

Incident ID	NRM2014755309
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?

240 (ft bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☐ Yes ☒ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ No

Did the release impact areas **not** on an exploration, development, production, or storage site?

☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

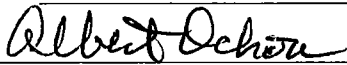
Incident ID	NRM2014755309
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Albert Ochoa

Title: HSE Representative

Signature:



Date:

8/21/20

email: albert.ochoa@goodnightmidstream.com

Telephone: 432-242-6629

OCD Only

Received by: Cristina Eads

Date: 10/22/2020

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State of New Mexico
Oil Conservation Division

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Incident ID	NRM2014755309
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Albert Ochoa

Title: HSE Representative

Signature: Albert OchoaDate: 8/21/20email: albert.ochoa@goodnightmidstream.comTelephone: 432-242-6629
OCD Only
Received by: Cristina EadsDate: 10/22/2020☒ Approved☐ Approved with Attached Conditions of Approval☐ Denied☐ Deferral ApprovedSignature: Cristina EadsDate: 12/04/2020

Site Assessment Report and Proposed Remediation Workplan

Goodnight Midstream Permian, LLC Fenway SWD

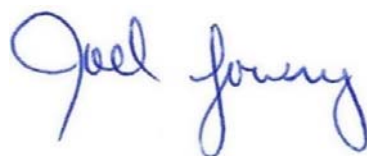
Lea County, New Mexico
Unit Letter E, Section 28, Township 21 South, Range 36 East
Latitude 32.450025 North, Longitude 103.275182 West
NMOCD Reference No. nRM2014755309

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260



Matthew Grieco



Joel W. Lowry



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this Report for the Release Site known as the Fenway SWD. Details of the release are summarized below:

Location of Release Source

Latitude: 32.450025 Longitude: -103.275182

Provided GPS are in WGS84 format.

Site Name:	Fenway SWD	Site Type:	SWD Facility
Date Release Discovered:	5/12/2020	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
E	28	21S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Dasco Cattle Co LLC)

Nature and Volume of Release

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 30	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	☒ Yes ☐ No ☐ N/A
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
A plug came loose at the H pump resulting to have produce water released, some of the water was contained inside the pumps berms, allowing some water to reach outside the berms as well.

Initial Response

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
☒ All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	~240 ft	
Did the release impact groundwater or surface water?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes	☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes	☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes	☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes	☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes	☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes	☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes	☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes	☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☐ Yes	☒ No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
~240 ft	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL SITE ASSESSMENT

During initial response activities heavily impacted soil was scraped and put in an impermeable liner pending transportation to an NMOCD-permitted disposal facility.

On May 13, 2020, upon conducting initial response activities, Premier Energy Services collected field soil samples. Seven (7) soil samples (1A @ 1"-3", 1B @ 1"-3", 1C @ 1"-3", 1D @ 1"-3", 1E @ 1"-3", 1F @ 1"-3", 1G @ 1"-3" and 1H @ 1"-3") were submitted to the laboratory for analysis of TPH and Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria with the exception of the area characterized by soil sample 1G @ 1"-3", which exhibited a chloride concentration of 22,200 mg/kg. Additional soil samples were not collected.

On July 28, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on laboratory analytical results, field observations and field test data, seventeen (17) delineation soil samples (NH @ Surface, NH @ 1', EH @ Surface, EH @ 1', EH2 @ Surface, EH2 @ 1', SH @ Surface, SH @ 1', WH @ Surface, WH @ 1', Sample 1A @ 1', Sample 1B @ 1', Sample 1C @ 1', Sample 1D @ 1', Sample 1F @ 1', Sample 1G @ 1', Sample 1H @ 1') were submitted to the laboratory for analysis of BTEX, TPH and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 1 ft. bgs in the area characterized by soil sample 1G @ 1"-3" and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the release margins. Impacted soil in the area characterized by sample point 1G will be excavated until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- Excavated material will be temporarily stockpiled atop an impermeable liner, then transported to an NMOCD-permitted disposal facility.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria and receiving laboratory analytical results from excavation confirmation soil samples, the excavated area will be backfilled with locally sourced, non-impacted "like" material.
- Upon completion of remediation activities, a Site Assessment Report and Soil Closure Request will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of one (1) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 200 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately 34 cubic yards is in need of removal.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Goodnight Midstream Permian, LLC.

10.0 DISTRIBUTION

Goodnight Midstream Permian, LLC

*5910 N Central Expy
Dallas, TX 75206*

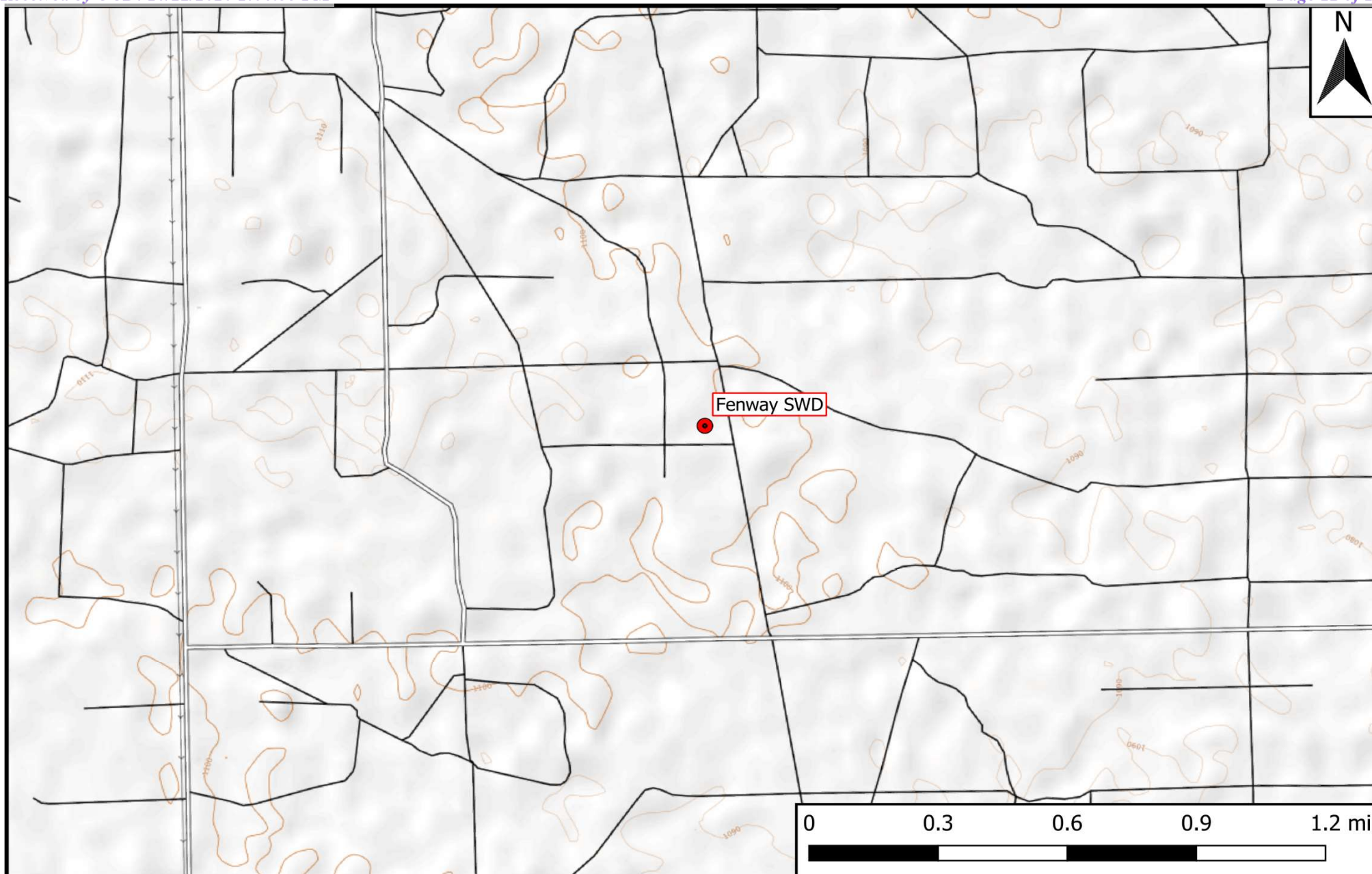
New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505*

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
Goodnight Midstream Permian, LLC
Fenway SWD
GPS: 32.450025, -103.275182
Lea County



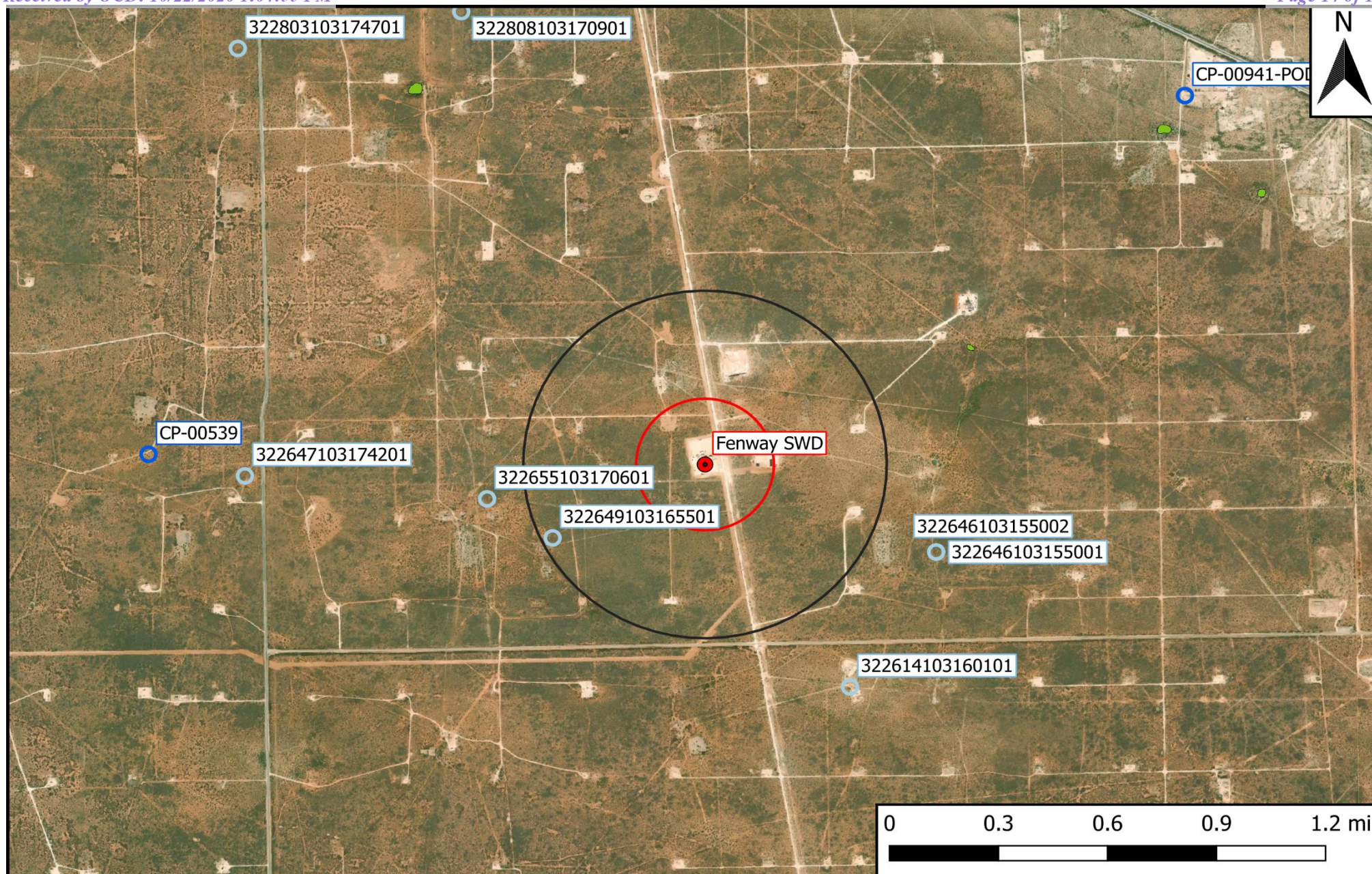
Drafted: mag

Checked: jwl

Date: 8/10/20

Figure 2

Aerial Proximity Map



Legend

- | | |
|--|--|
| ● Site Location | 0.5 Mi Radius |
| ○ Well - NMOSE | 1000 Ft Radius |
| ○ Well - USGS | 1% Annual Flood Chance |
| High Karst | Lake/Freshwater Pond |
| Potash Mine Workings | Emergent/Forested Wetlands |
| | Riverine |

Figure 2

Aerial Map
 Goodnight Midstream Permian, LLC
 Fenway SWD
 GPS: 32.450025, -103.275182
 Lea County



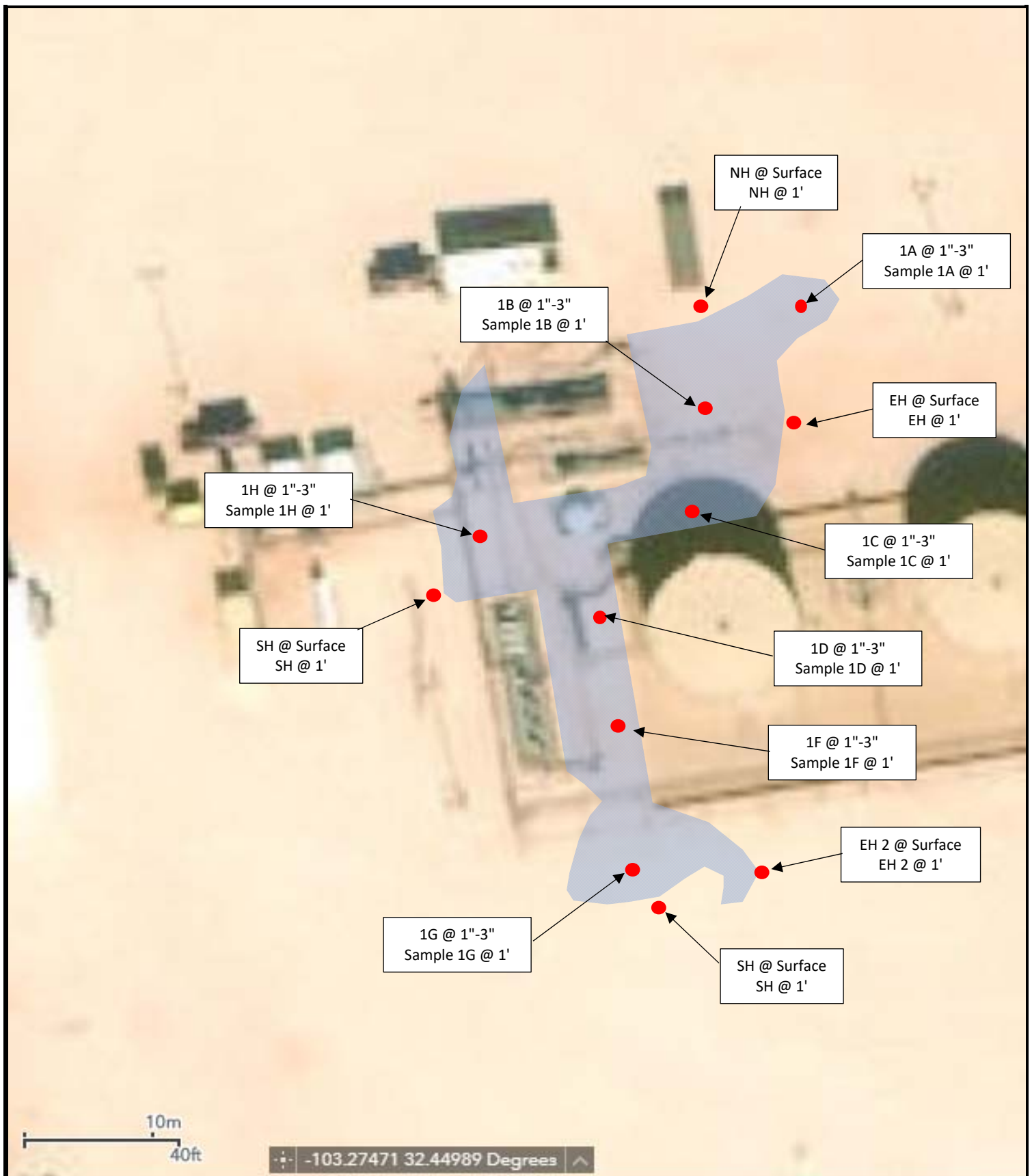
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Checked: jwl

Date: 8/13/20

Figure 3

Site and Sample Location Map

**Legend:**

- Sample Point
- Affected Area

Figure 3

Site and Sample Location Map
 Goodnight Midstream Permian, LLC
 Fenway SWD
 GPS: 32.450025, -103.275182
 Lea County



Drafted:

Checked: jwl

Date: 8/10/20

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Fenway SWD
NMOCD Ref. #: pending

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
1A @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<28.1	71.6	71.6	47.0	119	10,500
1B @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<28.1	32.7	32.7	37.5	70.3	9,360
1C @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<27.8	<27.8	<27.8	<27.8	<27.8	9,510
1D @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<28.7	<28.7	<28.7	<28.7	<28.7	11,200
1F @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<28.7	32.7	32.7	<28.7	32.7	11,500
1G @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<27.5	<27.5	<27.5	<27.5	<27.5	22,200
1H @ 1"-3"	5/13/2020	1"-3"	In-Situ	-	-	<29.8	<29.8	<29.8	<29.8	<29.8	11,500
NH @ Surface	7/28/2020	0'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	98.9
NH @ 1'	7/28/2020	1'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	14.5
EH @ Surface	7/28/2020	0'	In-Situ	<0.00198	0.00472	<49.8	<49.8	<49.8	<49.8	<49.8	152
EH @ 1'	7/28/2020	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	13.4
EH2 @ Surface	7/28/2020	0'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	47.3
EH2 @ 1'	7/28/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	12.2
SH @ Surface	7/28/2020	0'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	14.8
SH @ 1'	7/28/2020	1'	In-Situ	<0.00202	0.00470	<49.9	<49.9	<49.9	<49.9	<49.9	9.27
WH @ Surface	7/28/2020	0'	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	11.7
WH @ 1'	7/28/2020	1'	In-Situ	<0.00198	0.00239	<50.0	<50.0	<50.0	<50.0	<50.0	9.81
Sample 1A @1'	7/28/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	9.40
Sample 1B @1'	7/28/2020	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	223
Sample 1C @1'	7/28/2020	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	194
Sample 1D @1'	7/28/2020	1'	In-Situ	<0.00201	0.00460	<49.8	<49.8	<49.8	<49.8	<49.8	<4.99
Sample 1F @1'	7/28/2020	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	51.6
Sample 1G @1'	7/28/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	5.23
Sample 1H @1'	7/28/2020	1'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	29.1

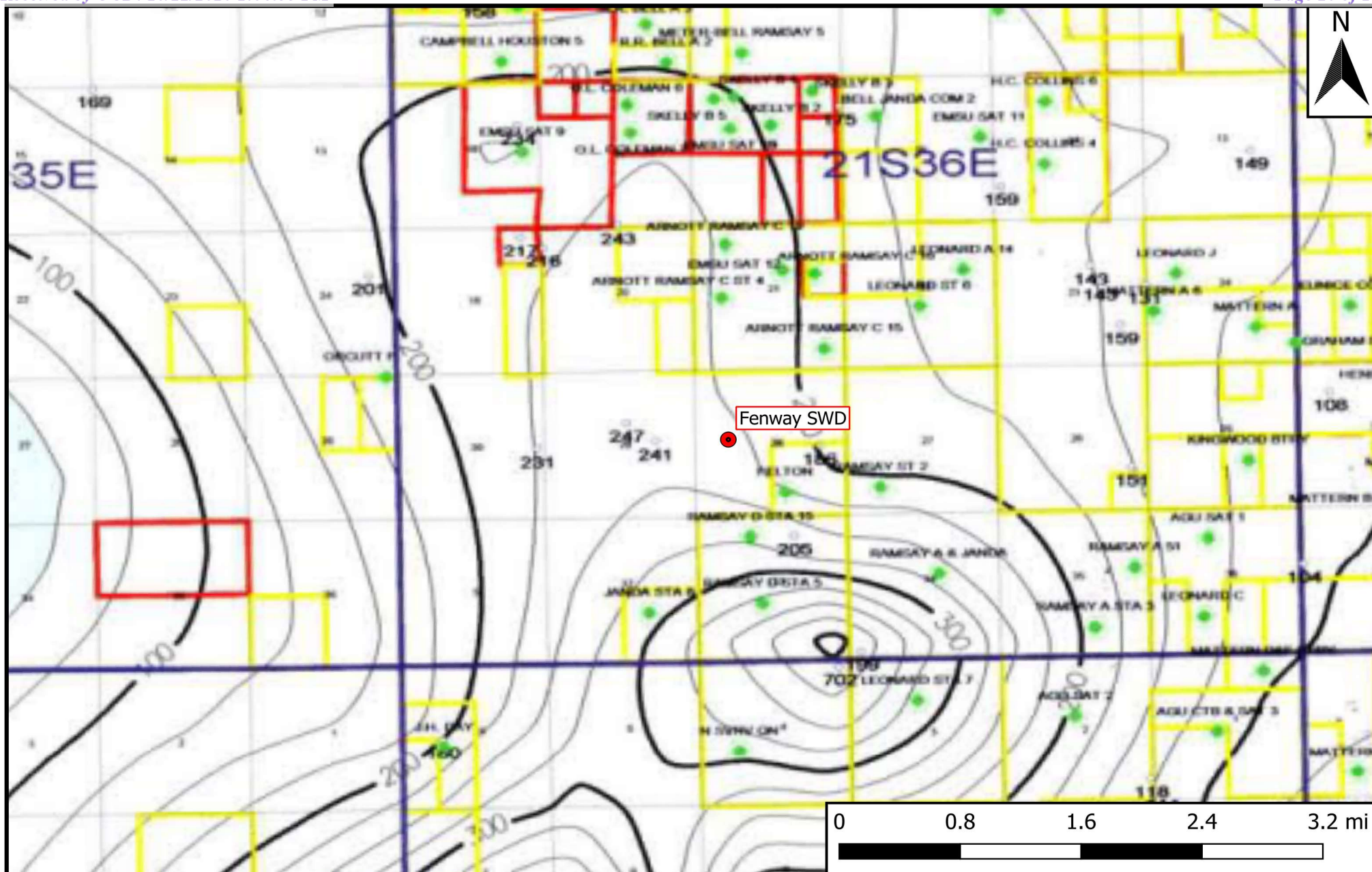
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend

● Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Goodnight Midstream Permian, LLC
 Fenway SWD
 GPS: 32.450025, -103.275182
 Lea County



Drafted: mag

Checked: jwl

Date: 8/10/20



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00539		CP	LE	4	3	2	30	21S	36E	659663	3591676*	2465	270	240	30
CP 00941 POD1		CP	LE		3	2	22	21S	36E	664254	3593330	2722	257		
CP 00281 POD1		CP	LE	3	1	1	20	21S	36E	660236	3593696*	2802	201		
CP 01485 POD1		CP	LE	4	4	3	17	21S	36E	660749	3594154	2877	305	246	59
CP 00727		CP	LE	1	3	2	05	22S	36E	661130	3588673*	3119	267	212	55
CP 00727 CLW475753	O	CP	LE	1	3	2	05	22S	36E	661130	3588673*	3119	228		

Average Depth to Water: **232 feet**

Minimum Depth: **212 feet**

Maximum Depth: **246 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 662127.98

Northing (Y): 3591628.98

Radius: 3220

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/13/20 11:12 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00281 POD1	3	1	1	20	21S	36E	660236	3593696*

x

Driller License:**Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 8.00**Depth Well:** 201 feet**Depth Water:**

x

*UTM location was derived from PLSS - see Help

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8/13/20 11:15 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP	00539	4	3	2	30	21S	36E	659663	3591676*

x

Driller License: 598 **Driller Company:** ROBINSON, ROSS L.**Driller Name:** ROBINSON, ROSS L.**Drill Start Date:** 09/01/1974**Drill Finish Date:** 05/09/1975**Plug Date:****Log File Date:** 05/12/1975**PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 5.63**Depth Well:** 270 feet**Depth Water:** 240 feet

x

Water Bearing Stratifications:

Top	Bottom	Description
90	100	Sandstone/Gravel/Conglomerate
245	268	Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top	Bottom
248	268

x

*UTM location was derived from PLSS - see Help

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8/13/20 11:15 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 00727	CLW475753	1	3	2	05	22S	36E	661130	3588673*



x

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: ABBOTT, MURRELL

Drill Start Date: 04/22/1988 **Drill Finish Date:** 04/26/1988 **Plug Date:** 04/27/1988

Log File Date: 04/28/1988 **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 12.75 **Depth Well:** 228 feet **Depth Water:**

x

*UTM location was derived from PLSS - see Help

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8/13/20 11:15 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 00727		1	3	2	05	22S	36E	661130	3588673*

x

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: ABBOTT, MURRELL

Drill Start Date: 05/12/1988

Drill Finish Date: 05/19/1988

Plug Date:
Log File Date: 06/06/1988

PCW Rcv Date:
Source: Shallow

Pump Type:
Pipe Discharge Size:
Estimated Yield:
Casing Size: 5.50

Depth Well: 267 feet

Depth Water: 212 feet

x

Water Bearing Stratifications:
Top Bottom Description

212 225 Sandstone/Gravel/Conglomerate

x

Casing Perforations:
Top Bottom

171 264

x

*UTM location was derived from PLSS - see Help

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8/13/20 11:15 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 00941	POD1	3	2	22	21S	36E		664254	3593330



x

Driller License: 1044 **Driller Company:** EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 10/12/2006

Drill Finish Date: 10/12/2006

Plug Date:

Log File Date: 11/02/2006

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 5.75

Depth Well: 257 feet

Depth Water:

x

Water Bearing Stratifications:

Top	Bottom	Description
-----	--------	-------------

128	231	Sandstone/Gravel/Conglomerate
-----	-----	-------------------------------

231	256	Sandstone/Gravel/Conglomerate
-----	-----	-------------------------------

x

Casing Perforations:

Top	Bottom
-----	--------

217	257
-----	-----

x

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
CP 01485	POD1	4 4 3 17 21S 36E	660749	3594154 

x

Driller License: 1626 **Driller Company:** TAYLOR, ROY ALLEN

Driller Name: TAYLOR, ROY A.

Drill Start Date: 04/06/2015

Drill Finish Date: 04/08/2015

Plug Date:

Log File Date: 04/20/2015

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 50 GPM

Casing Size: 5.14

Depth Well: 305 feet

Depth Water: 246 feet

x

Water Bearing Stratifications:

Top	Bottom	Description
-----	--------	-------------

220	285	Sandstone/Gravel/Conglomerate
-----	-----	-------------------------------

x

Casing Perforations:

Top	Bottom
-----	--------

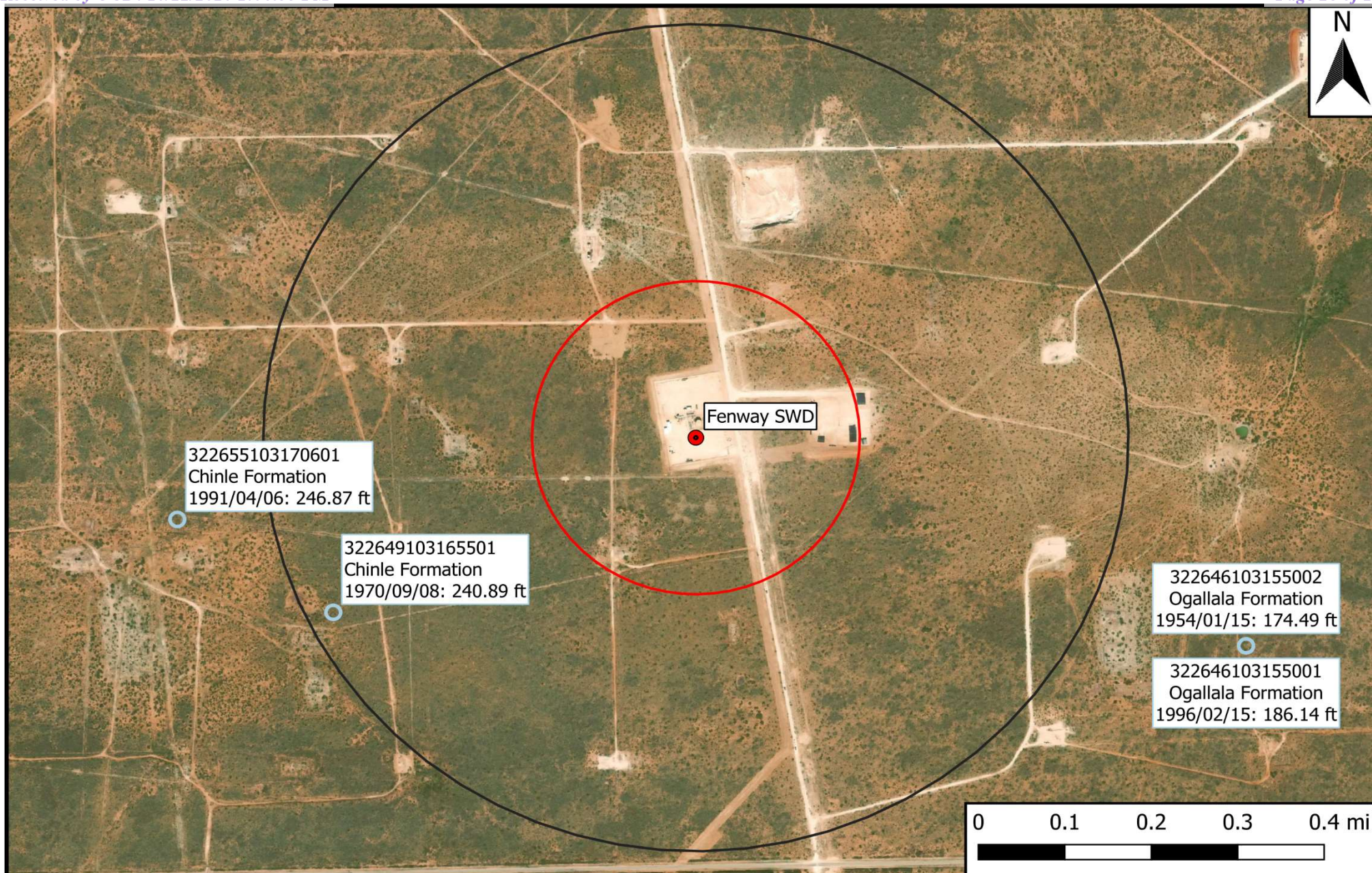
245	305
-----	-----

x

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/13/20 11:15 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5

USGS Well Proximity Map
 Goodnight Midstream Permian, LLC
 Fenway SWD
 GPS: 32.450025, -103.275182
 Lea County



Drafted: mag

Checked: jwl

Date: 8/10/20



National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322646103155001

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322646103155001 21S.36E.28.421213

Lea County, New Mexico
Latitude 32°26'46", Longitude 103°15'50" NAD27
Land-surface elevation 3,595 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status	
1965-11-05			D	187.27		2	R		U		U	A
1968-03-19			D	192.52		2	R		U		U	A
1970-12-11			D	190.44		2			U		U	A
1976-01-22			D	186.72		2			U		U	A
1981-03-04			D	186.69		2			U		U	A
1986-03-19			D	186.55		2			U		U	A
1991-04-16			D	186.35		2			U		U	A
1996-02-15			D	186.14		2			S		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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0.28 0.26 nadww01



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USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322646103155002

Minimum number of levels = 1
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USGS 322646103155002 21S.36E.28.421213A

Lea County, New Mexico
Latitude 32°26'46", Longitude 103°15'50" NAD27
Land-surface elevation 3,595 feet above NAVD88
The depth of the well is 197 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1954-01-15		D	174.49			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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National Water Information System: Web Interface

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Data Category:

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Agency code = usgs
site_no list =

- 322649103165501

Minimum number of levels = 1
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USGS 322649103165501 21S.36E.29.23444

Lea County, New Mexico
Latitude 32°26'49", Longitude 103°16'55" NAD27
Land-surface elevation 3,624 feet above NAVD88
The depth of the well is 380 feet below land surface.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-12-01		D	326.14			2		U		U	A
1970-09-08		D	240.89			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.28 0.27 nadww01



National Water Information System: Web Interface

USGS Water Resources

Data Category:

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Geographic Area:

United States

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Agency code = usgs
site_no list =

- 322655103170601

Minimum number of levels = 1
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USGS 322655103170601 21S.36E.29.23134

Lea County, New Mexico
Latitude 32°26'55", Longitude 103°17'06" NAD27
Land-surface elevation 3,635 feet above NAVD88
The depth of the well is 305 feet below land surface.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1970-09-08		D	248.38			2		U		U	A
1976-01-22		D	247.85			2		U		U	A
1981-03-04		D	247.34			2		U		U	A
1986-03-19		D	247.39			2		U		U	A
1991-04-06		D	246.87			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Appendix B

Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: Fenway SWD

Project Number: 12802

Clean Up Level:

Latitude: 32.450025

Date:

7/28/20
20,000 mg/kg Cl⁻, 2,500 mg/kg TPH

Longitude: -103.275182

Site Diagram

See printout for
Diagram / Locations @ Samples

Notes:

Sample 16 is the only area exceeding the
TCLL criteria.
Samples taken elsewhere for verification.

run around 16:

~Length: 30' ~Width: 50' ~Area: 900 sqft ~Depth: 1'

3-4 Representative Pictures of the Affected Area including sample locations?

Yes ☒ No ☐

Necessary Samples Field Screened and on Ice?

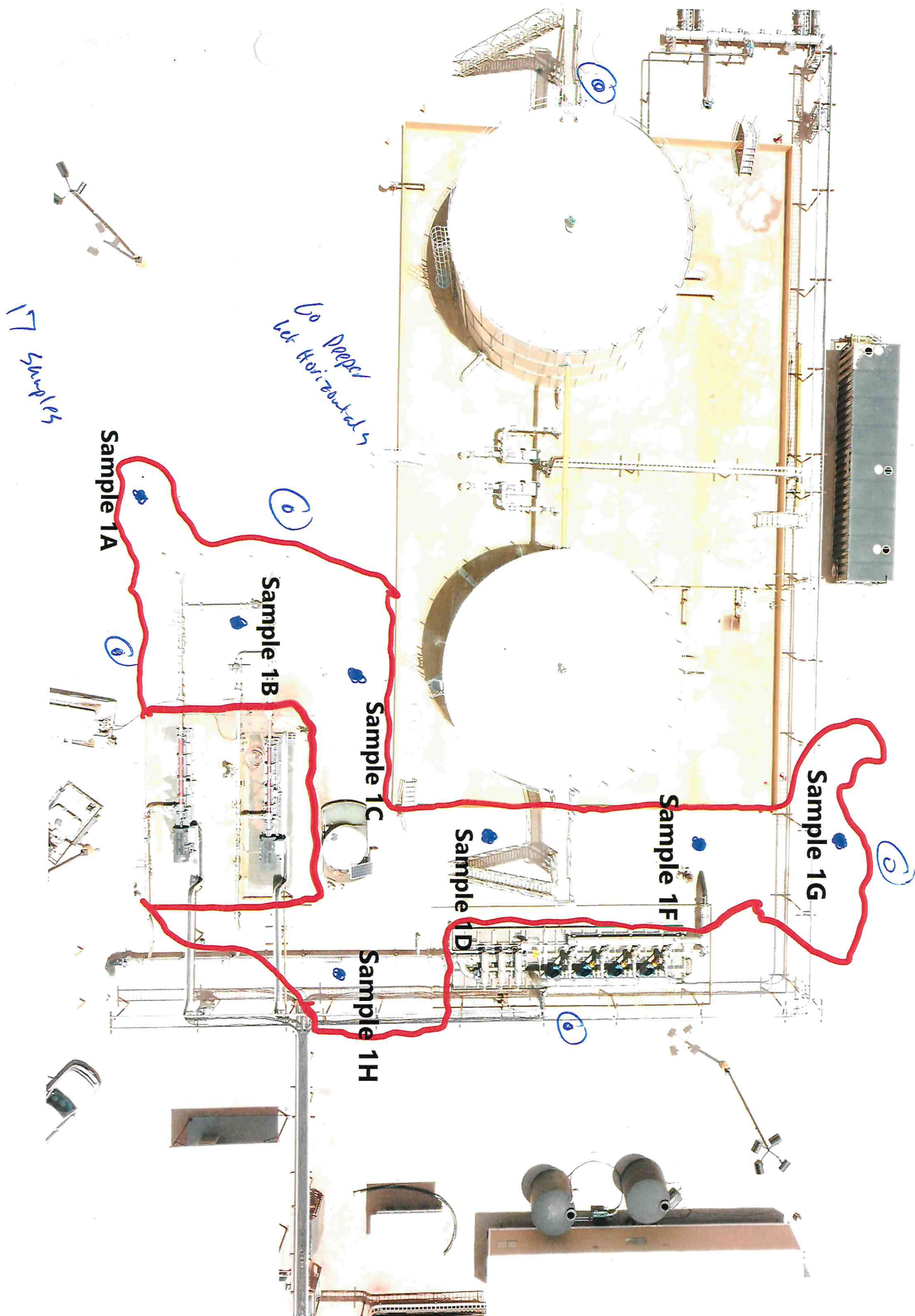
Yes ☒ No ☐

Sample and Field Screen Data Entered on Sample Log?

Yes ☒ No ☐

Was horizontal and vertical delineation achieved?

Yes ☒ No ☐



Sample Log

Date: 7.28.20

Project: Ferway SWD

Project Number: 12802

Latitude:

Longitude:

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: 7/28/20

Project: Fenway SWD

Project Number: 12802 Latitude: 32.450025 Longitude: -103.275182

Depth (ft. bgs)	Description
1	Caliche pad
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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40	

Appendix C

Laboratory Analytical Reports

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Revised Analytical Report

Prepared for:

Santos Montoya
Premier Energy Services
2815 W. Industrial Ave
Midland, TX 79701

Project: Fenway SWD
Project Number: [none]
Location: Fenway SWD
Lab Order Number: 0E14004



NELAP/TCEQ # T104704516-18-9

Report Date: 05/20/20

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1A @ 1"-3"	0E14004-01	Soil	05/13/20 10:55	05-14-2020 09:48
1B @ 1"-3"	0E14004-02	Soil	05/13/20 10:56	05-14-2020 09:48
1C @ 1"-3"	0E14004-03	Soil	05/13/20 10:58	05-14-2020 09:48
1D @ 1"-3"	0E14004-04	Soil	05/13/20 11:00	05-14-2020 09:48
1F @ 1"-3"	0E14004-05	Soil	05/13/20 11:02	05-14-2020 09:48
1G @ 1"-3"	0E14004-06	Soil	05/13/20 11:03	05-14-2020 09:48
1H @ 1"-3"	0E14004-07	Soil	05/13/20 11:05	05-14-2020 09:48

PBELAB was advised by the client to perform Chloride analysis on these samples. This revised report reflects these additions.

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1A @ 1'-3"
0E14004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

C6-C12	ND	28.1	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 13:13	TX 1005
>C12-C28	71.6	28.1	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 13:13	TX 1005
>C28-C35	47.0	28.1	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 13:13	TX 1005
Surrogate: 1-Chlorooctane		94.1	%	70-130	P0E1401	05/14/20 11:30	05/14/20 13:13	TX 1005
Surrogate: o-Terphenyl		102	%	70-130	P0E1401	05/14/20 11:30	05/14/20 13:13	TX 1005
Total Hydrocarbon nC6-nC35	119	28.1	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 13:13	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	10500	28.1	mg/kg dry	25	P0E1803	05/18/20 12:14	05/18/20 13:45	EPA 300.0
% Moisture	11.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1B @ 1"-3"**0E14004-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.**Organics by GC**

C6-C12	ND	28.1	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 13:34	TX 1005
>C12-C28	32.7	28.1	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 13:34	TX 1005
>C28-C35	37.5	28.1	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 13:34	TX 1005
Surrogate: 1-Chlorooctane		97.5 %		70-130	P0E1401	05/14/20 11:30	05/14/20 13:34	TX 1005
Surrogate: o-Terphenyl		104 %		70-130	P0E1401	05/14/20 11:30	05/14/20 13:34	TX 1005
Total Hydrocarbon nC6-nC35	70.3	28.1	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 13:34	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	9360	28.1	mg/kg dry	25	P0E1803	05/18/20 12:14	05/18/20 14:30	EPA 300.0
% Moisture	11.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1C @ 1"-3"
0E14004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

C6-C12	ND	27.8	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 14:40	TX 1005
>C12-C28	ND	27.8	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 14:40	TX 1005
>C28-C35	ND	27.8	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 14:40	TX 1005
Surrogate: 1-Chlorooctane		84.4	%	70-130	P0E1401	05/14/20 11:30	05/14/20 14:40	TX 1005
Surrogate: o-Terphenyl		90.0	%	70-130	P0E1401	05/14/20 11:30	05/14/20 14:40	TX 1005
Total Hydrocarbon nC6-nC35	ND	27.8	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 14:40	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	9510	27.8	mg/kg dry	25	P0E1803	05/18/20 12:14	05/18/20 14:45	EPA 300.0
% Moisture	10.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1D @ 1"-3"
0E14004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

C6-C12	ND	28.7	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 15:02	TX 1005
>C12-C28	ND	28.7	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 15:02	TX 1005
>C28-C35	ND	28.7	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 15:02	TX 1005
Surrogate: 1-Chlorooctane		90.1	%	70-130	P0E1401	05/14/20 11:30	05/14/20 15:02	TX 1005
Surrogate: o-Terphenyl		96.4	%	70-130	P0E1401	05/14/20 11:30	05/14/20 15:02	TX 1005
Total Hydrocarbon nC6-nC35	ND	28.7	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 15:02	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	11200	57.5	mg/kg dry	50	P0E1803	05/18/20 12:14	05/18/20 15:00	EPA 300.0
% Moisture	13.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1F @ 1"-3"**0E14004-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**Organics by GC**

C6-C12	ND	28.7	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 15:24	TX 1005
>C12-C28	32.7	28.7	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 15:24	TX 1005
>C28-C35	ND	28.7	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 15:24	TX 1005
Surrogate: 1-Chlorooctane		86.6 %	70-130		P0E1401	05/14/20 11:30	05/14/20 15:24	TX 1005
Surrogate: o-Terphenyl		92.2 %	70-130		P0E1401	05/14/20 11:30	05/14/20 15:24	TX 1005
Total Hydrocarbon nC6-nC35	32.7	28.7	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 15:24	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	11500	57.5	mg/kg dry	50	P0E1803	05/18/20 12:14	05/18/20 15:15	EPA 300.0
% Moisture	13.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1G @ 1"-3"
0E14004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

C6-C12	ND	27.5	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 17:14	TX 1005
>C12-C28	ND	27.5	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 17:14	TX 1005
>C28-C35	ND	27.5	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 17:14	TX 1005
Surrogate: 1-Chlorooctane		86.7 %	70-130		P0E1401	05/14/20 11:30	05/14/20 17:14	TX 1005
Surrogate: o-Terphenyl		92.4 %	70-130		P0E1401	05/14/20 11:30	05/14/20 17:14	TX 1005
Total Hydrocarbon nC6-nC35	ND	27.5	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 17:14	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	22200	54.9	mg/kg dry	50	P0E1803	05/18/20 12:14	05/18/20 15:30	EPA 300.0
% Moisture	9.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

1H @ 1"-3"
0E14004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

C6-C12	ND	29.8	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 17:36	TX 1005
>C12-C28	ND	29.8	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 17:36	TX 1005
>C28-C35	ND	29.8	mg/kg dry	1	P0E1401	05/14/20 11:30	05/14/20 17:36	TX 1005
Surrogate: 1-Chlorooctane		96.1	%	70-130	P0E1401	05/14/20 11:30	05/14/20 17:36	TX 1005
Surrogate: o-Terphenyl		104	%	70-130	P0E1401	05/14/20 11:30	05/14/20 17:36	TX 1005
Total Hydrocarbon nC6-nC35	ND	29.8	mg/kg dry	1	[CALC]	05/14/20 11:30	05/14/20 17:36	[CALC]

General Chemistry Parameters by EPA / Standard Methods

Chloride	11500	29.8	mg/kg dry	25	P0E1803	05/18/20 12:14	05/18/20 15:45	EPA 300.0
% Moisture	16.0	0.1	%	1	P0E1501	05/15/20 08:21	05/15/20 08:22	ASTM D2216

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0E1401 - TX 1005**Blank (P0E1401-BLK1)**

Prepared & Analyzed: 05/14/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.4		"	100		89.4	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.1	70-130			

LCS (P0E1401-BS1)

Prepared & Analyzed: 05/14/20

C6-C12	954	25.0	mg/kg wet	1000		95.4	75-125			
>C12-C28	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	45.1		"	50.0		90.3	70-130			

LCS Dup (P0E1401-BSD1)

Prepared & Analyzed: 05/14/20

C6-C12	972	25.0	mg/kg wet	1000		97.2	75-125	1.93	20	
>C12-C28	1010	25.0	"	1000		101	75-125	0.734	20	
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	46.1		"	50.0		92.1	70-130			

Calibration Blank (P0E1401-CCB1)

Prepared & Analyzed: 05/14/20

C6-C12	7.39		mg/kg wet							
>C12-C28	8.17		"							
Surrogate: 1-Chlorooctane	87.9		"	100		87.9	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.0	70-130			

Calibration Blank (P0E1401-CCB2)

Prepared & Analyzed: 05/14/20

C6-C12	9.71		mg/kg wet							
>C12-C28	13.6		"							
Surrogate: 1-Chlorooctane	91.4		"	100		91.4	70-130			
Surrogate: o-Terphenyl	46.9		"	50.0		93.9	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0E1401 - TX 1005

Calibration Check (P0E1401-CCV1)

Prepared & Analyzed: 05/14/20

C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	97.3		"	100		97.3	70-130			
Surrogate: o-Terphenyl	44.0		"	50.0		88.0	70-130			

Calibration Check (P0E1401-CCV2)

Prepared & Analyzed: 05/14/20

C6-C12	527	25.0	mg/kg wet	500		105	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.0	70-130			

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0E1501 - * DEFAULT PREP *******Blank (P0E1501-BLK1)**

Prepared & Analyzed: 05/15/20

% Moisture	ND	0.1	%							
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Duplicate (P0E1501-DUP1)

Source: 0E14005-15

Prepared & Analyzed: 05/15/20

% Moisture	1.0	0.1	%		2.0			66.7	20	R3
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Batch P0E1803 - * DEFAULT PREP *******Blank (P0E1803-BLK1)**

Prepared & Analyzed: 05/18/20

Chloride	ND	0.100	mg/kg wet							
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LCS (P0E1803-BS1)

Prepared & Analyzed: 05/18/20

Chloride	401	1.00	mg/kg wet	400		100	80-120			
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LCS Dup (P0E1803-BSD1)

Prepared & Analyzed: 05/18/20

Chloride	401	1.00	mg/kg wet	400		100	80-120	0.0175	20	
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Calibration Blank (P0E1803-CCB1)

Prepared & Analyzed: 05/18/20

Chloride	0.00		mg/kg wet							
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Calibration Check (P0E1803-CCV1)

Prepared & Analyzed: 05/18/20

Chloride	20.1		mg/kg	20.0		100	0-200			
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Calibration Check (P0E1803-CCV2)

Prepared & Analyzed: 05/18/20

Chloride	20.2		mg/kg	20.0		101	0-200			
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Matrix Spike (P0E1803-MS1)

Source: 0E14004-01

Prepared & Analyzed: 05/18/20

Chloride	13400	28.1	mg/kg dry	2810	10500	105	80-120			
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Premier Energy Services	Project: Fenway SWD	Fax:
2815 W. Industrial Ave	Project Number: [none]	
Midland TX, 79701	Project Manager: Santos Montoya	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0E1803 - *** DEFAULT PREP ***

Matrix Spike Dup (P0E1803-MSD1)	Source: 0E14004-01			Prepared & Analyzed: 05/18/20						
Chloride	13100	28.1	mg/kg dry	2810	10500	93.9	80-120	2.40	20	

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Fenway SWD
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Notes and Definitions

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

5/20/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Fennel Seed

0000-0001-9876-441X

1

Fax No:

NPDES

e-mail: Shontona@AraucariaEnergyAb.com

ORDER # 0514004

mybb.com

Analyze Error

2 hrs

ZZZZ



Certificate of Analysis Summary 668758

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Fenway SWD

Project Id: 12802
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Fri 07.31.2020 11:00
Report Date: 08.06.2020 10:40
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668758-001	668758-002	668758-003	668758-004	668758-005	668758-006
	<i>Field Id:</i>	NH @ Surface	NH @ 1'	EH @ Surface	EH @ 1'	EH2 @ Surface	EH2 @ 1'
	<i>Depth:</i>		1- ft		1- ft		1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00
	<i>Analyzed:</i>	08.05.2020 23:32	08.05.2020 23:52	08.06.2020 00:13	08.06.2020 00:33	08.06.2020 00:54	08.06.2020 01:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	0.00230 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	0.00242 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00396 0.00396	<0.00399 0.00399	<0.00399 0.00399	<0.00400 0.00400
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	0.00472 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00
	<i>Analyzed:</i>	07.31.2020 16:42	07.31.2020 16:47	07.31.2020 17:03	07.31.2020 17:08	07.31.2020 17:24	07.31.2020 17:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		98.9 5.00	14.5 5.02	152 4.99	13.4 4.96	47.3 5.02	12.2 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00
	<i>Analyzed:</i>	08.01.2020 17:26	08.01.2020 17:47	08.01.2020 18:08	08.01.2020 18:29	08.01.2020 18:50	08.01.2020 19:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 668758

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Fenway SWD

Project Id: 12802
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Fri 07.31.2020 11:00
Report Date: 08.06.2020 10:40
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668758-007	668758-008	668758-009	668758-010	668758-011	668758-012
	<i>Field Id:</i>	SH @ Surface	SH @ 1'	WH @ Surface	WH @ 1'	Sample 1A @1'	Sample 1B @1'
	<i>Depth:</i>		1- ft		1- ft	1- ft	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00
	<i>Analyzed:</i>	08.06.2020 01:35	08.06.2020 02:57	08.06.2020 03:18	08.06.2020 03:38	08.06.2020 03:58	08.06.2020 04:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00200 0.00200	0.00266 0.00202	<0.00201 0.00201	0.00239 0.00198	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	0.00204 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00399 0.00399	<0.00403 0.00403	<0.00402 0.00402	<0.00397 0.00397	<0.00399 0.00399	<0.00404 0.00404
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	0.00470 0.00202	<0.00201 0.00201	0.00239 0.00198	<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 15:00	07.31.2020 17:30
	<i>Analyzed:</i>	07.31.2020 17:35	07.31.2020 17:40	07.31.2020 17:45	07.31.2020 17:51	07.31.2020 17:56	07.31.2020 18:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14.8 4.99	9.27 5.00	11.7 5.00	9.81 5.00	9.40 5.04	223 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00
	<i>Analyzed:</i>	08.01.2020 19:33	08.01.2020 20:15	08.01.2020 20:36	08.01.2020 20:57	08.01.2020 21:18	08.01.2020 21:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 668758

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Fenway SWD

Project Id: 12802
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Fri 07.31.2020 11:00
Report Date: 08.06.2020 10:40
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668758-013	668758-014	668758-015	668758-016	668758-017	
	<i>Field Id:</i>	Sample 1C @1'	Sample 1D @1'	Sample 1F @1'	Sample 1G @1'	Sample 1H @1'	
	<i>Depth:</i>	1- ft	1- ft	1- ft	1- ft	1- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	07.28.2020 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	08.05.2020 16:00	
	<i>Analyzed:</i>	08.06.2020 04:40	08.06.2020 05:00	08.06.2020 05:20	08.06.2020 05:41	08.06.2020 06:01	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	
Toluene		<0.00200 0.00200	0.00259 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	
Ethylbenzene		<0.00200 0.00200	0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398	<0.00402 0.00402	
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	
Total BTEX		<0.00200 0.00200	0.00460 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	
Chloride by EPA 300	<i>Extracted:</i>	07.31.2020 17:30	07.31.2020 17:30	07.31.2020 17:30	07.31.2020 17:30	07.31.2020 17:30	
	<i>Analyzed:</i>	07.31.2020 18:52	07.31.2020 18:58	07.31.2020 19:05	07.31.2020 19:11	07.31.2020 19:30	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		194 5.02	<4.99 4.99	51.6 4.96	5.23 5.02	29.1 4.99	
TPH By SW8015 Mod	<i>Extracted:</i>	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	08.01.2020 11:00	
	<i>Analyzed:</i>	08.01.2020 21:59	08.01.2020 22:20	08.01.2020 22:41	08.01.2020 23:02	08.01.2020 23:23	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Analytical Report 668758

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Fenway SWD

12802

08.06.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.06.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **668758**

Fenway SWD

Project Address: Lea County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668758. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668758 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 668758

Etech Environmental & Safety Solution, Inc, Midland, TX

Fenway SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH @ Surface	S	07.28.2020 00:00		668758-001
NH @ 1'	S	07.28.2020 00:00	1 ft	668758-002
EH @ Surface	S	07.28.2020 00:00		668758-003
EH @ 1'	S	07.28.2020 00:00	1 ft	668758-004
EH2 @ Surface	S	07.28.2020 00:00		668758-005
EH2 @ 1'	S	07.28.2020 00:00	1 ft	668758-006
SH @ Surface	S	07.28.2020 00:00		668758-007
SH @ 1'	S	07.28.2020 00:00	1 ft	668758-008
WH @ Surface	S	07.28.2020 00:00		668758-009
WH @ 1'	S	07.28.2020 00:00	1 ft	668758-010
Sample 1A @1'	S	07.28.2020 00:00	1 ft	668758-011
Sample 1B @1'	S	07.28.2020 00:00	1 ft	668758-012
Sample 1C @1'	S	07.28.2020 00:00	1 ft	668758-013
Sample 1D @1'	S	07.28.2020 00:00	1 ft	668758-014
Sample 1F @1'	S	07.28.2020 00:00	1 ft	668758-015
Sample 1G @1'	S	07.28.2020 00:00	1 ft	668758-016
Sample 1H @1'	S	07.28.2020 00:00	1 ft	668758-017



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Fenway SWD

Project ID: 12802
Work Order Number(s): 668758

Report Date: 08.06.2020
Date Received: 07.31.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133691 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 668758-001,668758-002,668758-003,668758-007,668758-010,668758-016,668758-012,668758-013,668758-014,668758-015,668758-011.



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **NH @ Surface** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-001 Date Collected: 07.28.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	98.9	5.00	mg/kg	07.31.2020 16:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 17:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 17:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 17:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	08.01.2020 17:26	
o-Terphenyl	84-15-1	99	%	70-130	08.01.2020 17:26	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **NH @ Surface**

Matrix: Soil

Date Received: 07.31.2020 11:00

Lab Sample Id: 668758-001

Date Collected: 07.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.05.2020 16:00

Basis: Wet Weight

Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.05.2020 23:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.05.2020 23:32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.05.2020 23:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.05.2020 23:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.05.2020 23:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.05.2020 23:32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.05.2020 23:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	140	%	70-130	08.05.2020 23:32	**	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.05.2020 23:32		



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **NH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-002 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.5	5.02	mg/kg	07.31.2020 16:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.01.2020 17:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.01.2020 17:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.01.2020 17:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.01.2020 17:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	08.01.2020 17:47	
o-Terphenyl	84-15-1	106	%	70-130	08.01.2020 17:47	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **NH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-002 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.05.2020 23:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.05.2020 23:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.05.2020 23:52	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.05.2020 23:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.05.2020 23:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.05.2020 23:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.05.2020 23:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.05.2020 23:52		
4-Bromofluorobenzene	460-00-4	135	%	70-130	08.05.2020 23:52	**	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH @ Surface** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-003 Date Collected: 07.28.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	152	4.99	mg/kg	07.31.2020 17:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.01.2020 18:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.01.2020 18:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.01.2020 18:08	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.01.2020 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	08.01.2020 18:08	
o-Terphenyl	84-15-1	100	%	70-130	08.01.2020 18:08	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH @ Surface**

Matrix: Soil

Date Received: 07.31.2020 11:00

Lab Sample Id: 668758-003

Date Collected: 07.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.05.2020 16:00

Basis: Wet Weight

Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.06.2020 00:13	U	1
Toluene	108-88-3	0.00230	0.00198	mg/kg	08.06.2020 00:13		1
Ethylbenzene	100-41-4	0.00242	0.00198	mg/kg	08.06.2020 00:13		1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.06.2020 00:13	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.06.2020 00:13	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.06.2020 00:13	U	1
Total BTEX		0.00472	0.00198	mg/kg	08.06.2020 00:13		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.06.2020 00:13		
4-Bromofluorobenzene	460-00-4	131	%	70-130	08.06.2020 00:13	**	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-004 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.4	4.96	mg/kg	07.31.2020 17:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.01.2020 18:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.01.2020 18:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.01.2020 18:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.01.2020 18:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	08.01.2020 18:29	
o-Terphenyl	84-15-1	99	%	70-130	08.01.2020 18:29	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-004 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.06.2020 00:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.06.2020 00:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.06.2020 00:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.06.2020 00:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.06.2020 00:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.06.2020 00:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.06.2020 00:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.06.2020 00:33	
4-Bromofluorobenzene	460-00-4	129	%	70-130	08.06.2020 00:33	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH2 @ Surface** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-005 Date Collected: 07.28.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.3	5.02	mg/kg	07.31.2020 17:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.01.2020 18:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.01.2020 18:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.01.2020 18:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.01.2020 18:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	08.01.2020 18:50	
o-Terphenyl	84-15-1	107	%	70-130	08.01.2020 18:50	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH2 @ Surface**

Matrix: Soil

Date Received: 07.31.2020 11:00

Lab Sample Id: 668758-005

Date Collected: 07.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.05.2020 16:00

Basis: Wet Weight

Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.06.2020 00:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.06.2020 00:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.06.2020 00:54	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.06.2020 00:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.06.2020 00:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.06.2020 00:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.06.2020 00:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.06.2020 00:54		
4-Bromofluorobenzene	460-00-4	124	%	70-130	08.06.2020 00:54		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH2 @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-006 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.2	4.95	mg/kg	07.31.2020 17:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 19:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	08.01.2020 19:12	
o-Terphenyl	84-15-1	102	%	70-130	08.01.2020 19:12	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **EH2 @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-006 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.06.2020 01:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.06.2020 01:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.06.2020 01:14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.06.2020 01:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.06.2020 01:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.06.2020 01:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.06.2020 01:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.06.2020 01:14		
4-Bromofluorobenzene	460-00-4	127	%	70-130	08.06.2020 01:14		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **SH @ Surface** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-007 Date Collected: 07.28.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.8	4.99	mg/kg	07.31.2020 17:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 19:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 19:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 19:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 19:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	08.01.2020 19:33	
o-Terphenyl	84-15-1	99	%	70-130	08.01.2020 19:33	



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **SH @ Surface**

Matrix: Soil

Date Received: 07.31.2020 11:00

Lab Sample Id: 668758-007

Date Collected: 07.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.05.2020 16:00

Basis: Wet Weight

Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.06.2020 01:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.06.2020 01:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.06.2020 01:35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.06.2020 01:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.06.2020 01:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.06.2020 01:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.06.2020 01:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	137	%	70-130	08.06.2020 01:35	**	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.06.2020 01:35		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **SH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-008 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.27	5.00	mg/kg	07.31.2020 17:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.01.2020 20:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.01.2020 20:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.01.2020 20:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.01.2020 20:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	08.01.2020 20:15	
o-Terphenyl	84-15-1	103	%	70-130	08.01.2020 20:15	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **SH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-008 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.06.2020 02:57	U	1
Toluene	108-88-3	0.00266	0.00202	mg/kg	08.06.2020 02:57		1
Ethylbenzene	100-41-4	0.00204	0.00202	mg/kg	08.06.2020 02:57		1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.06.2020 02:57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.06.2020 02:57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.06.2020 02:57	U	1
Total BTEX		0.00470	0.00202	mg/kg	08.06.2020 02:57		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.06.2020 02:57		
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.06.2020 02:57		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **WH @ Surface** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-009 Date Collected: 07.28.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.7	5.00	mg/kg	07.31.2020 17:45		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.01.2020 20:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.01.2020 20:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.01.2020 20:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.01.2020 20:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	08.01.2020 20:36	
o-Terphenyl	84-15-1	103	%	70-130	08.01.2020 20:36	



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **WH @ Surface**

Matrix: Soil

Date Received: 07.31.2020 11:00

Lab Sample Id: 668758-009

Date Collected: 07.28.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.05.2020 16:00

Basis: Wet Weight

Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.06.2020 03:18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.06.2020 03:18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.06.2020 03:18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.06.2020 03:18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.06.2020 03:18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.06.2020 03:18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.06.2020 03:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.06.2020 03:18		
4-Bromofluorobenzene	460-00-4	128	%	70-130	08.06.2020 03:18		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **WH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-010 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.81	5.00	mg/kg	07.31.2020 17:51		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 20:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 20:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 20:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 20:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	08.01.2020 20:57	
o-Terphenyl	84-15-1	102	%	70-130	08.01.2020 20:57	



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **WH @ 1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-010 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.06.2020 03:38	U	1
Toluene	108-88-3	0.00239	0.00198	mg/kg	08.06.2020 03:38		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.06.2020 03:38	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.06.2020 03:38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.06.2020 03:38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.06.2020 03:38	U	1
Total BTEX		0.00239	0.00198	mg/kg	08.06.2020 03:38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.06.2020 03:38		
4-Bromofluorobenzene	460-00-4	131	%	70-130	08.06.2020 03:38	**	



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1A @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-011 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 15:00 Basis: Wet Weight
 Seq Number: 3133292

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.40	5.04	mg/kg	07.31.2020 17:56		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 21:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 21:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 21:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	08.01.2020 21:18	
o-Terphenyl	84-15-1	107	%	70-130	08.01.2020 21:18	



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1A @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-011 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.06.2020 03:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.06.2020 03:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.06.2020 03:58	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.06.2020 03:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.06.2020 03:58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.06.2020 03:58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.06.2020 03:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	150	%	70-130	08.06.2020 03:58	**	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.06.2020 03:58		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1B @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-012 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 17:30 Basis: Wet Weight
 Seq Number: 3133294

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	223	5.00	mg/kg	07.31.2020 18:33		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 21:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 21:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 21:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 21:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	08.01.2020 21:39	
o-Terphenyl	84-15-1	106	%	70-130	08.01.2020 21:39	



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1B @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-012 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.06.2020 04:19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.06.2020 04:19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.06.2020 04:19	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.06.2020 04:19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.06.2020 04:19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.06.2020 04:19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.06.2020 04:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	144	%	70-130	08.06.2020 04:19	**	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.06.2020 04:19		



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Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1C @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-013 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 17:30 Basis: Wet Weight
 Seq Number: 3133294

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	194	5.02	mg/kg	07.31.2020 18:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.01.2020 21:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.01.2020 21:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.01.2020 21:59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.01.2020 21:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	08.01.2020 21:59	
o-Terphenyl	84-15-1	107	%	70-130	08.01.2020 21:59	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1C @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-013 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.06.2020 04:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.06.2020 04:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.06.2020 04:40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.06.2020 04:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.06.2020 04:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.06.2020 04:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.06.2020 04:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.06.2020 04:40		
4-Bromofluorobenzene	460-00-4	149	%	70-130	08.06.2020 04:40	**	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1D @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-014 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 17:30 Basis: Wet Weight
 Seq Number: 3133294

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	07.31.2020 18:58	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.01.2020 22:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.01.2020 22:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.01.2020 22:20	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.01.2020 22:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	08.01.2020 22:20	
o-Terphenyl	84-15-1	104	%	70-130	08.01.2020 22:20	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1D @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-014 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.06.2020 05:00	U	1
Toluene	108-88-3	0.00259	0.00201	mg/kg	08.06.2020 05:00		1
Ethylbenzene	100-41-4	0.00201	0.00201	mg/kg	08.06.2020 05:00		1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.06.2020 05:00	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.06.2020 05:00	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.06.2020 05:00	U	1
Total BTEX		0.00460	0.00201	mg/kg	08.06.2020 05:00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	133	%	70-130	08.06.2020 05:00	**	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.06.2020 05:00		



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1F @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-015 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 17:30 Basis: Wet Weight
 Seq Number: 3133294

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.6	4.96	mg/kg	07.31.2020 19:05		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 22:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 22:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 22:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 22:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	08.01.2020 22:41	
o-Terphenyl	84-15-1	107	%	70-130	08.01.2020 22:41	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1F @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-015 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.06.2020 05:20	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.06.2020 05:20	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.06.2020 05:20	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.06.2020 05:20	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.06.2020 05:20	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.06.2020 05:20	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.06.2020 05:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.06.2020 05:20		
4-Bromofluorobenzene	460-00-4	154	%	70-130	08.06.2020 05:20	**	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1G @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-016 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 17:30 Basis: Wet Weight
 Seq Number: 3133294

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.23	5.02	mg/kg	07.31.2020 19:11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.01.2020 23:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.01.2020 23:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.01.2020 23:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.01.2020 23:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	08.01.2020 23:02	
o-Terphenyl	84-15-1	104	%	70-130	08.01.2020 23:02	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1G @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-016 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.06.2020 05:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.06.2020 05:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.06.2020 05:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.06.2020 05:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.06.2020 05:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.06.2020 05:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.06.2020 05:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	144	%	70-130	08.06.2020 05:41	**	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.06.2020 05:41		



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1H @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-017 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.31.2020 17:30 Basis: Wet Weight
 Seq Number: 3133294

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.1	4.99	mg/kg	07.31.2020 19:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3133327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.01.2020 23:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.01.2020 23:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.01.2020 23:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.01.2020 23:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.01.2020 23:23	
o-Terphenyl	84-15-1	107	%	70-130	08.01.2020 23:23	



Certificate of Analytical Results 668758

Etech Environmental & Safety Solution, Inc, Midland, TX Fenway SWD

Sample Id: **Sample 1H @1'** Matrix: Soil Date Received: 07.31.2020 11:00
 Lab Sample Id: 668758-017 Date Collected: 07.28.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3133691

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.06.2020 06:01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.06.2020 06:01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.06.2020 06:01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.06.2020 06:01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.06.2020 06:01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.06.2020 06:01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.06.2020 06:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	08.06.2020 06:01		
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.06.2020 06:01		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Etech Environmental & Safety Solution, Inc

Fenway SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3133292

MB Sample Id: 7708499-1-BLK

Matrix: Solid

LCS Sample Id: 7708499-1-BKS

Prep Method: E300P

Date Prep: 07.31.2020

LCSD Sample Id: 7708499-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	258	103	90-110	3	20	mg/kg	07.31.2020 15:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3133294

MB Sample Id: 7708554-1-BLK

Matrix: Solid

LCS Sample Id: 7708554-1-BKS

Prep Method: E300P

Date Prep: 07.31.2020

LCSD Sample Id: 7708554-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	07.31.2020 18:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3133292

Parent Sample Id: 668639-003

Matrix: Soil

MS Sample Id: 668639-003 S

Prep Method: E300P

Date Prep: 07.31.2020

MSD Sample Id: 668639-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	682	252	903	88	907	89	90-110	0	20	mg/kg	07.31.2020 15:39	X

Analytical Method: Chloride by EPA 300

Seq Number: 3133292

Parent Sample Id: 668758-002

Matrix: Soil

MS Sample Id: 668758-002 S

Prep Method: E300P

Date Prep: 07.31.2020

MSD Sample Id: 668758-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.5	251	289	109	288	109	90-110	0	20	mg/kg	07.31.2020 16:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3133294

Parent Sample Id: 668758-012

Matrix: Soil

MS Sample Id: 668758-012 S

Prep Method: E300P

Date Prep: 07.31.2020

MSD Sample Id: 668758-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	223	250	462	96	462	96	90-110	0	20	mg/kg	07.31.2020 18:39	

Analytical Method: Chloride by EPA 300

Seq Number: 3133294

Parent Sample Id: 668767-005

Matrix: Soil

MS Sample Id: 668767-005 S

Prep Method: E300P

Date Prep: 07.31.2020

MSD Sample Id: 668767-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1150	1250	2360	97	2350	96	90-110	0	20	mg/kg	07.31.2020 20:08	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Etech Environmental & Safety Solution, Inc

Fenway SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3133327

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.01.2020

MB Sample Id: 7708575-1-BLK

LCS Sample Id: 7708575-1-BKS

LCSD Sample Id: 7708575-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	895	90	849	85	70-130	5	20	mg/kg	08.01.2020 14:58	
Diesel Range Organics (DRO)	<50.0	1000	940	94	898	90	70-130	5	20	mg/kg	08.01.2020 14:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		111		107		70-130	%	08.01.2020 14:58
o-Terphenyl	94		109		103		70-130	%	08.01.2020 14:58

Analytical Method: TPH By SW8015 Mod

Seq Number: 3133327

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.01.2020

MB Sample Id: 7708575-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.01.2020 14:36	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3133327

Matrix: Soil

Prep Method: SW8015P

Date Prep: 08.01.2020

Parent Sample Id: 668757-001

MS Sample Id: 668757-001 S

MSD Sample Id: 668757-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	811	81	819	82	70-130	1	20	mg/kg	08.01.2020 16:01	
Diesel Range Organics (DRO)	<49.9	998	834	84	850	85	70-130	2	20	mg/kg	08.01.2020 16:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		111		70-130	%	08.01.2020 16:01
o-Terphenyl	107		106		70-130	%	08.01.2020 16:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133691

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.05.2020

MB Sample Id: 7708814-1-BLK

LCS Sample Id: 7708814-1-BKS

LCSD Sample Id: 7708814-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0835	84	0.0819	82	70-130	2	35	mg/kg	08.05.2020 20:08	
Toluene	<0.00200	0.100	0.0905	91	0.0904	90	70-130	0	35	mg/kg	08.05.2020 20:08	
Ethylbenzene	<0.00200	0.100	0.0982	98	0.0981	98	70-130	0	35	mg/kg	08.05.2020 20:08	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.198	99	70-130	1	35	mg/kg	08.05.2020 20:08	
o-Xylene	<0.00200	0.100	0.0971	97	0.0970	97	70-130	0	35	mg/kg	08.05.2020 20:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		93		92		70-130	%	08.05.2020 20:08
4-Bromofluorobenzene	111		116		117		70-130	%	08.05.2020 20:08

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Etech Environmental & Safety Solution, Inc

Fenway SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133691

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.05.2020

Parent Sample Id: 668757-001

MS Sample Id: 668757-001 S

MSD Sample Id: 668757-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0626	63	0.0664	67	70-130	6	35	mg/kg	08.05.2020 20:49	X
Toluene	<0.00201	0.100	0.0615	62	0.0675	68	70-130	9	35	mg/kg	08.05.2020 20:49	X
Ethylbenzene	<0.00201	0.100	0.0602	60	0.0679	68	70-130	12	35	mg/kg	08.05.2020 20:49	X
m,p-Xylenes	<0.00402	0.201	0.118	59	0.134	68	70-130	13	35	mg/kg	08.05.2020 20:49	X
o-Xylene	<0.00201	0.100	0.0578	58	0.0655	66	70-130	12	35	mg/kg	08.05.2020 20:49	X

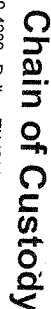
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		70-130	%	08.05.2020 20:49
4-Bromofluorobenzene	110		120		70-130	%	08.05.2020 20:49

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Work Order No.:

1068758

Final 1.000



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (904) 756-0747, Delray Beach, FL (561) 688-6701
 Atlanta, GA (770) 449-8800

Work Order No:

1048758

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Page

2 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elect Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Longtown, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@electenvy.com + Client
Project Name:	Feinway SWD	Turn Around	
Project Number:	12802	Routine:	☒
Project Location:	Lee County NM	Rush:	☐
Sampler's Name:	Wesley Kunkin	Due Date:	
PO #:			

ANALYSIS REQUEST

Program: ☐ UST/PT ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: ☐ Level I ☐ PST/UST ☐ TRR ☐ Level II ☐	
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:	

Project Name:	Feinway SWD	Turn Around	
Project Number:	12802	Routine:	☒
Project Location:	Lee County NM	Rush:	☐
Sampler's Name:	Wesley Kunkin	Due Date:	
PO #:			

SAMPLE RECEIPT

Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	10.0	Thermometer ID	
Received Inlet:	Yes ☒ No ☐		
Cooler Custody Seals:	Yes ☐ No ☒	Correction Factor:	
Sample Custody Seals:	Yes ☐ No ☒	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
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Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
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Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Preservative Codes	Sample Comments
Sample 1A @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1B @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1C @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1D @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1E @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1F @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1G @ 1'	Soil	7.28.20		1'	X	X	X	X		
Sample 1H @ 1'	Soil	7.28.20		1'	X	X	X	X		

Preservative Codes	HNO3: HN H2SO4: H2 HCL: HL None: NO NaOH: Na MeOH: Me Zn Acetate+ NaOH: Zn
Sample Comments	TAT starts the day received by the lab, if received by 4:30pm

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA																														

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

1. Wesley Kunkin Stephanie Tojra 7/30 8:34 Stephanie Tojra 7/31/20 7:30 8:40

3. _____ _____ _____ _____ _____

5. _____ _____ _____ _____ _____

ORIGIN ID: HOBBA (575) 392-7550

MAIL SERVICES ETC
4008 N GRIMESHOBBS, NM 88240
UNITED STATES USSHIP DATE: 30JUL20
ACTWGT: 29.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 18x14x12 IN

BILL THIRD PARTY

TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

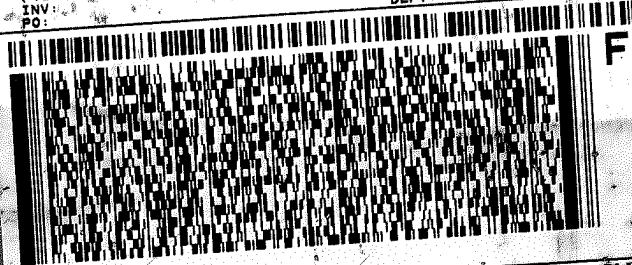
MIDLAND TX 79711

(432) 704-5440

REF:

DEPT:

PO:

FedEx
Express

J191219082001U

TRK# 9061 5134 6522
0201

41 MAFA

FRI - 31 JUL HOLD
PRIORITY OVERNIGHT
HLDMAFA
TX-US LBB

P01 9 160140-484 INT EXP 01/21 *

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 07.31.2020 11.00.00 AM

Work Order #: 668758

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes BTEX was in bulk container
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 07.31.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.31.2020