analysis Batch: 735454

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 735451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (EDB)	ND		0.0992	0.04561	p F1	ug/L		46	66 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Pentachloroethane	*78*		*60 - 144*

GC/MS VOA

Analysis Batch: 734636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-39	FB	Total/NA	Water	8260D	
680-219295-40	GAC	Total/NA	Ground Water	8260D	
MB 680-734636/9	Method Blank	Total/NA	Water	8260D	
LCS 680-734636/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-734636/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-218944-I-1 MS	Matrix Spike	Total/NA	Water	8260D	
680-218944-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 734870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-1	MW-1	Total/NA	Ground Water	8260D	
680-219295-2	MW-2	Total/NA	Ground Water	8260D	
680-219295-3	MW-4	Total/NA	Ground Water	8260D	
680-219295-4	MW-5	Total/NA	Ground Water	8260D	
680-219295-5	MW-12	Total/NA	Ground Water	8260D	
680-219295-6	MW-13	Total/NA	Ground Water	8260D	
680-219295-7	MW-19R	Total/NA	Ground Water	8260D	
680-219295-8	MW-20	Total/NA	Ground Water	8260D	
680-219295-9	MW-21R	Total/NA	Ground Water	8260D	
680-219295-11	MW-23	Total/NA	Ground Water	8260D	
680-219295-14	MW-27	Total/NA	Ground Water	8260D	
680-219295-15	MW-28	Total/NA	Ground Water	8260D	
680-219295-16	MW-29	Total/NA	Ground Water	8260D	
MB 680-734870/9	Method Blank	Total/NA	Water	8260D	
LCS 680-734870/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-734870/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219294-C-28 MS	Matrix Spike	Total/NA	Water	8260D	
680-219294-C-28 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 734879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-17	MW-31	Total/NA	Ground Water	8260D	
680-219295-18	MW-32	Total/NA	Ground Water	8260D	
680-219295-19	DW-1	Total/NA	Ground Water	8260D	
680-219295-22	DW-4	Total/NA	Ground Water	8260D	
680-219295-23	DW-5	Total/NA	Ground Water	8260D	
680-219295-25	DDW-1A (83.5')	Total/NA	Ground Water	8260D	
680-219295-26	DDW-1B (92.5')	Total/NA	Ground Water	8260D	
680-219295-27	DDW-1C (102.5')	Total/NA	Ground Water	8260D	
680-219295-28	DDW-1D (112.5')	Total/NA	Ground Water	8260D	
680-219295-29	DDW-1E (119.5')	Total/NA	Ground Water	8260D	
680-219295-30	DDW-2	Total/NA	Ground Water	8260D	
680-219295-31	DDW-3	Total/NA	Ground Water	8260D	
680-219295-32	DDW-4	Total/NA	Ground Water	8260D	
680-219295-33	RW-2	Total/NA	Ground Water	8260D	
680-219295-34	EP-4	Total/NA	Ground Water	8260D	
680-219295-35	EP-12	Total/NA	Ground Water	8260D	
MB 680-734879/9	Method Blank	Total/NA	Water	8260D	
LCS 680-734879/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-734879/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219295-33 MS	RW-2	Total/NA	Ground Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 734879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-33 MSD	RW-2	Total/NA	Ground Water	8260D	

Analysis Batch: 735070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-10	MW-22	Total/NA	Ground Water	8260D	
680-219295-12	MW-24	Total/NA	Ground Water	8260D	
680-219295-13	MW-25	Total/NA	Ground Water	8260D	
680-219295-19 - DL	DW-1	Total/NA	Ground Water	8260D	
680-219295-20	DW-2	Total/NA	Ground Water	8260D	
680-219295-21	DW-3	Total/NA	Ground Water	8260D	
680-219295-22 - DL	DW-4	Total/NA	Ground Water	8260D	
MB 680-735070/9	Method Blank	Total/NA	Water	8260D	
LCS 680-735070/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-735070/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219294-C-25 MS	Matrix Spike	Total/NA	Water	8260D	
680-219294-C-25 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 735090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-23	DW-5	Total/NA	Ground Water	8260D	
680-219295-24	DW-6	Total/NA	Ground Water	8260D	
680-219295-36	EP-20	Total/NA	Ground Water	8260D	
680-219295-38	DUP-2	Total/NA	Ground Water	8260D	
680-219295-41	SW-1	Total/NA	Surface Water	8260D	
680-219295-42	SW-2	Total/NA	Surface Water	8260D	
680-219295-43	SW-3	Total/NA	Surface Water	8260D	
680-219295-44	SW-4	Total/NA	Surface Water	8260D	
680-219295-45	TB-1	Total/NA	Water	8260D	
680-219295-46	TB-2	Total/NA	Water	8260D	
MB 680-735090/9	Method Blank	Total/NA	Water	8260D	
LCS 680-735090/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-735090/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219295-38 MS	DUP-2	Total/NA	Ground Water	8260D	
680-219295-38 MSD	DUP-2	Total/NA	Ground Water	8260D	

Analysis Batch: 735318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-13 - DL	MW-25	Total/NA	Ground Water	8260D	
MB 680-735318/9	Method Blank	Total/NA	Water	8260D	
LCS 680-735318/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-735318/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219395-E-7 MS	Matrix Spike	Total/NA	Water	8260D	
680-219395-E-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 735327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-37	DUP-1	Total/NA	Ground Water	8260D	
MB 680-735327/9	Method Blank	Total/NA	Water	8260D	
LCS 680-735327/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-735327/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219295-37 MS	DUP-1	Total/NA	Ground Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 735327 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-37 MSD	DUP-1	Total/NA	Ground Water	8260D	

Analysis Batch: 735486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-16 - RA	MW-29	Total/NA	Ground Water	8260D	
MB 680-735486/9	Method Blank	Total/NA	Water	8260D	
LCS 680-735486/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-735486/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-219404-B-47 MS	Matrix Spike	Total/NA	Water	8260D	
680-219404-B-47 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 734711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-734711/3-A	Method Blank	Total/NA	Water	8011	
LCS 680-734711/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-734711/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
680-219295-24 MS	DW-6	Total/NA	Ground Water	8011	
680-219295-24 MSD	DW-6	Total/NA	Ground Water	8011	

Analysis Batch: 734772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-734711/3-A	Method Blank	Total/NA	Water	8011	734711
LCS 680-734711/4-A	Lab Control Sample	Total/NA	Water	8011	734711
LCSD 680-734711/5-A	Lab Control Sample Dup	Total/NA	Water	8011	734711

Analysis Batch: 734915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-24 MS	DW-6	Total/NA	Ground Water	8011	734711
680-219295-24 MSD	DW-6	Total/NA	Ground Water	8011	734711

Prep Batch: 734947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-1	MW-1	Total/NA	Ground Water	8011	
680-219295-2	MW-2	Total/NA	Ground Water	8011	
680-219295-3	MW-4	Total/NA	Ground Water	8011	
680-219295-4	MW-5	Total/NA	Ground Water	8011	
680-219295-5	MW-12	Total/NA	Ground Water	8011	
680-219295-6	MW-13	Total/NA	Ground Water	8011	
680-219295-7	MW-19R	Total/NA	Ground Water	8011	
680-219295-8	MW-20	Total/NA	Ground Water	8011	
680-219295-9	MW-21R	Total/NA	Ground Water	8011	
680-219295-10	MW-22	Total/NA	Ground Water	8011	
680-219295-11	MW-23	Total/NA	Ground Water	8011	
680-219295-12	MW-24	Total/NA	Ground Water	8011	
680-219295-13	MW-25	Total/NA	Ground Water	8011	
680-219295-14	MW-27	Total/NA	Ground Water	8011	
680-219295-15	MW-28	Total/NA	Ground Water	8011	
680-219295-16	MW-29	Total/NA	Ground Water	8011	
680-219295-18	MW-32	Total/NA	Ground Water	8011	

GC Semi VOA (Continued)

Prep Batch: 734947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-19	DW-1	Total/NA	Ground Water	8011	
680-219295-20	DW-2	Total/NA	Ground Water	8011	
MB 680-734947/3-A	Method Blank	Total/NA	Water	8011	
LCS 680-734947/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-734947/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
680-219295-9 MS	MW-21R	Total/NA	Ground Water	8011	
680-219295-9 MSD	MW-21R	Total/NA	Ground Water	8011	
680-219295-18 MS	MW-32	Total/NA	Ground Water	8011	

Prep Batch: 734949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-21	DW-3	Total/NA	Ground Water	8011	
680-219295-22	DW-4	Total/NA	Ground Water	8011	
680-219295-23	DW-5	Total/NA	Ground Water	8011	
680-219295-24	DW-6	Total/NA	Ground Water	8011	
680-219295-25	DDW-1A (83.5')	Total/NA	Ground Water	8011	
680-219295-26	DDW-1B (92.5')	Total/NA	Ground Water	8011	
680-219295-27	DDW-1C (102.5')	Total/NA	Ground Water	8011	
680-219295-28	DDW-1D (112.5')	Total/NA	Ground Water	8011	
680-219295-29	DDW-1E (119.5')	Total/NA	Ground Water	8011	
680-219295-30	DDW-2	Total/NA	Ground Water	8011	
680-219295-31	DDW-3	Total/NA	Ground Water	8011	
680-219295-32	DDW-4	Total/NA	Ground Water	8011	
680-219295-33	RW-2	Total/NA	Ground Water	8011	
680-219295-34	EP-4	Total/NA	Ground Water	8011	
680-219295-35	EP-12	Total/NA	Ground Water	8011	
680-219295-36	EP-20	Total/NA	Ground Water	8011	
680-219295-37	DUP-1	Total/NA	Ground Water	8011	
680-219295-38	DUP-2	Total/NA	Ground Water	8011	
680-219295-39	FB	Total/NA	Water	8011	
680-219295-40	GAC	Total/NA	Ground Water	8011	
MB 680-734949/3-A	Method Blank	Total/NA	Water	8011	
LCS 680-734949/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-734949/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
680-219295-28 MS	DDW-1D (112.5')	Total/NA	Ground Water	8011	
680-219295-31 MS	DDW-3	Total/NA	Ground Water	8011	
680-219295-31 MSD	DDW-3	Total/NA	Ground Water	8011	

Analysis Batch: 735008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-1	MW-1	Total/NA	Ground Water	8011	734947
680-219295-7	MW-19R	Total/NA	Ground Water	8011	734947
680-219295-9	MW-21R	Total/NA	Ground Water	8011	734947
680-219295-11	MW-23	Total/NA	Ground Water	8011	734947
680-219295-13	MW-25	Total/NA	Ground Water	8011	734947
680-219295-14	MW-27	Total/NA	Ground Water	8011	734947
680-219295-15	MW-28	Total/NA	Ground Water	8011	734947
680-219295-18	MW-32	Total/NA	Ground Water	8011	734947
680-219295-23	DW-5	Total/NA	Ground Water	8011	734949
680-219295-25	DDW-1A (83.5')	Total/NA	Ground Water	8011	734949
680-219295-26	DDW-1B (92.5')	Total/NA	Ground Water	8011	734949

GC Semi VOA (Continued)

Analysis Batch: 735008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-27	DDW-1C (102.5')	Total/NA	Ground Water	8011	734949
680-219295-28	DDW-1D (112.5')	Total/NA	Ground Water	8011	734949
680-219295-29	DDW-1E (119.5')	Total/NA	Ground Water	8011	734949
680-219295-30	DDW-2	Total/NA	Ground Water	8011	734949
680-219295-31	DDW-3	Total/NA	Ground Water	8011	734949
680-219295-33	RW-2	Total/NA	Ground Water	8011	734949
680-219295-34	EP-4	Total/NA	Ground Water	8011	734949
680-219295-38	DUP-2	Total/NA	Ground Water	8011	734949
680-219295-39	FB	Total/NA	Water	8011	734949
680-219295-40	GAC	Total/NA	Ground Water	8011	734949
MB 680-734947/3-A	Method Blank	Total/NA	Water	8011	734947
MB 680-734949/3-A	Method Blank	Total/NA	Water	8011	734949
LCS 680-734947/4-A	Lab Control Sample	Total/NA	Water	8011	734947
LCS 680-734949/4-A	Lab Control Sample	Total/NA	Water	8011	734949
LCSD 680-734947/5-A	Lab Control Sample Dup	Total/NA	Water	8011	734947
LCSD 680-734949/5-A	Lab Control Sample Dup	Total/NA	Water	8011	734949
680-219295-9 MS	MW-21R	Total/NA	Ground Water	8011	734947
680-219295-9 MSD	MW-21R	Total/NA	Ground Water	8011	734947
680-219295-18 MS	MW-32	Total/NA	Ground Water	8011	734947
680-219295-28 MS	DDW-1D (112.5')	Total/NA	Ground Water	8011	734949
680-219295-31 MS	DDW-3	Total/NA	Ground Water	8011	734949
680-219295-31 MSD	DDW-3	Total/NA	Ground Water	8011	734949

Analysis Batch: 735129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-2	MW-2	Total/NA	Ground Water	8011	734947
680-219295-3	MW-4	Total/NA	Ground Water	8011	734947
680-219295-4	MW-5	Total/NA	Ground Water	8011	734947
680-219295-5	MW-12	Total/NA	Ground Water	8011	734947
680-219295-6	MW-13	Total/NA	Ground Water	8011	734947
680-219295-8	MW-20	Total/NA	Ground Water	8011	734947
680-219295-10	MW-22	Total/NA	Ground Water	8011	734947
680-219295-12	MW-24	Total/NA	Ground Water	8011	734947
680-219295-16	MW-29	Total/NA	Ground Water	8011	734947
680-219295-19	DW-1	Total/NA	Ground Water	8011	734947
680-219295-20	DW-2	Total/NA	Ground Water	8011	734947
680-219295-21	DW-3	Total/NA	Ground Water	8011	734949
680-219295-22	DW-4	Total/NA	Ground Water	8011	734949
680-219295-24	DW-6	Total/NA	Ground Water	8011	734949
680-219295-32	DDW-4	Total/NA	Ground Water	8011	734949
680-219295-35	EP-12	Total/NA	Ground Water	8011	734949
680-219295-36	EP-20	Total/NA	Ground Water	8011	734949
680-219295-37	DUP-1	Total/NA	Ground Water	8011	734949

Prep Batch: 735208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-41	SW-1	Total/NA	Surface Water	8011	
680-219295-42	SW-2	Total/NA	Surface Water	8011	
680-219295-43	SW-3	Total/NA	Surface Water	8011	
680-219295-44	SW-4	Total/NA	Surface Water	8011	
MB 680-735208/3-A	Method Blank	Total/NA	Water	8011	

GC Semi VOA (Continued)

Prep Batch: 735208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-735208/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-735208/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
680-219295-43 MS	SW-3	Total/NA	Surface Water	8011	
680-219396-G-7-A MS	Matrix Spike	Total/NA	Water	8011	
680-219396-H-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	8011	

Analysis Batch: 735241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-41	SW-1	Total/NA	Surface Water	8011	735208
680-219295-42	SW-2	Total/NA	Surface Water	8011	735208
680-219295-43	SW-3	Total/NA	Surface Water	8011	735208
680-219295-44	SW-4	Total/NA	Surface Water	8011	735208
MB 680-735208/3-A	Method Blank	Total/NA	Water	8011	735208
LCS 680-735208/4-A	Lab Control Sample	Total/NA	Water	8011	735208
LCSD 680-735208/5-A	Lab Control Sample Dup	Total/NA	Water	8011	735208
680-219295-43 MS	SW-3	Total/NA	Surface Water	8011	735208
680-219396-G-7-A MS	Matrix Spike	Total/NA	Water	8011	735208
680-219396-H-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	8011	735208

Prep Batch: 735451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-17	MW-31	Total/NA	Ground Water	8011	
MB 680-735451/3-A	Method Blank	Total/NA	Water	8011	
LCS 680-735451/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-735451/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
680-219399-G-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8011	
680-219404-F-3-A MS	Matrix Spike	Total/NA	Water	8011	

Analysis Batch: 735454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219295-17	MW-31	Total/NA	Ground Water	8011	735451
MB 680-735451/3-A	Method Blank	Total/NA	Water	8011	735451
LCS 680-735451/4-A	Lab Control Sample	Total/NA	Water	8011	735451
LCSD 680-735451/5-A	Lab Control Sample Dup	Total/NA	Water	8011	735451
680-219399-G-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8011	735451
680-219404-F-3-A MS	Matrix Spike	Total/NA	Water	8011	735451

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-1
Date Collected: 08/03/22 12:23
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734870	08/09/22 13:38	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.7 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 18:57	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-2
Date Collected: 08/03/22 12:15
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	5 mL	5 mL	734870	08/09/22 18:04	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			33.7 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		200			735129	08/10/22 11:42	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-4
Date Collected: 08/03/22 12:35
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		200	5 mL	5 mL	734870	08/09/22 17:37	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			32.6 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1000			735129	08/10/22 11:52	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-5
Date Collected: 08/03/22 12:28
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	734870	08/09/22 21:10	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.6 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		100			735129	08/10/22 12:02	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-12
Date Collected: 08/03/22 12:05
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	5 mL	5 mL	734870	08/09/22 18:30	P1C	EET SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: MW-12
Date Collected: 08/03/22 12:05
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.1 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		400			735129	08/10/22 12:12	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-13
Date Collected: 08/03/22 12:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	734870	08/09/22 19:24	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			34.9 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		400			735129	08/10/22 12:22	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-19R
Date Collected: 08/03/22 11:47
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734870	08/09/22 14:04	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			33.8 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 19:56	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-20
Date Collected: 08/03/22 12:08
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	734870	08/09/22 21:36	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.5 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		10			735129	08/10/22 12:31	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-21R
Date Collected: 08/03/22 12:03
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734870	08/09/22 14:30	P1C	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-21R

Date Collected: 08/03/22 12:03
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.3 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 20:15	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-22

Date Collected: 08/03/22 12:10
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-10
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	5 mL	5 mL	735070	08/10/22 18:10	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	8011			30.5 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1000			735129	08/10/22 12:41	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-23

Date Collected: 08/03/22 11:25
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734870	08/09/22 14:57	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			33.3 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 20:35	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-24

Date Collected: 08/03/22 12:20
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	735070	08/10/22 18:30	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	8011			33.3 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1000			735129	08/10/22 12:51	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-25

Date Collected: 08/03/22 12:13
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735070	08/10/22 16:10	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	735318	08/11/22 22:16	P1C	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-25

Date Collected: 08/03/22 12:13
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.8 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 20:54	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-27

Date Collected: 08/03/22 11:35
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-14
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734870	08/09/22 15:24	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			33.3 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 21:04	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-28

Date Collected: 08/03/22 11:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-15
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734870	08/09/22 15:50	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			34.6 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 21:14	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-29

Date Collected: 08/03/22 11:42
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-16
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	50	5 mL	5 mL	735486	08/12/22 19:24	UI	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		50	5 mL	5 mL	734870	08/09/22 19:50	P1C	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	8011			35.1 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		100			735129	08/10/22 13:11	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-31

Date Collected: 08/03/22 10:42
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-17
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 15:43	P1C	EET SAV
	Instrument ID: CMSU									

Client Sample ID: MW-31
Date Collected: 08/03/22 10:42
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-17
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34 mL	2 mL	735451	08/11/22 19:10	GEM	EET SAV
Total/NA	Analysis	8011		10			735454	08/11/22 22:13	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: MW-32
Date Collected: 08/03/22 11:31
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-18
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 16:07	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			33.4 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/09/22 21:43	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DW-1
Date Collected: 08/03/22 11:49
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-19
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	20	5 mL	5 mL	735070	08/10/22 19:10	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 13:46	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.4 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		100			735129	08/10/22 13:21	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DW-2
Date Collected: 08/03/22 11:37
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-20
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		200	5 mL	5 mL	735070	08/10/22 19:30	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	8011			35.4 mL	2 mL	734947	08/09/22 16:15	IB	EET SAV
Total/NA	Analysis	8011		1000			735129	08/10/22 13:30	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DW-3
Date Collected: 08/03/22 11:24
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-21
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735070	08/10/22 15:50	P1C	EET SAV
	Instrument ID: CMSB									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DW-3

Date Collected: 08/03/22 11:24
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-21
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.5 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		10			735129	08/10/22 13:40	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DW-4

Date Collected: 08/03/22 11:55
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-22
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	20	5 mL	5 mL	735070	08/10/22 16:30	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 14:09	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.7 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		25			735129	08/10/22 13:50	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DW-5

Date Collected: 08/03/22 11:17
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-23
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 14:33	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 15:29	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			36.9 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 00:00	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DW-6

Date Collected: 08/03/22 11:30
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-24
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	735090	08/10/22 21:21	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			35.1 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		100			735129	08/10/22 14:00	JCK	EET SAV
	Instrument ID: CSGX									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DDW-1A (83.5')

Lab Sample ID: 680-219295-25
Matrix: Ground Water
Date Collected: 08/03/22 09:52
Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 15:20	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			33.7 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 00:20	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-1B (92.5')

Lab Sample ID: 680-219295-26
Matrix: Ground Water
Date Collected: 08/03/22 09:57
Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 16:30	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			33.7 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 00:30	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-1C (102.5')

Lab Sample ID: 680-219295-27
Matrix: Ground Water
Date Collected: 08/03/22 10:04
Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 16:54	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.3 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 00:39	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-1D (112.5')

Lab Sample ID: 680-219295-28
Matrix: Ground Water
Date Collected: 08/03/22 10:10
Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 17:41	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.1 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 00:49	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-1E (119.5')

Lab Sample ID: 680-219295-29
Matrix: Ground Water
Date Collected: 08/03/22 10:15
Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 18:04	P1C	EET SAV
	Instrument ID: CMSU									

Client Sample ID: DDW-1E (119.5')

Lab Sample ID: 680-219295-29

Date Collected: 08/03/22 10:15

Matrix: Ground Water

Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.1 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 00:59	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-2

Lab Sample ID: 680-219295-30

Date Collected: 08/03/22 10:40

Matrix: Ground Water

Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 18:28	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.6 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 01:09	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-3

Lab Sample ID: 680-219295-31

Date Collected: 08/03/22 11:19

Matrix: Ground Water

Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 18:51	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			35.5 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 01:19	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DDW-4

Lab Sample ID: 680-219295-32

Date Collected: 08/03/22 11:26

Matrix: Ground Water

Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734879	08/09/22 17:17	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			33.6 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		5			735129	08/10/22 14:09	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: RW-2

Lab Sample ID: 680-219295-33

Date Collected: 08/03/22 12:18

Matrix: Ground Water

Date Received: 08/04/22 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	734879	08/09/22 20:02	P1C	EET SAV
	Instrument ID: CMSU									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: RW-2
Date Collected: 08/03/22 12:18
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-33
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.5 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 01:38	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: EP-4
Date Collected: 08/03/22 12:30
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-34
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	5 mL	5 mL	734879	08/09/22 20:25	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			35.3 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 01:48	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: EP-12
Date Collected: 08/03/22 12:25
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-35
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2000	5 mL	5 mL	734879	08/09/22 20:49	P1C	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			32.5 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1000			735129	08/10/22 14:19	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: EP-20
Date Collected: 08/03/22 12:35
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-36
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		250	5 mL	5 mL	735090	08/10/22 20:58	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.6 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		5000			735129	08/10/22 14:29	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DUP-1
Date Collected: 08/03/22 00:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-37
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	5 mL	5 mL	735327	08/11/22 13:57	P1C	EET SAV
	Instrument ID: CMSU									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: DUP-1
Date Collected: 08/03/22 00:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-37
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.6 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		500			735129	08/10/22 14:39	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: DUP-2
Date Collected: 08/03/22 00:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-38
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	735090	08/10/22 21:45	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.4 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 02:27	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: FB
Date Collected: 08/03/22 12:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734636	08/08/22 16:22	SMP	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	8011			33.1 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 02:37	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: GAC
Date Collected: 08/03/22 12:45
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-40
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	734636	08/08/22 18:01	SMP	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	8011			34.1 mL	2 mL	734949	08/09/22 17:42	IB	EET SAV
Total/NA	Analysis	8011		1			735008	08/10/22 02:47	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: SW-1
Date Collected: 08/03/22 11:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-41
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 15:52	Y1S	EET SAV
	Instrument ID: CMSU									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: SW-1
Date Collected: 08/03/22 11:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-41
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.3 mL	2 mL	735208	08/10/22 18:01	IB	EET SAV
Total/NA	Analysis	8011		1			735241	08/11/22 01:44	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: SW-2
Date Collected: 08/03/22 10:50
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-42
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 16:16	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			34.8 mL	2 mL	735208	08/10/22 18:01	IB	EET SAV
Total/NA	Analysis	8011		10			735241	08/11/22 12:22	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: SW-3
Date Collected: 08/03/22 10:40
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-43
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 16:39	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			35 mL	2 mL	735208	08/10/22 18:01	IB	EET SAV
Total/NA	Analysis	8011		1			735241	08/11/22 02:04	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: SW-4
Date Collected: 08/03/22 11:10
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-44
Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 17:03	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	8011			35.6 mL	2 mL	735208	08/10/22 18:01	IB	EET SAV
Total/NA	Analysis	8011		1			735241	08/11/22 02:13	JCK	EET SAV
	Instrument ID: CSGX									

Client Sample ID: TB-1
Date Collected: 08/03/22 08:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 13:55	Y1S	EET SAV
	Instrument ID: CMSU									

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Client Sample ID: TB-2

Date Collected: 08/03/22 08:00
Date Received: 08/04/22 16:35

Lab Sample ID: 680-219295-46

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	735090	08/10/22 14:18	Y1S	EET SAV
	Instrument ID: CMSU									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Midlands Environmental Consultants Inc
Job ID: 680-219295-1
Project/Site: UST Unknown

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Midlands Environmental Consultants Inc
Project/Site: UST Unknown

Job ID: 680-219295-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
8011	Microextraction	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler	Lab PM: Andros, John	Carrier Tracking No(s)	COC No
Client Contact: Jeff Coleman / Kyle Pudney	Phone: 803-808-2043	E-Mail: john andros@eurofinset.com	State of Origin: SC	Page: Page 1 of 1
Company: Midlands Environmental Consultants Inc.	PWSID:			
Address: 231 Dooley Road	Due Date Requested			
City: Lexington	TAT Requested (days):			
State Zip: SC 29073	Compliance Project: Δ Yes Δ No			
Phone: 803-808-2043	PO #:			
Email: JLC@meci.net / KVP@meci.net	WO #: 21-7631			
Project Name: UST UNKNOWN	Eurofins Project #:			
Site	SSOW#:			

Analysis Requested

680-219295 Chain of Custody

Preservation Codes.

A HCL	M - Hexane
B NaOH	N None
C Zn Acetate	O AsNaO2
D Nitric Acid	P Na2O4S
E NaHSO4	Q Na2SO3
F MeOH	R Na2S2O3
G - Amchlor	S H2SO4
H Ascorbic Acid	T - TSP Dodecahydrate
I Ice	U Acetone
J - DI Water	V MCAA
K - EDTA	W pH 4-5
L EDA	Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEXNM, 1, 2 DCA, OXYGENATES (8260D)	EDB (8011)	Total Number of containers	Special Instructions/Note:
MW-1	8/3/22	1223	G	W			X	X	6	Strong odor
MW-2	8/3/22	1215	G	W			X	X	6	strong odor
MW-3										
MW-4	8/3/22	1235	G	W			X	X	6	Strong odor
MW-5	8/3/22	1228	G	W			X	X	6	Strong odor
MW-8										
MW-12	8/3/22	1203	G	W			X	X	6	odor
MW-13		1200							6	odor
MW-19R		1147							6	No odor
MW-20		1208							6	Slight odor
MW-21R		1203							6	No odor
MW-22		1210					X	X	6	odor

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	8/4/22 1205		Received by: Barbara Dicks	8/4/22 12:05	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4 1635	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		0.9/0.8 0.7/0.6

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler	Lab PM: Andros John	Carrier Tracking No(s)	COC No
Client Contact: Jeff Coleman / Kyle Pudney	Phone: 803-808-2043	E-Mail: john andros@eurofinset.com	State of Origin: SC	Page: Page 1 of 1
Company: Midlands Environmental Consultants Inc.	PWSID:			
Address: 231 Dooley Road	Due Date Requested			
City: Lexington	TAT Requested (days):			
State Zip: SC 29073	Compliance Project: Δ Yes Δ No			
Phone: 803-808-2043	PO #:			
Email: JLC@meci net / KVP@meci.net	WO #: 21-7631			
Project Name: VST UNKNOWN	Eurofins Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M Hexane
B - NaOH	N - None
C - Zn Acetate	O AsNaO2
D Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S H2SO4
H Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEXNM, 1, 2 DCA, OXYGENATES (8260D)	EDB (8011)	Total Number of containers	Special Instructions/Note
MW-23	8/3/22	1105	G	W			X	X	6	No Odor
MW-24		1126					X	X	6	Strong Odor
MW-25		1213					X	X	6	Slight Odor
MW-26										
MW-27	8/3/22	1135	G	W			X	X	6	No Odor
MW-28		40					X	X	6	No Odor
MW-29		42					X	X	6	Odor
MW-30										
MW-31	8/3/22	1042	G	W			X	X	6	No Odor
MW-32		1131					X	X	6	No water
DW-1		1149					X	X	6	Slight Odor
DW-2		1137					X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/4/22 1205		[signature]	8-4-22 12:05	
2						
3					9/4 1635	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler	Lab PM: Andros John	Carrier Tracking No(s).	COC No:
Client Contact: Jeff Coleman / Kyle Pudney	Phone: 803-808-2043	E-Mail: john andros@eurofinset.com	State of Origin: SC	Page: Page 1 of 1
Company: Midlands Environmental Consultants Inc.	PWSID:			
Address: 231 Dooley Road	Due Date Requested			
City: Lexington	TAT Requested (days)			
State Zip: SC 29073	Compliance Project: Δ Yes Δ No			
Phone: 803-808-2043	PO #:			
Email: JLC@meci.net / KVP@meci.net	WO #: 2-7631			
Project Name: UST UNKNOWN	Eurofins Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K - EDTA, L - EDA, M Hexane, N None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEXNM, 1, 2 DCA, OXYGENATES (8260D)	EDB (8011)	Total Number of containers	Special Instructions/Note.
DW-3	8/3/22	1124	G	W			X	X	6	No Odor
DW-4		1155					X	X	6	Slight odor
DW-5		1117					X	X	6	No odor
DW-6		1130					X	X	6	Slight odor
DDW-1A (8'5")		952							6	No Odor
DDW-[redacted]1B (7'5")		957							6	
DDW-[redacted]1C (6'5")		1004							6	
DDW-[redacted]1D (5'5")		1012							6	
DDW-1E (4'5")		1015							6	
DDW-2		1040							6	
DDW-3		1119							6	
DDW-4		1126					X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/4/22 1205		Barbara DiBella	8-4-22 1205	
2						
3					8/4 1635	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler	Lab PM: Andros John	Carrier Tracking No(s)	COC No:
Client Contact: Jeff Coleman / Kyle Pudney	Phone: 803-808-2043	E-Mail: john andros@eurofinset.com	State of Origin: SC	Page: Page 1 of 1
Company: Midlands Environmental Consultants Inc.	PWSID:			
Address: 231 Dooley Road	Due Date Requested			
City: Lexington	TAT Requested (days)			
State Zip: SC 29073	Compliance Project: Δ Yes Δ No			
Phone: 803-808-2043	PO #:			
Email: JLC@meci net / KVP@meci.net	WO #: 21-7631			
Project Name: UST UNKNOWN	Eurofins Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E - NaHSO4, F - MeOH, G Amchlor, H Ascorbic Acid, I Ice, J - DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q - Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEXNM, 1, 2 DCA, OXYGENATES (8260D)	EDB (8011)	Total Number of containers	Special Instructions/Note
RW-1										
RW-2	8/3/22	1218	G	W			X	X	6	Strong odor
RW-3										
RW-4										
RW-5										
EP-4	8/3/22	1230	G	W			X	X	6	odo
EF-12	↓	1235	G	W			X	X	6	strong od
EP-16										
EP 20	8/3/22	1235	G	W			X	X	6	Strong odor
DUP-1	↓	—	↓	↓			X	X	6	odor
DUP 2		—					X	X	6	Strong odor
FB	↓	1240	↓	↓			X	X	6	field blank

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/4/22 1205		Barbara D. Coker	8-4-22 1245	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	8/4 1635	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler	Lab PM: Andros John	Carrier Tracking No(s)	COC No:
Client Contact: Jeff Coleman / Kyle Pudney	Phone: 803-808-2043	E-Mail john andros@eurofinset.com	State of Origin. SC	Page: Page 1 of 1
Company: Midlands Environmental Consultants Inc	PWSID:			
Address: 231 Dooley Road	Due Date Requested:			
City: Lexington	TAT Requested (days):			
State, Zip: SC 29073	Compliance Project: Δ Yes Δ No			
Phone: 803-808-2043	PO #:			
Email: JLC@meci net / KVP@meci.net	WO #: 21-7631			
Project Name: UST UNKNOWN	Eurofins Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL
B - NaOH
C Zn Acetate
D - Nitric Acid
E NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L EDA
M - Hexane
N None
O - AsNaO2
P Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	BTEXNM + Oxyg's + 1,2 DCA (8260D)	EDB (8011)	Total Number of containers	Special Instructions/Note:
GAC	8/3/22	1245	G	W			X	X	6	gac
SW-1	"	1100	"	"			X	X	6	LDL's
SW-2	"	1050	"	"			X	X	6	
SW-3	"	1040	"	"			X	X	6	
SW-4	"	1110	"	"			X	X	6	
TB-1	"	800	"	"			X		2	tr p
TB-2	"	800	"	"			X		2	"

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	8/4/22 1205		Received by:	8-4-22 1205	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4 1635	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Midlands Environmental Consultants Inc

Job Number: 680-219295-1

Login Number: 219295
List Number: 1
Creator: Hartley, Tyler

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C:

TAX MAP