

Incident ID	nRM2010753767
District RP	
Facility ID	
Application ID	

Remediation Plan

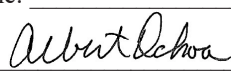
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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.

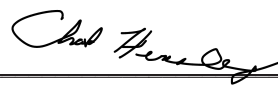
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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:  Date: 11/03/2021
email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

OCD Only

Received by: Chad Hensley Date: 12/06/2021

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 12/06/2021

Remediation Summary & Deferral Request

Goodnight Midstream Permian, LLC Blueberry SWD

Lea County, New Mexico

Unit Letter P, Section 24, Township 21 South, Range 33 East

Latitude 32.45911 North, Longitude 103.519608 West

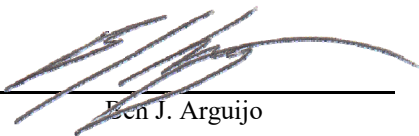
NMOCD Reference No. nRM2010753767

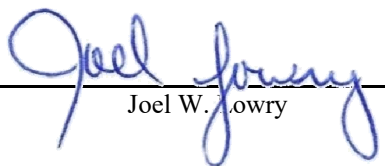
Prepared By:

Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A

Lubbock, Texas 79423


Ben J. Arguijo


Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC (Goodnight), has prepared this *Remediation Summary & Deferral Request* for the release site known as the Blueberry SWD (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.45911 Longitude: -103.519608

Provided GPS are in WGS84 format.

Site Name: <u>Blueberry SWD</u>	Site Type: <u>SWD</u>
Date Release Discovered: <u>4/14/2020</u>	API # (if applicable):

Unit Letter	Section	Township	Range	County
P	24	21S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Merchant Livestock)

Nature and Volume of Release

☒ Crude Oil	Volume Released (bbls) <u>96.64</u>	Volume Recovered (bbls) <u>96</u>
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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 and Affected Area:

The release was attributed to a tank overflowing due to the loss of communications on SCADA. A majority of the release was confined within the lined containment. Overspray from the release affected an area of the caliche pad to the west of the SWD containment.

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 Site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on September 15, 2021, an investigative soil boring/temporary monitor well was drilled at the Site in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 150 feet below ground surface (bgs) and left open for over 72 hours. A groundwater gauging event conducted on September 20, 2021, indicated the depth to groundwater was approximately 128.8 feet bgs. The location of the investigative soil bore/temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?	128.8'	
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) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
128.8'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 REMEDIATION ACTIVITIES SUMMARY

An inspection of the liner was conducted following removal of free-standing fluid from within the salt water disposal (SWD) containment area. During the liner inspection, it was determined that a relatively small hole was present within one of the plastic welds on a pipeline "stub-up", which allowed the released crude oil to breach the upper liner before flowing along the secondary liner toward the north and east.

On April 14, 2020, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil within the release margins affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard. The western sidewall of the affected area on the east side of the SWD was advanced to the maximum extent practicable, given the excavation's proximity to the steel-walled containment area.

On May 4, 2020, Etech collected 18 confirmation soil samples (NW, EW1, EW2, EW3, SW1, CSW, CWW, FS1, FS2, FS3, NOS, EOS, SOS, WOS, OS1, OS2, OS3, and OS4) from the sidewalls and floors of the excavated areas. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, with the exceptions of soil samples FS2, OS2, OS4, and EOS, which exhibited TPH concentrations ranging from 3,050 mg/kg (OS4) to 17,100 mg/kg (OS2). Based on these laboratory analytical results, the floor and sidewalls of the excavation were further advanced in the areas characterized by soil samples FS2, OS2, OS4, and EOS.

In addition, a hand auger was utilized to collect two (2) delineation soil samples (UC-A and UC-B) from impacted soil beneath the lined containment area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On May 19, 2020, Etech collected four (4) confirmation soil samples (FS2 B, EOS B, OS2 B, and OS4 B) from the sidewalls and floors of the excavated areas. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample FS2 B, which exhibited a concentration of 24,700 mg/kg. Based on these laboratory analytical results, the floor of the excavation was further advanced in the area characterized by soil sample FS2 B.

On June 24, 2020, two (2) confirmation soil samples (SS1A @ 5' and NS2B @ 5') were collected from the floor of the excavation in the area characterized by soil sample FS2 B. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

The final dimensions of the scraped overspray area on the west side of the SWD containment were approximately 50 feet in length, 10 to 30 feet in width, and three (3) to six (6) inches in depth. The final dimensions of the excavated area on the north side of the SWD containment were approximately 15 feet in length, eight (8) feet in width, and three (3) feet in depth. The final dimensions of the excavated area on the east side of the SWD containment were approximately 15 feet in length, four (4) to 10 feet in width, and three (3) to five (5) feet in depth. During the course of remediation activities, approximately 30 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. Approximately 30 cubic yards of locally sourced, non-impacted material was imported to the Site for use as backfill.

Soil sample locations and the extents of the excavated areas are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the Site are provided in Appendix D.

5.0 REGULATORY APPROVALS & STIPULATIONS

On August 3, 2020, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary and Deferral Request* was submitted to the NMOCD, requesting permission to defer remediation of impacted soil beneath the lined containment area until such time that the SWD facility is decommissioned and abandoned. The deferral request was subsequently denied by the NMOCD on the basis that depth to groundwater had been incorrectly assessed, and a more definitive determination of depth to groundwater was required. Furthermore, it was unclear from the accompanying "Site & Sample Location Map" whether or not the release "reached the off-pad area".

Please reference the *Remediation Summary and Deferral Request* for additional information.

6.0 DEPTH TO GROUNDWATER INVESTIGATION

On September 15, 2021, in accordance with the NMOCD, an investigative soil boring/temporary monitor well was drilled at the Site in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 150 feet bgs, equipped with temporary PVC casing, and left open for over 72 hours. A groundwater gauging event conducted on September 20, 2021, indicated the depth to groundwater was approximately 128.8 feet bgs. The temporary monitor well was subsequently plugged and abandoned on October 25, 2021.

The location of the temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix B.

7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the production pad of an active SWD facility. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to meet the needs of the facility. Final remediation, reclamation, and revegetation will be conducted upon decommissioning and abandonment of the SWD.

8.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria was excavated to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria. Impacted soil affected above the NMOCD Closure Criteria in the area characterized by soil samples UC-A and UC-B will be remediated upon decommissioning and abandonment of the SWD facility, in accordance with Section 19.15.29.13 NMAC. Etech and Goodnight maintain excavation of impacted soil beneath the lined SWD containment would require a major facility deconstruction.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight provide copies of this *Remediation Summary & Deferral Request* to the appropriate agencies and cease remediation activities at the Site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Deferral Request* 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

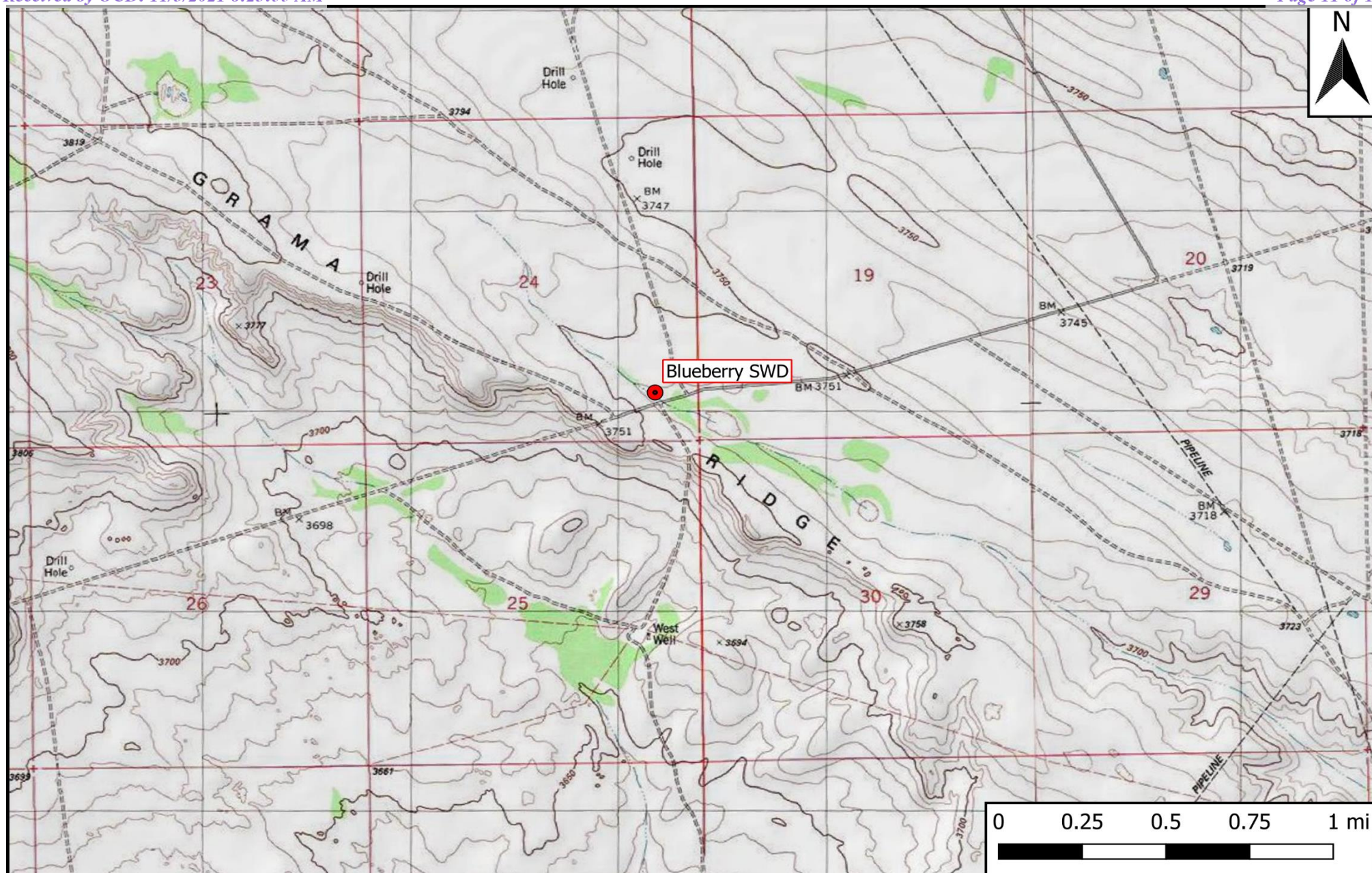
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Goodnight Midstream Permian, LLC
 Blueberry SWD
 GPS: 32.45911, -103.519608
 Lea County



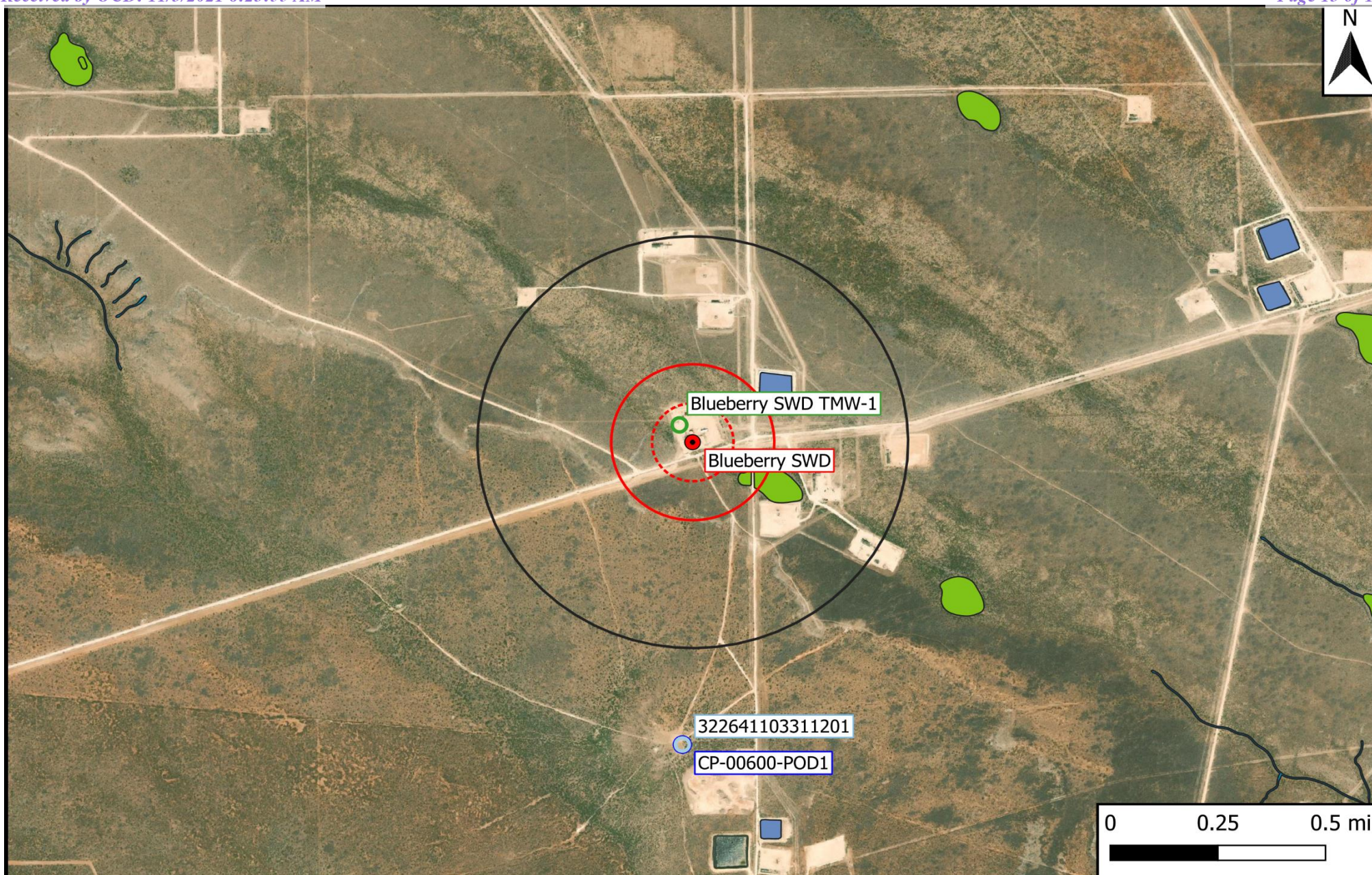
Drafted: bja

Checked: jwl

Date: 12/16/20

Figure 2

Aerial Proximity Map



Legend

- | | | |
|--------------------------------|------------------------------|-------------------|
| ● Site Location | ■ 1% Annual Flood Chance | ⋯ 500-Ft Radius |
| ○ Well - NMOSE | ■ Emergent/Forested Wetlands | ⊞ 1,000-Ft Radius |
| ○ Well - USGS | ■ Freshwater Pond/Lake | □ 0.5-Mi Radius |
| ○ Well - Investigative/Monitor | ■ Medium/High Karst | |
| — Potash Mine Workings | ■ Riverine | |

Figure 2
 Aerial Proximity Map
 Goodnight Midstream Permian, LLC
 Blueberry SWD
 GPS: 32.45911, -103.519608
 Lea County



Drafted: bja

Checked: jwl

Date: 11/1/21

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Auger Hole
- X Composite Floor Sample
- Composite Wall Sample
- Excavated Sample

Figure 3

Site & Sample Location Map
 Goodnight Midstream Permian, LLC
 Blueberry SWD
 GPS: 32.45911, -103.519608
 Lea County



Drafted: bja

Checked: jwl

Date: 10/29/21

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Blueberry SWD NMOCD Ref. #: nRM2010753767											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	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)
Deferral Characterization Samples (Under Containment)											
UC-A	5/4/2020	5	In-Situ	0.00235	0.155	<50.0	331	331	<50.0	331	6.51
UC-B	5/4/2020	6	In-Situ	0.00745	0.0519	<49.8	<49.8	<49.8	<49.8	<49.8	15.3
Excavation Samples											
NW	5/4/2020	0-3	In-Situ	<0.00198	0.00223	<49.9	<49.9	<49.9	<49.9	<49.9	16.2
EW1	5/4/2020	0-4	In-Situ	<0.00199	0.0110	<50.0	<50.0	<50.0	<50.0	<50.0	123
EW2	5/4/2020	0-4	In-Situ	0.00382	0.0778	<49.8	177	177	<49.8	177	72.9
EW3	5/4/2020	0-3	In-Situ	0.00392	0.145	<50.0	518	518	68.6	587	19.1
SW1	5/4/2020	0-4	In-Situ	<0.00200	<0.00200	<50.0	270	270	<50.0	270	13.5
CSW	5/4/2020	0-3	In-Situ	<0.00198	0.00450	<50.0	108	108	<50.0	108	96.2
CWW	5/4/2020	0-3	In-Situ	<0.00201	<0.00201	<50.0	67.6	67.6	<50.0	67.6	19.0
FS1	5/4/2020	4	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	14.4
FS2	5/4/2020	4	Excavated	<0.00201	0.00265	4,030	10,200	14,200	1,560	15,800	18.4
FS2 B	5/19/2020	4	Excavated	-	-	2,830	18,500	0.00	3,380	24,700	-
FS3	5/4/2020	3	In-Situ	<0.00198	0.00689	<49.9	<49.9	<49.9	<49.9	<49.9	18.9
NS2B	6/24/2020	5	In-Situ	<0.00110	<0.00549	<27.5	<27.5	<27.5	<27.5	<27.5	34.7
SS1A	6/24/2020	5	In-Situ	<0.00105	0.0165	<26.3	306	306	<26.3	306	56.9
Overspray Area Samples											
NOS	5/4/2020	0-0.5	In-Situ	<0.00199	<0.00199	<50.0	119	119	<50.0	119	16.8
EOS	5/4/2020	0-0.5	Excavated	<0.00199	0.00337	<249	14,200	14,200	1,880	16,100	59.9
EOS B	5/19/2020	0-0.5	In-Situ	-	-	<50.0	267	267	56.7	324	-
SOS	5/4/2020	0-0.5	In-Situ	0.00314	0.0258	<49.9	91.7	91.7	<49.9	91.7	160
WOS	5/4/2020	0-0.5	In-Situ	<0.00200	0.0124	<50.0	76.7	76.7	<50.0	76.7	63.6
OS1	5/4/2020	0.25	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	12.7
OS2	5/4/2020	0.25	Excavated	0.00322	0.0107	<250	14,800	14,800	2,320	17,100	175
OS2 B	5/19/2020	0.5	In-Situ	-	-	<50.0	63.8	63.8	<49.9	63.8	-
OS3	5/4/2020	0.25	In-Situ	0.00410	0.0327	<49.8	888	888	163	1,050	23.2
OS4	5/4/2020	0.25	Excavated	<0.00198	0.00429	<49.9	2,590	2,590	459	3,050	43.2
OS4 B	5/19/2020	0.5	In-Situ	-	-	<50.0	930	930	364	1,290	-

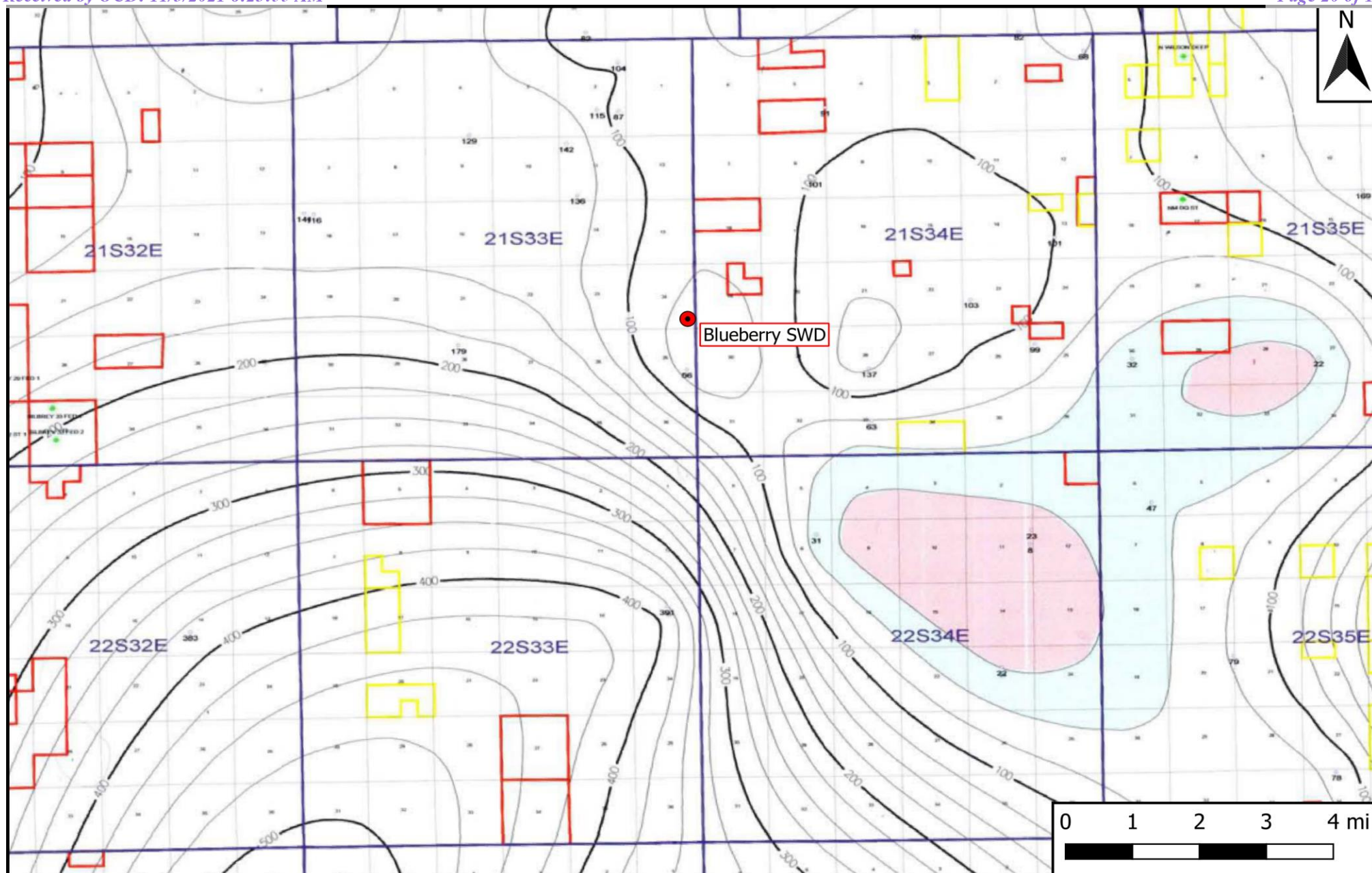
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Goodnight Midstream Permian, LLC
 Blueberry SWD
 GPS: 32.45911, -103.519608
 Lea County



Drafted: bja

Checked: jwl

Date: 8/20/21



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	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
CP 00600 POD1		CP	LE	2	4	25	21S	33E		639152	3591054*	1237		65			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 639136.3

Northing (Y): 3592291.26

Radius: 1610

*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.

4/15/20 8:41 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 00600 POD1	2	4	25	21S	33E		639152	3591054*

x

Driller License: 122**Driller Company:** UNKNOWN**Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 3 GPM**Casing Size:** 6.63**Depth Well:** 65 feet**Depth Water:**

x

*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.

4/15/20 8:41 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- 1,000-Ft Radius
- 0.5-Mi Radius

Figure 5

USGS Well Proximity Map
Goodnight Midstream Permian, LLC
Blueberry SWD
GPS: 32.45911, -103.519608
Lea County



Drafted: bja

Checked: jwl

Date: 10/29/21



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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Groundwater levels for the Nation

i Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 322641103311201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 322641103311201 21S.33E.25.42322

Lea County, New Mexico

Latitude 32°26'41", Longitude 103°31'12" NAD27

Land-surface elevation 3,660 feet above NAVD88

The depth of the well is 68 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-03-28			D	72019	56.53			1	Z		A
1971-02-04			D	72019	58.95			1	Z		A
1972-09-22			D	72019	56.53			1	Z		A
1976-12-16			D	72019	57.58			1	Z		A
1981-03-10			D	72019	56.03			1	Z		A
1986-03-20			D	72019	55.66			1	Z		A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-11-01 12:03:48 EDT

0.35 0.31 nadww02



Appendix B

Field Data & Soil Profile Logs

Sample Log

Date: 5-4-20

Project: Blueberry SWD

Project Number: 12335

Latitude: 32.45911

Longitude: -103.519608

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

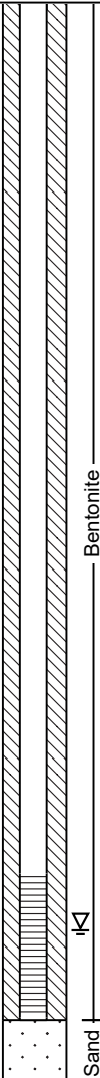
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Soil Boring/Temporary Monitor Well TMW-1

Company: Goodnight Midstream Permian, LLC Site: Blueberry SWD NMOCD Reference #: nRM2010753767 Location: Lea Co., NM PLSS: U/L "P" (SE/SE), Sec. 24, T21S, R33E			Well/Borehole ID: TMW-1 Coordinates (NAD 83): 32.459725,-103.520119 Drilling Date: 9/15/2021 Depth of Boring (ft): 150 Depth to Groundwater (ft): 128.8 Plugging Date: 10/25/2021			Drilling Company: Scarborough Drilling, Inc. Driller: L. Scarborough Drilling Method: Air Rotary Logged By: L. Scarborough Drafted By: B. Arguijo Draft Date: 10/29/2021		
Completion: N/A			Casing: N/A			Screen: N/A		
Comments: N/A								
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab	PID	Well Construction	
10			Caliche Topsoil	-	-	-	 Bentonite Sand	
20			Caliche	-	-	-		
30				-	-	-		
40				-	-	-		
50				-	-	-		
60				-	-	-		
70				-	-	-		
80				-	-	-		
90				-	-	-		
100				-	-	-		
110			-	-	-			
120			Loose sand	-	-	-		
130				-	-	-		
140				-	-	-		
150				-	-	-		
160			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • Due to the non-cohesive nature of the soil at lower depths, water was injected beginning at approximately 120 feet below ground surface (bgs) to prevent collapse of the borehole. • Borehole collapsed from approximately 141.5' to 150' bgs.					
170								

Disclaimer This bore log is intended for environmental not geotechnical purposes.



Soil Profile

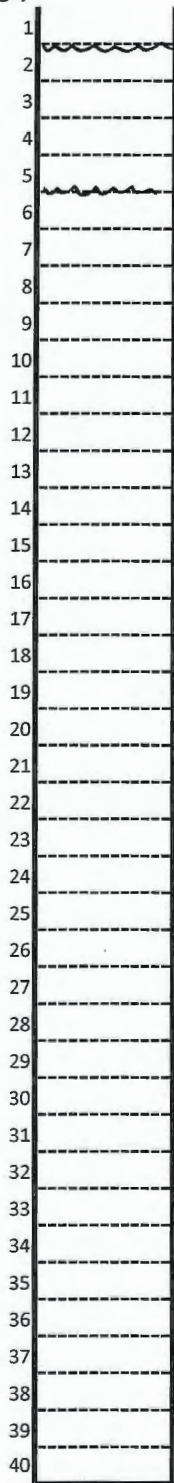
Date: 5/4/2020

Project: Blueberry SWD

Project Number: 12335 Latitude: 32.45911 Longitude: -103.519608

Depth (ft. bgs)

Description



0-1' Imported Fill / Caliche

Reddish Brown Sand

Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660570-001	660570-002	660570-003	660570-004	660570-005	660570-006
	<i>Field Id:</i>	FS1	FS2	SW1	EW1	EW2	CSW
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00
	<i>Analyzed:</i>	05.12.2020 12:20	05.12.2020 12:40	05.12.2020 13:00	05.12.2020 13:20	05.12.2020 13:40	05.12.2020 14:00
	<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	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	0.00382 0.00199	<0.00198 0.00198
Toluene		<0.00199 0.00199	0.00265 0.00201	<0.00200 0.00200	0.00679 0.00199	0.0392 0.00199	0.00450 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	0.0123 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00399 0.00399	0.00417 0.00398	0.00481 0.00398	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	0.0177 0.00199	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	0.00417 0.00199	0.0225 0.00199	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	0.00265 0.00201	<0.00200 0.00200	0.0110 0.00199	0.0778 0.00199	0.00450 0.00198
Chloride by EPA 300	<i>Extracted:</i>	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45
	<i>Analyzed:</i>	05.05.2020 18:15	05.05.2020 18:20	05.05.2020 18:25	05.05.2020 18:31	05.05.2020 18:36	05.05.2020 18:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14.4 5.03	18.4 5.00	13.5 5.02	123 5.02	72.9 4.96	96.2 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00
	<i>Analyzed:</i>	05.05.2020 17:23	05.05.2020 18:20	05.05.2020 18:39	05.05.2020 18:57	05.05.2020 19:16	05.05.2020 19:34
	<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	4030 249	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	10200 249	270 50.0	<50.0 50.0	177 49.8	108 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	1560 249	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Total TPH		<50.0 50.0	15800 249	270 50.0	<50.0 50.0	177 49.8	108 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660570-007	660570-008	660570-009	660570-010	660570-011	660570-012
	<i>Field Id:</i>	FS3	CWW	EW3	NW	OS1	OS2
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00
	<i>Analyzed:</i>	05.12.2020 14:20	05.12.2020 14:41	05.12.2020 15:01	05.12.2020 16:07	05.12.2020 17:27	05.12.2020 17:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00201 0.00201	0.00392 0.00200	<0.00198 0.00198	<0.00199 0.00199	0.00322 0.00199
Toluene		0.00689 0.00198	<0.00201 0.00201	0.0240 0.00200	0.00223 0.00198	<0.00199 0.00199	0.00752 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	0.00638 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00396 0.00396	<0.00402 0.00402	0.0476 0.00401	<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	0.0633 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	0.111 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		0.00689 0.00198	<0.00201 0.00201	0.145 0.00200	0.00223 0.00198	<0.00199 0.00199	0.0107 0.00199
Chloride by EPA 300	<i>Extracted:</i>	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.06.2020 13:45	05.06.2020 13:45
	<i>Analyzed:</i>	05.05.2020 18:57	05.05.2020 19:02	05.05.2020 19:18	05.05.2020 19:23	05.06.2020 20:03	05.06.2020 20:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		18.9 5.03	19.0 5.00	19.1 5.00	16.2 5.01	12.7 4.99	175 4.96
TPH By SW8015 Mod	<i>Extracted:</i>	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00
	<i>Analyzed:</i>	05.05.2020 19:52	05.05.2020 20:11	05.05.2020 20:29	05.05.2020 20:48	05.05.2020 21:25	05.05.2020 21:44
	<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)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<250 250
Diesel Range Organics (DRO)		<49.9 49.9	67.6 50.0	518 50.0	<49.9 49.9	<49.8 49.8	14800 250
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	68.6 50.0	<49.9 49.9	<49.8 49.8	2320 250
Total TPH		<49.9 49.9	67.6 50.0	587 50.0	<49.9 49.9	<49.8 49.8	17100 250

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660570-013	660570-014	660570-015	660570-016	660570-017	660570-018
	<i>Field Id:</i>	OS3	OS4	NO5	SO5	EO5	WO5
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.13.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.13.2020 08:00
	<i>Analyzed:</i>	05.13.2020 12:18	05.12.2020 18:27	05.12.2020 18:47	05.12.2020 19:08	05.12.2020 19:28	05.13.2020 12:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00410 0.00200	<0.00198 0.00198	<0.00199 0.00199	0.00314 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		0.0175 0.00200	0.00429 0.00198	<0.00199 0.00199	0.0194 0.00200	0.00337 0.00199	0.0124 0.00200
Ethylbenzene		0.00281 FX 0.00200	<0.00198 0.00198	<0.00199 0.00199	0.00326 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		0.00566 X 0.00400	<0.00397 0.00397	<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00401 0.00401
o-Xylene		0.00266 X 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		0.00832 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		0.0327 0.00200	0.00429 0.00198	<0.00199 0.00199	0.0258 0.00200	0.00337 0.00199	0.0124 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45
	<i>Analyzed:</i>	05.06.2020 20:14	05.06.2020 20:30	05.06.2020 20:35	05.06.2020 20:51	05.06.2020 20:56	05.06.2020 21:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		23.2 4.98	43.2 5.02	16.8 5.01	160 4.98	59.9 5.00	63.6 5.03
TPH By SW8015 Mod	<i>Extracted:</i>	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00
	<i>Analyzed:</i>	05.05.2020 22:03	05.05.2020 22:22	05.05.2020 22:40	05.05.2020 22:59	05.05.2020 23:18	05.05.2020 23:36
	<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)		<49.8 49.8	<49.9 49.9	<50.0 50.0	<49.9 49.9	<249 249	<50.0 50.0
Diesel Range Organics (DRO)		888 49.8	2590 49.9	119 50.0	91.7 49.9	14200 249	76.7 50.0
Motor Oil Range Hydrocarbons (MRO)		163 49.8	459 49.9	<50.0 50.0	<49.9 49.9	1880 249	<50.0 50.0
Total TPH		1050 49.8	3050 49.9	119 50.0	91.7 49.9	16100 249	76.7 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	660570-019	660570-020				
	Field Id:	UC-A	UC-B				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	05.04.2020 00:00	05.04.2020 00:00				
BTEX by EPA 8021B	Extracted:	05.12.2020 08:00	05.12.2020 08:00				
	Analyzed:	05.12.2020 20:08	05.12.2020 20:28				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		0.00235 0.00201	0.00745 0.00202				
Toluene		0.0105 0.00201	0.0241 0.00202				
Ethylbenzene		0.0410 0.00201	0.00358 0.00202				
m,p-Xylenes		0.00767 0.00402	0.00598 0.00403				
o-Xylene		0.0931 0.00201	0.0108 0.00202				
Total Xylenes		0.101 0.00201	0.0168 0.00202				
Total BTEX		0.155 0.00201	0.0519 0.00202				
Chloride by EPA 300	Extracted:	05.05.2020 16:45	05.05.2020 16:45				
	Analyzed:	05.05.2020 19:28	05.05.2020 19:34				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		6.51 5.04	15.3 4.98				
TPH By SW8015 Mod	Extracted:	05.05.2020 16:00	05.05.2020 16:00				
	Analyzed:	05.05.2020 23:55	05.06.2020 00:14				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8				
Diesel Range Organics (DRO)		331 50.0	<49.8 49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8				
Total TPH		331 50.0	<49.8 49.8				

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

Jessica Kramer
Project Manager



Analytical Report 660570

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Blueberry SWD

12335

05.14.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
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 (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.14.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **660570**

Blueberry SWD

Project Address:

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 XENCO Report Number(s) 660570. 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 XENCO Laboratories. 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. 660570 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 XENCO Laboratories 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'. The signature is written in a cursive, flowing style.

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 660570****Etech Environmental & Safety Solution, Inc, Midland, TX**

Blueberry SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS1	S	05.04.2020 00:00		660570-001
FS2	S	05.04.2020 00:00		660570-002
SW1	S	05.04.2020 00:00		660570-003
EW1	S	05.04.2020 00:00		660570-004
EW2	S	05.04.2020 00:00		660570-005
CSW	S	05.04.2020 00:00		660570-006
FS3	S	05.04.2020 00:00		660570-007
CWW	S	05.04.2020 00:00		660570-008
EW3	S	05.04.2020 00:00		660570-009
NW	S	05.04.2020 00:00		660570-010
OS1	S	05.04.2020 00:00		660570-011
OS2	S	05.04.2020 00:00		660570-012
OS3	S	05.04.2020 00:00		660570-013
OS4	S	05.04.2020 00:00		660570-014
NO5	S	05.04.2020 00:00		660570-015
SO5	S	05.04.2020 00:00		660570-016
EO5	S	05.04.2020 00:00		660570-017
WO5	S	05.04.2020 00:00		660570-018
UC-A	S	05.04.2020 00:00		660570-019
UC-B	S	05.04.2020 00:00		660570-020

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Blueberry SWD**Project ID: 12335
Work Order Number(s): 660570Report Date: 05.14.2020
Date Received: 05.05.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3125133 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 660570-017,660570-012.

Batch: LBA-3125733 BTEX by EPA 8021B

Lab Sample ID 660570-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660570-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -014, -015, -016, -017, -019, -020.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7703201-1-BLK.

Batch: LBA-3125815 BTEX by EPA 8021B

Lab Sample ID 660570-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene recovered below QC limits in the Matrix Spike. m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660570-013, -018.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Ethylbenzene Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 660570-013, -018



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **FS1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-001 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.4	5.03	mg/kg	05.05.2020 18:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.05.2020 17:23	
o-Terphenyl	84-15-1	83	%	70-130	05.05.2020 17:23	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **FS1**
Lab Sample Id: 660570-001

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 12:20	UX	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 12:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 12:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.12.2020 12:20		
4-Bromofluorobenzene	460-00-4	78	%	70-130	05.12.2020 12:20		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **FS2** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-002 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.05.2020 16:45 Basis: **Wet Weight**
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.4	5.00	mg/kg	05.05.2020 18:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4030	249	mg/kg	05.05.2020 18:20		5
Diesel Range Organics (DRO)	C10C28DRO	10200	249	mg/kg	05.05.2020 18:20		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1560	249	mg/kg	05.05.2020 18:20		5
Total TPH	PHC635	15800	249	mg/kg	05.05.2020 18:20		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.05.2020 18:20	
o-Terphenyl	84-15-1	102	%	70-130	05.05.2020 18:20	



Certificate of Analytical Results 660570

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

Sample Id: **FS2**
Lab Sample Id: 660570-002

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
Toluene	108-88-3	0.00265	0.00201	mg/kg	05.12.2020 12:40		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.12.2020 12:40	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
Total BTEX		0.00265	0.00201	mg/kg	05.12.2020 12:40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.12.2020 12:40		
4-Bromofluorobenzene	460-00-4	105	%	70-130	05.12.2020 12:40		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **SW1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-003 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.5	5.02	mg/kg	05.05.2020 18:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	270	50.0	mg/kg	05.05.2020 18:39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 18:39	U	1
Total TPH	PHC635	270	50.0	mg/kg	05.05.2020 18:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	05.05.2020 18:39	
o-Terphenyl	84-15-1	96	%	70-130	05.05.2020 18:39	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **SW1**
Lab Sample Id: 660570-003

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.12.2020 13:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.12.2020 13:00		
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.12.2020 13:00		



Certificate of Analytical Results 660570

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

Sample Id: **EW1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-004 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	123	5.02	mg/kg	05.05.2020 18:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.05.2020 18:57	
o-Terphenyl	84-15-1	84	%	70-130	05.05.2020 18:57	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EW1**
Lab Sample Id: 660570-004

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 13:20	U	1
Toluene	108-88-3	0.00679	0.00199	mg/kg	05.12.2020 13:20		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 13:20	U	1
m,p-Xylenes	179601-23-1	0.00417	0.00398	mg/kg	05.12.2020 13:20		1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 13:20	U	1
Total Xylenes	1330-20-7	0.00417	0.00199	mg/kg	05.12.2020 13:20		1
Total BTEX		0.0110	0.00199	mg/kg	05.12.2020 13:20		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.12.2020 13:20		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.12.2020 13:20		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EW2**
Lab Sample Id: 660570-005

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.05.2020 16:45

Basis: Wet Weight

Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.9	4.96	mg/kg	05.05.2020 18:36		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.05.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	177	49.8	mg/kg	05.05.2020 19:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.05.2020 19:16	U	1
Total TPH	PHC635	177	49.8	mg/kg	05.05.2020 19:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.05.2020 19:16	
o-Terphenyl	84-15-1	87	%	70-130	05.05.2020 19:16	



Certificate of Analytical Results 660570

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

Sample Id: **EW2** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-005 Date Collected: 05.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.12.2020 08:00 Basis: Wet Weight
 Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00382	0.00199	mg/kg	05.12.2020 13:40		1
Toluene	108-88-3	0.0392	0.00199	mg/kg	05.12.2020 13:40		1
Ethylbenzene	100-41-4	0.0123	0.00199	mg/kg	05.12.2020 13:40		1
m,p-Xylenes	179601-23-1	0.00481	0.00398	mg/kg	05.12.2020 13:40		1
o-Xylene	95-47-6	0.0177	0.00199	mg/kg	05.12.2020 13:40		1
Total Xylenes	1330-20-7	0.0225	0.00199	mg/kg	05.12.2020 13:40		1
Total BTEX		0.0778	0.00199	mg/kg	05.12.2020 13:40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	05.12.2020 13:40		
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.12.2020 13:40		



Certificate of Analytical Results 660570

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

Sample Id: **CSW** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-006 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.05.2020 16:45 Basis: **Wet Weight**
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.2	4.99	mg/kg	05.05.2020 18:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 19:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	108	50.0	mg/kg	05.05.2020 19:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 19:34	U	1
Total TPH	PHC635	108	50.0	mg/kg	05.05.2020 19:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.05.2020 19:34	
o-Terphenyl	84-15-1	84	%	70-130	05.05.2020 19:34	



Certificate of Analytical Results 660570

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

Sample Id: **CSW**
Lab Sample Id: 660570-006

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
Toluene	108-88-3	0.00450	0.00198	mg/kg	05.12.2020 14:00		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 14:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
Total BTEX		0.00450	0.00198	mg/kg	05.12.2020 14:00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.12.2020 14:00		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 14:00		



Certificate of Analytical Results 660570

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

Sample Id: FS3 Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-007 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	5.03	mg/kg	05.05.2020 18:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.05.2020 19:52	
o-Terphenyl	84-15-1	85	%	70-130	05.05.2020 19:52	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: FS3
Lab Sample Id: 660570-007

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
Toluene	108-88-3	0.00689	0.00198	mg/kg	05.12.2020 14:20		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.12.2020 14:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
Total BTEX		0.00689	0.00198	mg/kg	05.12.2020 14:20		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.12.2020 14:20		
4-Bromofluorobenzene	460-00-4	88	%	70-130	05.12.2020 14:20		



Certificate of Analytical Results 660570

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

Sample Id: **CWW** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-008 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.0	5.00	mg/kg	05.05.2020 19:02		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	67.6	50.0	mg/kg	05.05.2020 20:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 20:11	U	1
Total TPH	PHC635	67.6	50.0	mg/kg	05.05.2020 20:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	05.05.2020 20:11	
o-Terphenyl	84-15-1	89	%	70-130	05.05.2020 20:11	



Certificate of Analytical Results 660570

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

Sample Id: **CWW**
Lab Sample Id: 660570-008

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.12.2020 14:41	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.12.2020 14:41		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.12.2020 14:41		



Certificate of Analytical Results 660570

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

Sample Id: **EW3** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-009 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.1	5.00	mg/kg	05.05.2020 19:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 20:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	518	50.0	mg/kg	05.05.2020 20:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	68.6	50.0	mg/kg	05.05.2020 20:29		1
Total TPH	PHC635	587	50.0	mg/kg	05.05.2020 20:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	05.05.2020 20:29	
o-Terphenyl	84-15-1	102	%	70-130	05.05.2020 20:29	



Certificate of Analytical Results 660570

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

Sample Id: **EW3** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-009 Date Collected: 05.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.12.2020 08:00 Basis: Wet Weight
 Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00392	0.00200	mg/kg	05.12.2020 15:01		1
Toluene	108-88-3	0.0240	0.00200	mg/kg	05.12.2020 15:01		1
Ethylbenzene	100-41-4	0.00638	0.00200	mg/kg	05.12.2020 15:01		1
m,p-Xylenes	179601-23-1	0.0476	0.00401	mg/kg	05.12.2020 15:01		1
o-Xylene	95-47-6	0.0633	0.00200	mg/kg	05.12.2020 15:01		1
Total Xylenes	1330-20-7	0.111	0.00200	mg/kg	05.12.2020 15:01		1
Total BTEX		0.145	0.00200	mg/kg	05.12.2020 15:01		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	89	%	70-130	05.12.2020 15:01		
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.12.2020 15:01		



Certificate of Analytical Results 660570

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

Sample Id: **NW** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-010 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.05.2020 16:45 Basis: **Wet Weight**
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.2	5.01	mg/kg	05.05.2020 19:23		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.05.2020 20:48	
o-Terphenyl	84-15-1	89	%	70-130	05.05.2020 20:48	



Certificate of Analytical Results 660570

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

Sample Id: **NW** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-010 Date Collected: 05.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: **KTL** % Moisture:
 Analyst: **KTL** Date Prep: 05.12.2020 08:00 Basis: **Wet Weight**
 Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
Toluene	108-88-3	0.00223	0.00198	mg/kg	05.12.2020 16:07		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 16:07	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
Total BTEX		0.00223	0.00198	mg/kg	05.12.2020 16:07		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.12.2020 16:07		
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.12.2020 16:07		



Certificate of Analytical Results 660570

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

Sample Id: **OS1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-011 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.7	4.99	mg/kg	05.06.2020 20:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.05.2020 21:25	
o-Terphenyl	84-15-1	87	%	70-130	05.05.2020 21:25	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS1**
Lab Sample Id: 660570-011

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 17:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.12.2020 17:27		
1,4-Difluorobenzene	540-36-3	97	%	70-130	05.12.2020 17:27		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS2** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-012 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	175	4.96	mg/kg	05.06.2020 20:09		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	05.05.2020 21:44	U	5
Diesel Range Organics (DRO)	C10C28DRO	14800	250	mg/kg	05.05.2020 21:44		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	2320	250	mg/kg	05.05.2020 21:44		5
Total TPH	PHC635	17100	250	mg/kg	05.05.2020 21:44		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	05.05.2020 21:44	
o-Terphenyl	84-15-1	318	%	70-130	05.05.2020 21:44	**



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS2**
Lab Sample Id: 660570-012

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00322	0.00199	mg/kg	05.12.2020 17:47		1
Toluene	108-88-3	0.00752	0.00199	mg/kg	05.12.2020 17:47		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 17:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 17:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 17:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 17:47	U	1
Total BTEX		0.0107	0.00199	mg/kg	05.12.2020 17:47		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.12.2020 17:47		
1,4-Difluorobenzene	540-36-3	79	%	70-130	05.12.2020 17:47		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS3** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-013 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.2	4.98	mg/kg	05.06.2020 20:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.05.2020 22:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	888	49.8	mg/kg	05.05.2020 22:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	163	49.8	mg/kg	05.05.2020 22:03		1
Total TPH	PHC635	1050	49.8	mg/kg	05.05.2020 22:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.05.2020 22:03	
o-Terphenyl	84-15-1	117	%	70-130	05.05.2020 22:03	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS3**
Lab Sample Id: 660570-013

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.13.2020 08:00

Basis: Wet Weight

Seq Number: 3125815

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00410	0.00200	mg/kg	05.13.2020 12:18		1
Toluene	108-88-3	0.0175	0.00200	mg/kg	05.13.2020 12:18		1
Ethylbenzene	100-41-4	0.00281	0.00200	mg/kg	05.13.2020 12:18	FX	1
m,p-Xylenes	179601-23-1	0.00566	0.00400	mg/kg	05.13.2020 12:18	X	1
o-Xylene	95-47-6	0.00266	0.00200	mg/kg	05.13.2020 12:18	X	1
Total Xylenes	1330-20-7	0.00832	0.00200	mg/kg	05.13.2020 12:18		1
Total BTEX		0.0327	0.00200	mg/kg	05.13.2020 12:18		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.13.2020 12:18		
4-Bromofluorobenzene	460-00-4	103	%	70-130	05.13.2020 12:18		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS4** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-014 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.2	5.02	mg/kg	05.06.2020 20:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 22:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	2590	49.9	mg/kg	05.05.2020 22:22		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	459	49.9	mg/kg	05.05.2020 22:22		1
Total TPH	PHC635	3050	49.9	mg/kg	05.05.2020 22:22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.05.2020 22:22	
o-Terphenyl	84-15-1	130	%	70-130	05.05.2020 22:22	



Certificate of Analytical Results 660570

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

Sample Id: **OS4**
Lab Sample Id: 660570-014

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
Toluene	108-88-3	0.00429	0.00198	mg/kg	05.12.2020 18:27		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 18:27	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
Total BTEX		0.00429	0.00198	mg/kg	05.12.2020 18:27		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	05.12.2020 18:27		
4-Bromofluorobenzene	460-00-4	122	%	70-130	05.12.2020 18:27		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **NO5** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-015 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.8	5.01	mg/kg	05.06.2020 20:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 22:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	119	50.0	mg/kg	05.05.2020 22:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 22:40	U	1
Total TPH	PHC635	119	50.0	mg/kg	05.05.2020 22:40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.05.2020 22:40	
o-Terphenyl	84-15-1	88	%	70-130	05.05.2020 22:40	



Certificate of Analytical Results 660570

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

Sample Id: **NO5**
Lab Sample Id: 660570-015

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 18:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.12.2020 18:47		
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.12.2020 18:47		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **SO5** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-016 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	4.98	mg/kg	05.06.2020 20:51		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 22:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	91.7	49.9	mg/kg	05.05.2020 22:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.05.2020 22:59	U	1
Total TPH	PHC635	91.7	49.9	mg/kg	05.05.2020 22:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.05.2020 22:59	
o-Terphenyl	84-15-1	81	%	70-130	05.05.2020 22:59	



Certificate of Analytical Results 660570

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

Sample Id: **SO5** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-016 Date Collected: 05.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.12.2020 08:00 Basis: Wet Weight
 Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00314	0.00200	mg/kg	05.12.2020 19:08		1
Toluene	108-88-3	0.0194	0.00200	mg/kg	05.12.2020 19:08		1
Ethylbenzene	100-41-4	0.00326	0.00200	mg/kg	05.12.2020 19:08		1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 19:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 19:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 19:08	U	1
Total BTEX		0.0258	0.00200	mg/kg	05.12.2020 19:08		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.12.2020 19:08		
1,4-Difluorobenzene	540-36-3	104	%	70-130	05.12.2020 19:08		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EO5**
Lab Sample Id: 660570-017

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.06.2020 13:45

Basis: Wet Weight

Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.9	5.00	mg/kg	05.06.2020 20:56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249	mg/kg	05.05.2020 23:18	U	5
Diesel Range Organics (DRO)	C10C28DRO	14200	249	mg/kg	05.05.2020 23:18		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1880	249	mg/kg	05.05.2020 23:18		5
Total TPH	PHC635	16100	249	mg/kg	05.05.2020 23:18		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.05.2020 23:18	
o-Terphenyl	84-15-1	295	%	70-130	05.05.2020 23:18	**



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EO5**
Lab Sample Id: 660570-017

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
Toluene	108-88-3	0.00337	0.00199	mg/kg	05.12.2020 19:28		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 19:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
Total BTEX		0.00337	0.00199	mg/kg	05.12.2020 19:28		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	80	%	70-130	05.12.2020 19:28		
4-Bromofluorobenzene	460-00-4	130	%	70-130	05.12.2020 19:28		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **WO5** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-018 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.6	5.03	mg/kg	05.06.2020 21:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 23:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	76.7	50.0	mg/kg	05.05.2020 23:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 23:36	U	1
Total TPH	PHC635	76.7	50.0	mg/kg	05.05.2020 23:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	05.05.2020 23:36	
o-Terphenyl	84-15-1	85	%	70-130	05.05.2020 23:36	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **WO5**
Lab Sample Id: 660570-018

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.13.2020 08:00

Basis: Wet Weight

Seq Number: 3125815

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
Toluene	108-88-3	0.0124	0.00200	mg/kg	05.13.2020 12:39		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.13.2020 12:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
Total BTEX		0.0124	0.00200	mg/kg	05.13.2020 12:39		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.13.2020 12:39		
1,4-Difluorobenzene	540-36-3	118	%	70-130	05.13.2020 12:39		



Certificate of Analytical Results 660570

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

Sample Id: UC-A Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-019 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.51	5.04	mg/kg	05.05.2020 19:28		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 23:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	331	50.0	mg/kg	05.05.2020 23:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 23:55	U	1
Total TPH	PHC635	331	50.0	mg/kg	05.05.2020 23:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.05.2020 23:55	
o-Terphenyl	84-15-1	93	%	70-130	05.05.2020 23:55	



Certificate of Analytical Results 660570

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

Sample Id: UC-A Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-019 Date Collected: 05.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.12.2020 08:00 Basis: Wet Weight
 Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00235	0.00201	mg/kg	05.12.2020 20:08		1
Toluene	108-88-3	0.0105	0.00201	mg/kg	05.12.2020 20:08		1
Ethylbenzene	100-41-4	0.0410	0.00201	mg/kg	05.12.2020 20:08		1
m,p-Xylenes	179601-23-1	0.00767	0.00402	mg/kg	05.12.2020 20:08		1
o-Xylene	95-47-6	0.0931	0.00201	mg/kg	05.12.2020 20:08		1
Total Xylenes	1330-20-7	0.101	0.00201	mg/kg	05.12.2020 20:08		1
Total BTEX		0.155	0.00201	mg/kg	05.12.2020 20:08		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	169	%	70-130	05.12.2020 20:08	**	
1,4-Difluorobenzene	540-36-3	88	%	70-130	05.12.2020 20:08		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **UC-B** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-020 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.3	4.98	mg/kg	05.05.2020 19:34		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.06.2020 00:14	
o-Terphenyl	84-15-1	89	%	70-130	05.06.2020 00:14	



Certificate of Analytical Results 660570

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

Sample Id: UC-B
Lab Sample Id: 660570-020

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00745	0.00202	mg/kg	05.12.2020 20:28		1
Toluene	108-88-3	0.0241	0.00202	mg/kg	05.12.2020 20:28		1
Ethylbenzene	100-41-4	0.00358	0.00202	mg/kg	05.12.2020 20:28		1
m,p-Xylenes	179601-23-1	0.00598	0.00403	mg/kg	05.12.2020 20:28		1
o-Xylene	95-47-6	0.0108	0.00202	mg/kg	05.12.2020 20:28		1
Total Xylenes	1330-20-7	0.0168	0.00202	mg/kg	05.12.2020 20:28		1
Total BTEX		0.0519	0.00202	mg/kg	05.12.2020 20:28		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.12.2020 20:28		
1,4-Difluorobenzene	540-36-3	95	%	70-130	05.12.2020 20:28		



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

Blueberry SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3125118

MB Sample Id: 7702748-1-BLK

Matrix: Solid

LCS Sample Id: 7702748-1-BKS

Prep Method: E300P

Date Prep: 05.05.2020

LCSD Sample Id: 7702748-1-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	258	103	244	98	90-110	6	20	mg/kg	05.05.2020 17:17	

Analytical Method: Chloride by EPA 300

Seq Number: 3125258

MB Sample Id: 7702807-1-BLK

Matrix: Solid

LCS Sample Id: 7702807-1-BKS

Prep Method: E300P

Date Prep: 05.06.2020

LCSD Sample Id: 7702807-1-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	245	98	242	97	90-110	1	20	mg/kg	05.06.2020 18:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3125118

Parent Sample Id: 660520-004

Matrix: Soil

MS Sample Id: 660520-004 S

Prep Method: E300P

Date Prep: 05.05.2020

MSD Sample Id: 660520-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.7	252	274	100	278	101	90-110	1	20	mg/kg	05.05.2020 17:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3125118

Parent Sample Id: 660570-006

Matrix: Soil

MS Sample Id: 660570-006 S

Prep Method: E300P

Date Prep: 05.05.2020

MSD Sample Id: 660570-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	96.2	250	322	90	330	94	90-110	2	20	mg/kg	05.05.2020 18:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3125258

Parent Sample Id: 660570-013

Matrix: Soil

MS Sample Id: 660570-013 S

Prep Method: E300P

Date Prep: 05.06.2020

MSD Sample Id: 660570-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.2	249	251	91	260	95	90-110	4	20	mg/kg	05.06.2020 20:19	

Analytical Method: Chloride by EPA 300

Seq Number: 3125258

Parent Sample Id: 660652-043

Matrix: Soil

MS Sample Id: 660652-043 S

Prep Method: E300P

Date Prep: 05.06.2020

MSD Sample Id: 660652-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.4	251	238	90	233	88	90-110	2	20	mg/kg	05.06.2020 19:05	X

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

Blueberry SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125133

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.05.2020

MB Sample Id: 7702761-1-BLK

LCS Sample Id: 7702761-1-BKS

LCSD Sample Id: 7702761-1-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	894	89	884	88	70-130	1	20	mg/kg	05.05.2020 16:34	
Diesel Range Organics (DRO)	<50.0	1000	949	95	942	94	70-130	1	20	mg/kg	05.05.2020 16:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		92		92		70-130	%	05.05.2020 16:34
o-Terphenyl	82		83		84		70-130	%	05.05.2020 16:34

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125133

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.05.2020

MB Sample Id: 7702761-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.05.2020 16:15	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125133

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.05.2020

Parent Sample Id: 660570-001

MS Sample Id: 660570-001 S

MSD Sample Id: 660570-001 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	997	952	95	954	95	70-130	0	20	mg/kg	05.05.2020 17:42	
Diesel Range Organics (DRO)	<49.9	997	1030	103	1030	103	70-130	0	20	mg/kg	05.05.2020 17:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		99		70-130	%	05.05.2020 17:42
o-Terphenyl	92		96		70-130	%	05.05.2020 17:42

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125733

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.12.2020

MB Sample Id: 7703201-1-BLK

LCS Sample Id: 7703201-1-BKS

LCSD Sample Id: 7703201-1-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	0.107	107	0.111	111	70-130	4	35	mg/kg	05.12.2020 10:01	
Toluene	<0.00200	0.100	0.0959	96	0.0947	95	70-130	1	35	mg/kg	05.12.2020 10:01	
Ethylbenzene	<0.00200	0.100	0.0968	97	0.0947	95	70-130	2	35	mg/kg	05.12.2020 10:01	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.176	88	70-130	2	35	mg/kg	05.12.2020 10:01	
o-Xylene	<0.00200	0.100	0.0871	87	0.0871	87	70-130	0	35	mg/kg	05.12.2020 10:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		102		106		70-130	%	05.12.2020 10:01
4-Bromofluorobenzene	63	**	96		101		70-130	%	05.12.2020 10:01

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

Blueberry SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125815

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.13.2020

MB Sample Id: 7703255-1-BLK

LCS Sample Id: 7703255-1-BKS

LCSD Sample Id: 7703255-1-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	0.105	105	0.118	119	70-130	12	35	mg/kg	05.13.2020 10:16	
Toluene	<0.00200	0.100	0.115	115	0.121	122	70-130	5	35	mg/kg	05.13.2020 10:16	
Ethylbenzene	<0.00200	0.100	0.108	108	0.108	109	70-130	0	35	mg/kg	05.13.2020 10:16	
m,p-Xylenes	<0.00400	0.200	0.219	110	0.216	109	70-130	1	35	mg/kg	05.13.2020 10:16	
o-Xylene	<0.00200	0.100	0.104	104	0.105	106	70-130	1	35	mg/kg	05.13.2020 10:16	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	109		105		109		70-130			%	05.13.2020 10:16	
4-Bromofluorobenzene	101		106		104		70-130			%	05.13.2020 10:16	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125733

Matrix: Soil

Prep Method: SW5035A

Date Prep: 05.12.2020

Parent Sample Id: 660570-001

MS Sample Id: 660570-001 S

MSD Sample Id: 660570-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.00431	4	0.00470	5	70-130	9	35	mg/kg	05.12.2020 10:41	X
Toluene	<0.00199	0.0994	0.00433	4	0.00463	5	70-130	7	35	mg/kg	05.12.2020 10:41	X
Ethylbenzene	<0.00199	0.0994	0.00299	3	0.00256	3	70-130	15	35	mg/kg	05.12.2020 10:41	X
m,p-Xylenes	<0.00398	0.199	0.00633	3	0.00579	3	70-130	9	35	mg/kg	05.12.2020 10:41	X
o-Xylene	<0.00199	0.0994	0.00445	4	0.00452	5	70-130	2	35	mg/kg	05.12.2020 10:41	X
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			102		102		70-130			%	05.12.2020 10:41	
4-Bromofluorobenzene			100		95		70-130			%	05.12.2020 10:41	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125815

Matrix: Soil

Prep Method: SW5035A

Date Prep: 05.13.2020

Parent Sample Id: 660570-013

MS Sample Id: 660570-013 S

MSD Sample Id: 660570-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00410	0.0992	0.0930	90	0.0960	92	70-130	3	35	mg/kg	05.13.2020 10:57	
Toluene	0.0175	0.0992	0.131	114	0.135	118	70-130	3	35	mg/kg	05.13.2020 10:57	
Ethylbenzene	0.00281	0.0992	0.0493	47	0.103	100	70-130	71	35	mg/kg	05.13.2020 10:57	XF
m,p-Xylenes	0.00566	0.198	0.0900	43	0.113	54	70-130	23	35	mg/kg	05.13.2020 10:57	X
o-Xylene	0.00266	0.0992	0.0425	40	0.0554	53	70-130	26	35	mg/kg	05.13.2020 10:57	X
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			123		123		70-130			%	05.13.2020 10:57	
4-Bromofluorobenzene			90		104		70-130			%	05.13.2020 10:57	

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



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 (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No:

o: 606570

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Project Manager:	Joel Lowry	Bill to: (if different)	Goodnight midstream
Company Name:	Etech Environmental & Safety	Company Name:	Goodnight midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting: Level I ☐	Level II ☐	PST/US ☐	TRR ☐ Level II ☐
Deliverables: EDD ☐	ADaPT ☐	Other: ☐	

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>		TCLP / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U											1631 / 245.1 / 7470 / 7471 : Hg

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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
					5/15/20
					10:35

Revised Date 10/1/19 Rev. 2019.1



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 (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

640570

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Project Manager:	Joel Lowry	Bill to: (if different)	Goodnight Midstream
Company Name:	Etech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		Blueberry SWD		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		12335		Routine:														HNO3: HN					
Project Location				Rush:														H2SO4: H2					
Sampler's Name:		Eric Mojica		Due Date:														HCL: HL					
PO #:																		None: NO					
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐														NaOH: Na	
Temperature (°C):		0.0/10.3		Thermometer ID:														MeOH: Me					
Received Intact:		Yes ☒ No ☐																Zn Acetate+ NaOH: Zn					
Cooler Custody Seals:		Yes ☐ No ☒		Correction Factor:														TAT starts the day received by the lab, if received by 4:30pm					
Sample Custody Seals:		Yes ☐ No ☒		Total Containers:																			
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Number of Containers/Preservative Code												Sample Comments	
OS1 ✓				5/4/20						Chloride E300													
OS2 ✓				5/4/20						BTX 8021													
OS3 ✓				5/4/20						TPH Modified Ext													
OS4 ✓				5/4/20						TPH TX1005													
NOS ✓				5/4/20																			
SOS ✓				5/4/20																			
EOS ✓				5/4/20																			
WOS ✓				5/4/20																			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co 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 Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Joel Lowry	Marion Williams		Marion Williams	Bill	5/15/20

Revised Date 10/14/19 Rev. 2019.1



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 (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

1600510

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Page _____ of _____

Project Manager:	Joel Lowry	Bill to: (if different)	Goodnight Midstream
Company Name:	Etech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Blueberry Sld		Turn Around		ANALYSIS REQUEST												Preservative Codes			
Project Number:		12335		Routine:														HNO3: HN			
Project Location				Rush:														H2SO4: H2			
Sampler's Name:		Eric Mojica		Due Date:														HCL: HL			
PO #:																		None: NO			
SAMPLE RECEIPT		Temp Blank: Yes ☐ No ☒		Wet Ice: Yes ☒ No ☐														NaOH: Na			
Temperature (°C):		0410.3		Thermometer														MeOH: Me			
Received Intact:		Yes ☐ No ☒																Zn Acetate+ NaOH: Zn			
Cooler Custody Seals:		Yes ☐ No ☒		Correction Factor:														TAT starts the day received by the lab, if received by 4:30pm			
Sample Custody Seals:		Yes ☐ No ☒		Total Containers:														Sample Comments			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative	Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005										
UC - A ✓			5/4/20		5'			X	X	X											
UC - B ✓			5/4/20		6'			X	X	X											

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	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	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	1631 / 245.1 / 7470 / 7471 : Hg												

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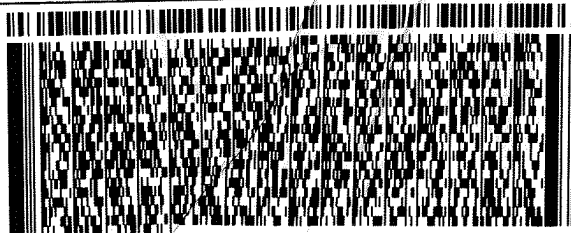
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [Signature]	1 [Signature]		2 [Signature]	2 [Signature]	5/5/20
3			4		10:55
5			6		

Revised Date 10/14/19 Rev. 2019.1

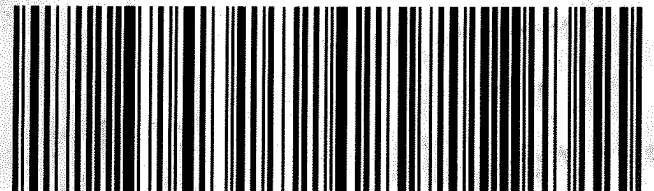
ORIGIN ID: H0BA (070) 002-1000	
** MAIL SERVICES ETC, LLC 4008 N GRIMES	
HOBBS, NM 88240 UNITED STATES US	
CAD DIMS	BILL

TO XENCO LABORATORIES HOLD FOR PICK
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711

(432) 563-1800 REF: INV: DEPT: PO:

 FedEx Express 

TRK# 105 2523 5461 TUE - 05 MAY HOLD
0201 PRIORITY OVERNIGHT
41 MAFA HLD
MAFA
TX-US LBB



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.05.2020 10.35.00 AM

Work Order #: 660570

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.3	
#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: 05.06.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.06.2020



Certificate of Analysis Summary 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 05.20.2020 10:46
Report Date: 05.21.2020 13:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	662025-001		662025-002		662025-003		662025-004			
	<i>Field Id:</i>	EOS B		OS4 B		FS2 B		OS2 B			
	<i>Depth:</i>										
	<i>Matrix:</i>	SOIL		SOIL		SOIL		SOIL			
	<i>Sampled:</i>	05.19.2020 08:30		05.19.2020 08:35		05.19.2020 08:40		05.19.2020 08:45			
TPH By SW8015 Mod	<i>Extracted:</i>	05.20.2020 11:00		05.20.2020 11:00		05.20.2020 11:00		05.20.2020 11:00			
	<i>Analyzed:</i>	05.20.2020 12:28		05.20.2020 13:25		05.20.2020 15:21		05.20.2020 14:03			
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	2830	250	<49.9	49.9		
Diesel Range Organics (DRO)		267	50.0	930	50.0	18500	250	63.8	49.9		
Motor Oil Range Hydrocarbons (MRO)		56.7	50.0	364	50.0	3380	250	<49.9	49.9		
Total TPH		324	50.0	1290	50.0	24700	250	63.8	49.9		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Analytical Report 662025

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Blueberry SWD

12335

05.21.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
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 (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.21.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **662025**

Blueberry SWD

Project Address: Rural 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 XENCO Report Number(s) 662025. 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 XENCO Laboratories. 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. 662025 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 XENCO Laboratories 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'. The signature is written in a cursive, flowing style.

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 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
EOS B	S	05.19.2020 08:30		662025-001
OS4 B	S	05.19.2020 08:35		662025-002
FS2 B	S	05.19.2020 08:40		662025-003
OS2 B	S	05.19.2020 08:45		662025-004



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Blueberry SWD

Project ID: 12335
Work Order Number(s): 662025

Report Date: 05.21.2020
Date Received: 05.20.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3126630 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 662025-001 S.

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 662025-002.



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EOS B**
Lab Sample Id: 662025-001

Matrix: Soil
Date Collected: 05.19.2020 08:30

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.20.2020 12:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	267	50.0	mg/kg	05.20.2020 12:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	56.7	50.0	mg/kg	05.20.2020 12:28		1
Total TPH	PHC635	324	50.0	mg/kg	05.20.2020 12:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	05.20.2020 12:28	
o-Terphenyl	84-15-1	129	%	70-130	05.20.2020 12:28	



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS4 B**
Lab Sample Id: 662025-002

Matrix: Soil
Date Collected: 05.19.2020 08:35

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.20.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	930	50.0	mg/kg	05.20.2020 13:25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	364	50.0	mg/kg	05.20.2020 13:25		1
Total TPH	PHC635	1290	50.0	mg/kg	05.20.2020 13:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	05.20.2020 13:25	
o-Terphenyl	84-15-1	155	%	70-130	05.20.2020 13:25	**



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **FS2 B**
Lab Sample Id: 662025-003

Matrix: Soil
Date Collected: 05.19.2020 08:40

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2830	250	mg/kg	05.20.2020 15:21		5
Diesel Range Organics (DRO)	C10C28DRO	18500	250	mg/kg	05.20.2020 15:21		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	3380	250	mg/kg	05.20.2020 15:21		5
Total TPH	PHC635	24700	250	mg/kg	05.20.2020 15:21		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.20.2020 15:21	
o-Terphenyl	84-15-1	87	%	70-130	05.20.2020 15:21	



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS2 B**
Lab Sample Id: 662025-004

Matrix: Soil
Date Collected: 05.19.2020 08:45

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.20.2020 14:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	63.8	49.9	mg/kg	05.20.2020 14:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.20.2020 14:03	U	1
Total TPH	PHC635	63.8	49.9	mg/kg	05.20.2020 14:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	05.20.2020 14:03	
o-Terphenyl	84-15-1	106	%	70-130	05.20.2020 14:03	



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
Blueberry SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126630

MB Sample Id: 7703761-1-BLK

Matrix: Solid

LCS Sample Id: 7703761-1-BKS

Prep Method: SW8015P

Date Prep: 05.20.2020

LCSD Sample Id: 7703761-1-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	972	97	1090	109	70-130	11	20	mg/kg	05.20.2020 11:52	
Diesel Range Organics (DRO)	<50.0	1000	997	100	1090	109	70-130	9	20	mg/kg	05.20.2020 11:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		126		130		70-130	%	05.20.2020 11:52
o-Terphenyl	127		121		125		70-130	%	05.20.2020 11:52

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126630

Matrix: Solid

MB Sample Id: 7703761-1-BLK

Prep Method: SW8015P

Date Prep: 05.20.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.20.2020 11:34	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126630

Matrix: Soil

Parent Sample Id: 662025-001

MS Sample Id: 662025-001 S

Prep Method: SW8015P

Date Prep: 05.20.2020

MSD Sample Id: 662025-001 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	997	1150	115	941	94	70-130	20	20	mg/kg	05.20.2020 12:46	
Diesel Range Organics (DRO)	267	997	1210	95	1140	88	70-130	6	20	mg/kg	05.20.2020 12:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	139	**	123		70-130	%	05.20.2020 12:46
o-Terphenyl	127		116		70-130	%	05.20.2020 12:46

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

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.20.2020 10.46.00 AM

Work Order #: 662025

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.6
#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
#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: 05.20.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.20.2020

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



Analytical Report

Prepared for:

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

Project: Blueberry

Project Number: [none]

Location:

Lab Order Number: 0F25001



NELAP/TCEQ # T104704516-17-8

Report Date: 06/26/20

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

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1A @ 5'	0F25001-01	Soil	06/24/20 00:00	06-25-2020 08:30
NS2B @ 5'	0F25001-02	Soil	06/24/20 00:00	06-25-2020 08:30

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

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

SS1A @ 5'
0F25001-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Toluene	ND	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Ethylbenzene	ND	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Xylene (p/m)	0.0111	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Xylene (o)	0.00536	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		87.3 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	56.9	1.05	mg/kg dry	1	P0F2503	06/25/20	06/25/20	EPA 300.0
% Moisture	5.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M
>C12-C28	306	26.3	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M
Surrogate: 1-Chlorooctane		99.0 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M
Surrogate: o-Terphenyl		96.0 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	306	26.3	mg/kg dry	1	[CALC]	06/25/20	06/25/20	calc

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: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

NS2B @ 5'
0F25001-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.7	1.10	mg/kg dry	1	P0F2503	06/25/20	06/25/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.5 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		86.7 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/25/20	06/25/20	calc	

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: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

BTEX by 8021B - 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 P0F2409 - General Preparation (GC)**Blank (P0F2409-BLK1)**

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00500	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	75-125			

LCS (P0F2409-BS1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130			
Toluene	0.105	0.00500	"	0.100		105	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.213	0.00500	"	0.200		106	70-130			
Xylene (o)	0.114	0.00500	"	0.100		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			

LCS Dup (P0F2409-BSD1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	2.65	20	
Toluene	0.103	0.00500	"	0.100		103	70-130	2.02	20	
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130	0.411	20	
Xylene (p/m)	0.211	0.00500	"	0.200		105	70-130	0.774	20	
Xylene (o)	0.113	0.00500	"	0.100		113	70-130	0.590	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.5	75-125			

Calibration Check (P0F2409-CCV1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.102	0.00500	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00500	"	0.100		106	80-120			
Xylene (p/m)	0.201	0.00500	"	0.200		100	80-120			
Xylene (o)	0.112	0.00500	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			

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: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

BTEX by 8021B - 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 P0F2409 - General Preparation (GC)**Calibration Check (P0F2409-CCV2)**

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0992	0.00500	"	0.100		99.2	80-120			
Ethylbenzene	0.104	0.00500	"	0.100		104	80-120			
Xylene (p/m)	0.196	0.00500	"	0.200		97.9	80-120			
Xylene (o)	0.108	0.00500	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.0	75-125			

Calibration Check (P0F2409-CCV3)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	80-120			
Toluene	0.0970	0.00500	"	0.100		97.0	80-120			
Ethylbenzene	0.100	0.00500	"	0.100		100	80-120			
Xylene (p/m)	0.186	0.00500	"	0.200		92.9	80-120			
Xylene (o)	0.101	0.00500	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.4	75-125			

Matrix Spike (P0F2409-MS1)

Source: 0F23004-05

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0869	0.00103	mg/kg dry	0.103	ND	84.3	80-120			
Toluene	0.0786	0.00515	"	0.103	0.00772	68.7	80-120			QM-05
Ethylbenzene	0.0863	0.00515	"	0.103	0.00652	77.4	80-120			QM-05
Xylene (p/m)	0.147	0.00515	"	0.206	0.0257	59.0	80-120			QM-05
Xylene (o)	0.0800	0.00515	"	0.103	0.00676	71.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.119		"	0.124		96.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.124		96.7	75-125			

Matrix Spike Dup (P0F2409-MSD1)

Source: 0F23004-05

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0849	0.00103	mg/kg dry	0.103	ND	82.4	80-120	2.33	20	
Toluene	0.0771	0.00515	"	0.103	0.00772	67.2	80-120	2.18	20	QM-05
Ethylbenzene	0.0842	0.00515	"	0.103	0.00652	75.3	80-120	2.71	20	QM-05
Xylene (p/m)	0.137	0.00515	"	0.206	0.0257	54.0	80-120	8.89	20	QM-05
Xylene (o)	0.0726	0.00515	"	0.103	0.00676	63.9	80-120	10.6	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.112		"	0.124		90.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.124		97.8	75-125			

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: Blueberry
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
Batch P0F2503 - *** DEFAULT PREP ***										
LCS (P0F2503-BS1)				Prepared & Analyzed: 06/25/20						
Chloride	397	1.00	mg/kg wet	400		99.4	80-120			
LCS Dup (P0F2503-BSD1)				Prepared & Analyzed: 06/25/20						
Chloride	396	1.00	mg/kg wet	400		99.1	80-120	0.239	20	
Calibration Check (P0F2503-CCV1)				Prepared & Analyzed: 06/25/20						
Chloride	19.1		mg/kg	20.0		95.6	0-200			
Calibration Check (P0F2503-CCV2)				Prepared & Analyzed: 06/25/20						
Chloride	19.1		mg/kg	20.0		95.7	0-200			
Matrix Spike (P0F2503-MS1)		Source: 0F25001-01		Prepared & Analyzed: 06/25/20						
Chloride	556	1.05	mg/kg dry	526	56.9	94.9	80-120			
Matrix Spike Dup (P0F2503-MSD1)		Source: 0F25001-01		Prepared & Analyzed: 06/25/20						
Chloride	546	1.05	mg/kg dry	526	56.9	93.0	80-120	1.79	20	
Batch P0F2601 - *** DEFAULT PREP ***										
Blank (P0F2601-BLK1)				Prepared & Analyzed: 06/26/20						
% Moisture	ND	0.1	%							
Duplicate (P0F2601-DUP1)		Source: 0F25004-10		Prepared & Analyzed: 06/26/20						
% Moisture	10.0	0.1	%		11.0			9.52	20	

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: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - 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 P0F2502 - TX 1005

Blank (P0F2502-BLK1)

Prepared & Analyzed: 06/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	46.4		"	50.0		92.7	70-130			

LCS (P0F2502-BS1)

Prepared & Analyzed: 06/25/20

C6-C12	878	25.0	mg/kg wet	1000		87.8	75-125			
>C12-C28	928	25.0	"	1000		92.8	75-125			
Surrogate: 1-Chlorooctane	94.3		"	100		94.3	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			

LCS Dup (P0F2502-BSD1)

Prepared & Analyzed: 06/25/20

C6-C12	888	25.0	mg/kg wet	1000		88.8	75-125	1.11	20	
>C12-C28	1010	25.0	"	1000		101	75-125	8.32	20	
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			

Calibration Check (P0F2502-CCV1)

Prepared & Analyzed: 06/25/20

C6-C12	554	25.0	mg/kg wet	500		111	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.5	70-130			

Calibration Check (P0F2502-CCV2)

Prepared & Analyzed: 06/25/20

C6-C12	560	25.0	mg/kg wet	500		112	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.1	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: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - 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 P0F2502 - TX 1005

Calibration Check (P0F2502-CCV3)

Prepared: 06/25/20 Analyzed: 06/26/20

C6-C12	546	25.0	mg/kg wet	500		109	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

Matrix Spike (P0F2502-MS1)

Source: 0F24009-01

Prepared & Analyzed: 06/25/20

C6-C12	1080	129	mg/kg dry	1030	109	93.7	75-125			
>C12-C28	3130	129	"	1030	2310	79.5	75-125			
Surrogate: 1-Chlorooctane	91.0		"	103		88.2	70-130			
Surrogate: o-Terphenyl	43.1		"	51.5		83.6	70-130			

Matrix Spike Dup (P0F2502-MSD1)

Source: 0F24009-01

Prepared & Analyzed: 06/25/20

C6-C12	1080	129	mg/kg dry	1030	109	94.2	75-125	0.484	20	
>C12-C28	3080	129	"	1030	2310	75.0	75-125	5.94	20	
Surrogate: 1-Chlorooctane	91.4		"	103		88.7	70-130			
Surrogate: o-Terphenyl	43.1		"	51.5		83.7	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: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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:

6/26/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	 45:59 32.459181, -103.519384 NW
Photo Direction: Northwest	
Photo Description: View of the affected areas on the north and east sides of the facilities.	

Photo Number: 2	 4/14/20, 1:04 PM +32.459006, -103.519767
Photo Direction: Northeast	
Photo Description: View of the overspray area on the west side of the facility.	

Photographic Log



Photographic Log



Photographic Log

Photo Number: 7	
Photo Direction: Southwest	
Photo Description: View of the advancement of temporary monitor well TMW-1.	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 59766

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 59766
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Goodnight Midstream's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/6/2021