

Incident ID	nCE2026241343
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	~148 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

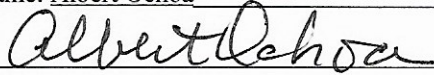
Incident ID	nCE2026241343
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Albert Ochoa

Title: HSE Representative

Signature:



Date:

11/11/20

email: albert.ochoa@goodnightmidstream.com

Telephone: 432-242-6629

OCD Only

Received by: Cristina Eads

Date: 11/11/2020

Incident ID	nCE2026241343
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Remediation Plan

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

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

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

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

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

Printed Name: Albert OchoaTitle: HSE RepresentativeSignature: Albert OchoaDate: 11/11/20email: albert.ochoa@goodnightmidstream.comTelephone: 432-242-6629
OCD Only

Received by: _____ Date: _____

☐ Approved

 ☐ Approved with Attached Conditions of Approval

 ☐ Denied

 ☐ Deferral Approved

Signature: _____

Date: _____

Incident ID	nCE2026241343
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Albert Ochoa

Title: HSE Representative

Signature: Albert Ochoa

Date: 11/11/20

email: albert.ochoa@goodnightmidstream.com

Telephone: 432-242-6629

OCD Only

Received by: Cristina Eads

Date: 11/11/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Cristina Eads

Date: 01/29/2021

Printed Name: Cristina Eads

Title: Environmental Specialist

Remediation Summary and Soil Closure Request

Goodnight Midstream Permian, LLC

Nolan Ryan SWD

Lea County, New Mexico

Unit Letter O, Section 13, Township 21 South, Range 36 East

Latitude 32.47381 North, Longitude 103.21687 West

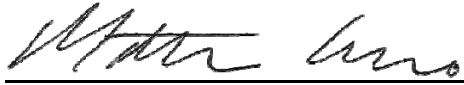
NMOCD Reference No. nCE2026241343

Prepared By:

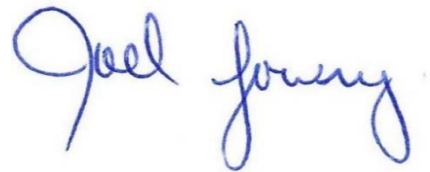
Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway

Lovington, New Mexico 88260



Matthew Grieco



Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
REMEDIATION ACTIVITIES SUMMARY.....	4.0
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN.....	5.0
SOIL CLOSURE REQUEST.....	6.0
LIMITATIONS.....	7.0
DISTRIBUTION.....	8.0

FIGURES

- Figure 1 - Topographic Map
- Figure 2 - Aerial Proximity Map
- Figure 3a - Site and Sample Location Map - Floor Samples
- Figure 3b - Site and Sample Location Map - Wall Samples

TABLES

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

APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Field Data and Soil Profile Logs
- Appendix C - Laboratory Analytical Reports
- Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Nolan Ryan SWD. Details of the release are summarized below:

Location of Release Source

Latitude: 32.47381 Longitude: -103.21687

Provided GPS are in WGS84 format.

Site Name:	Nolan Ryan SWD	Site Type:	SWD
Date Release Discovered:	9/14/2020	API # (if applicable):	30-025-45349

Unit Letter	Section	Township	Range	County
O	13	21S	36E	Lea

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

Nature and Volume of Release

☒ Crude Oil	Volume Released (bbls)	0.1	Volume Recovered (bbls)	0.1
☒ Produced Water	Volume Released (bbls)	104.4	Volume Recovered (bbls)	20.9
	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:

Release was attributed to a nipple being broken off, presumably by livestock.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	~148'	
Did the release impact groundwater or surface water?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes	☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes	☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes	☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes	☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes	☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes	☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes	☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes	☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes	☐ No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Closure Criteria for Soil Impacted by a Release

Probable Depth to Groundwater	Constituent	Method	Limit
~148'	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On September 17, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved 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.

On September 17, 2020, Etech collected eighteen (18) excavation confirmation soil samples (EW1 – EW3, SW1B, SW2, WW1B, WW2, and FL1 – FL11). The collected 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 below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On September 18, 2020, Etech collected seven (7) excavation confirmation soil samples (SW3, EW4, WW3, FL12 – FL15). The collected 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 below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On September 21, 2020, Etech collected ninety-nine (99) excavation confirmation soil samples (NW1, NW2, EW5 – EW7, SW4 – SW6, WW5, WW6, FL16 – FL104). The collected 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 below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exceptions of FL28 @ 6", which exhibited a TPH concentration of 6,230 mg/kg; and samples FL20, FL36 – FL39, FL42, FL45, FL47 – FL50, FL52, FL54 – FL56, FL58, FL60 – FL64, FL71, FL75 – FL82, FL84, FL85, FL88, FL90 – FL92, and FL94 – FL98, all at a depth of 6", each of which exhibited a chloride concentration above 20,000 mg/kg.

On September 29, 2020, excavation activities resumed at the Site. Impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the areas characterized by sample points FL20, FL28, FL36 – FL39, FL42, FL45, FL47 – FL50, FL52, FL54 – FL56, FL58, FL60 – FL64, FL71, FL75 – FL82, FL84, FL85, FL88, FL90 – FL92, and FL94 – FL98 was excavated and transported to an NMOCD-approved surface waste facility for disposal. On September 30, 2020, upon excavating impacted soil remaining in-situ, Etech collected forty-two (42) additional excavation confirmation soil samples (FL20, FL28, FL36 – FL39, FL42, FL45, FL47 – FL50, FL52, FL54 – FL56, FL58, FL60 – FL64, FL71, FL75 – FL82, FL84, FL85, FL88, FL90 – FL92, and FL94 – FL98) and submitted them to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On October 1, 2020, Etech collected three (3) excavation confirmation soil samples (NSW1B – NSW3B). The collected 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 below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

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

The final dimensions of the excavated area were 520 Ft. in length, 10 to 250 Ft. in width and ranged from 6 In. to 4 Ft. in depth. During the course of remediation activities approximately 1,250 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

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. The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight Midstream Permian, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Nolan Ryan SWD Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and Soil Closure 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.

8.0 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

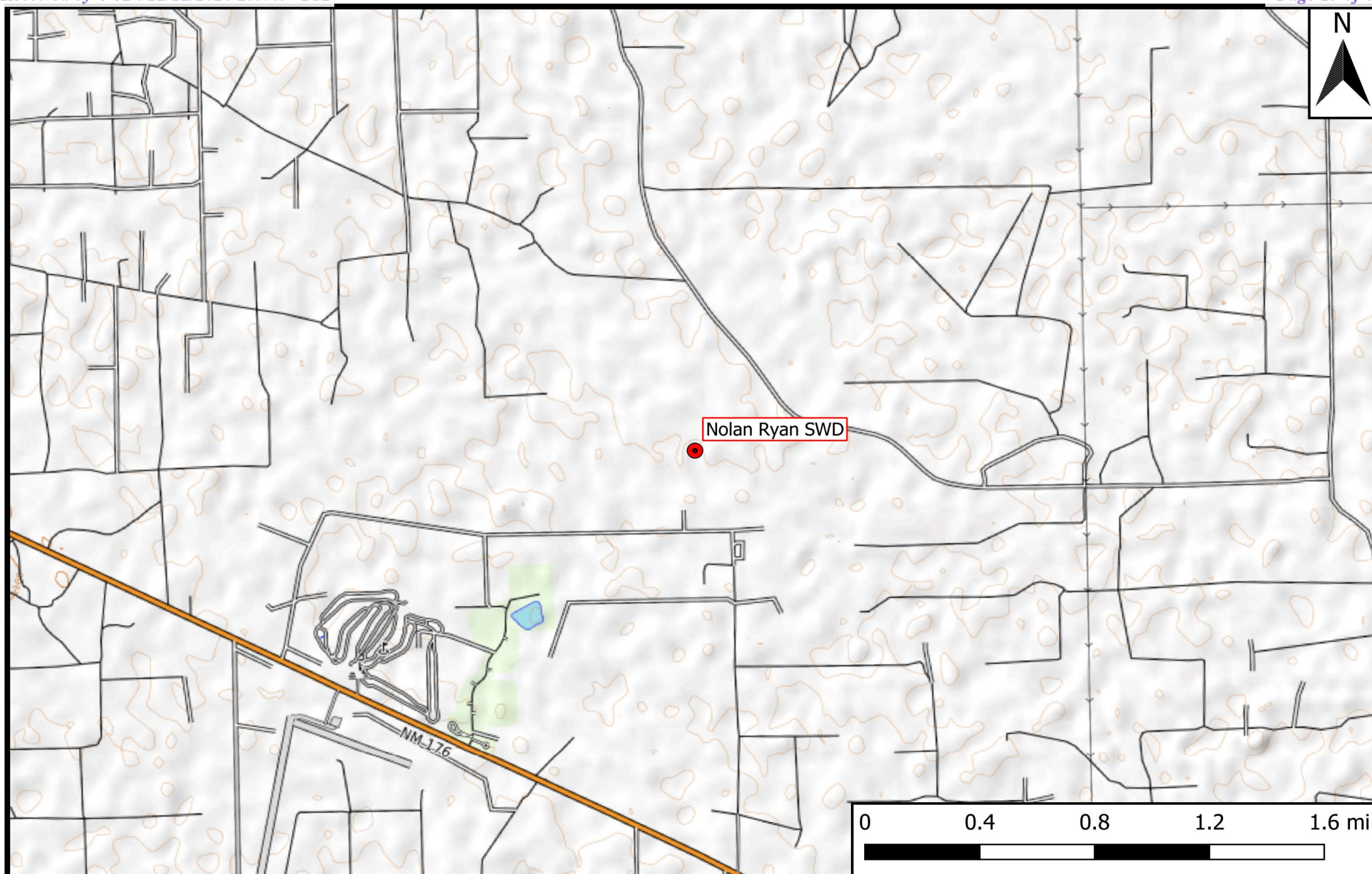
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
GPS: 32.47381, -103.21687
Lea County



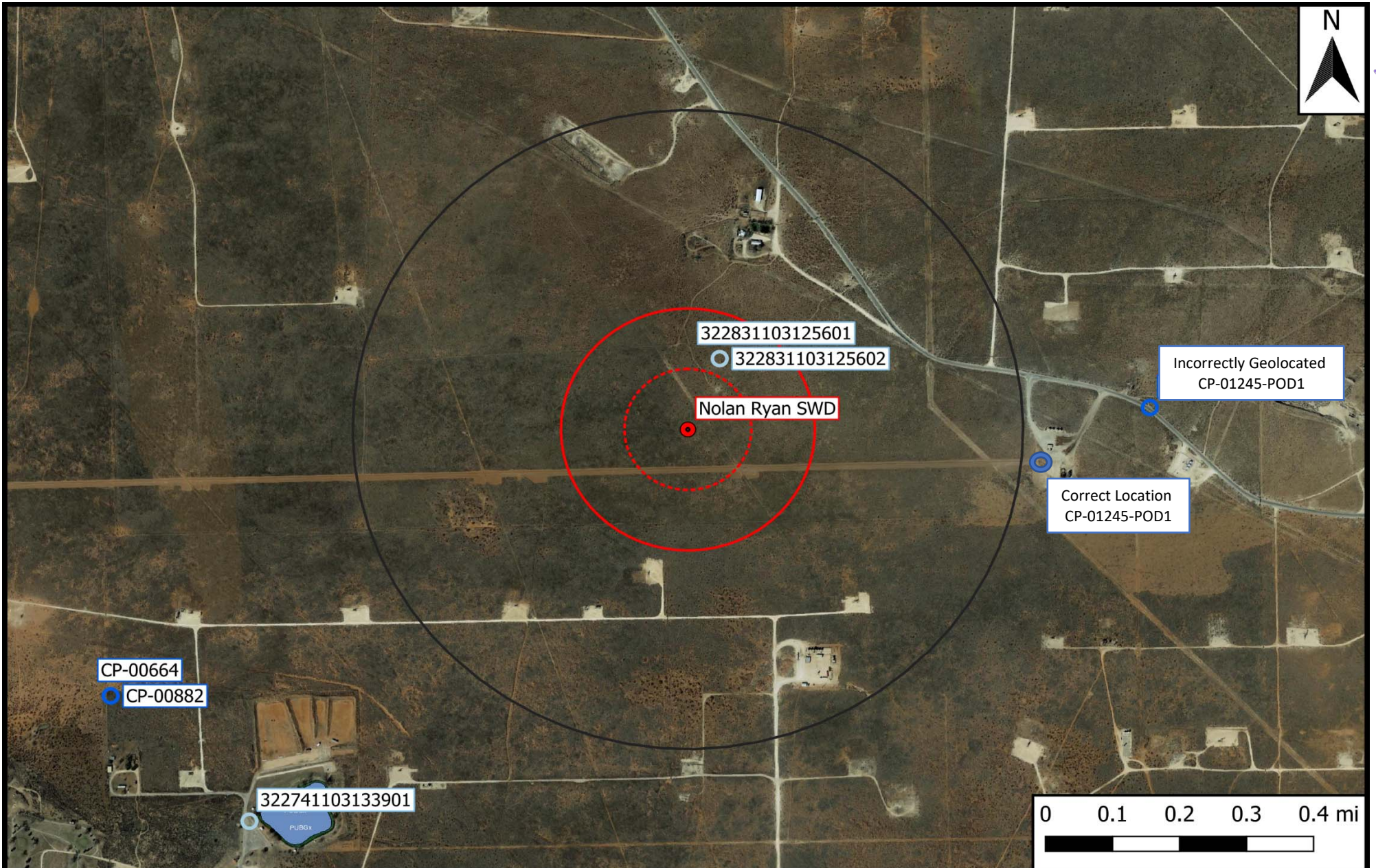
Drafted: mag

Checked: jwl

Date: 10/8/20

Figure 2

Aerial Proximity Map



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

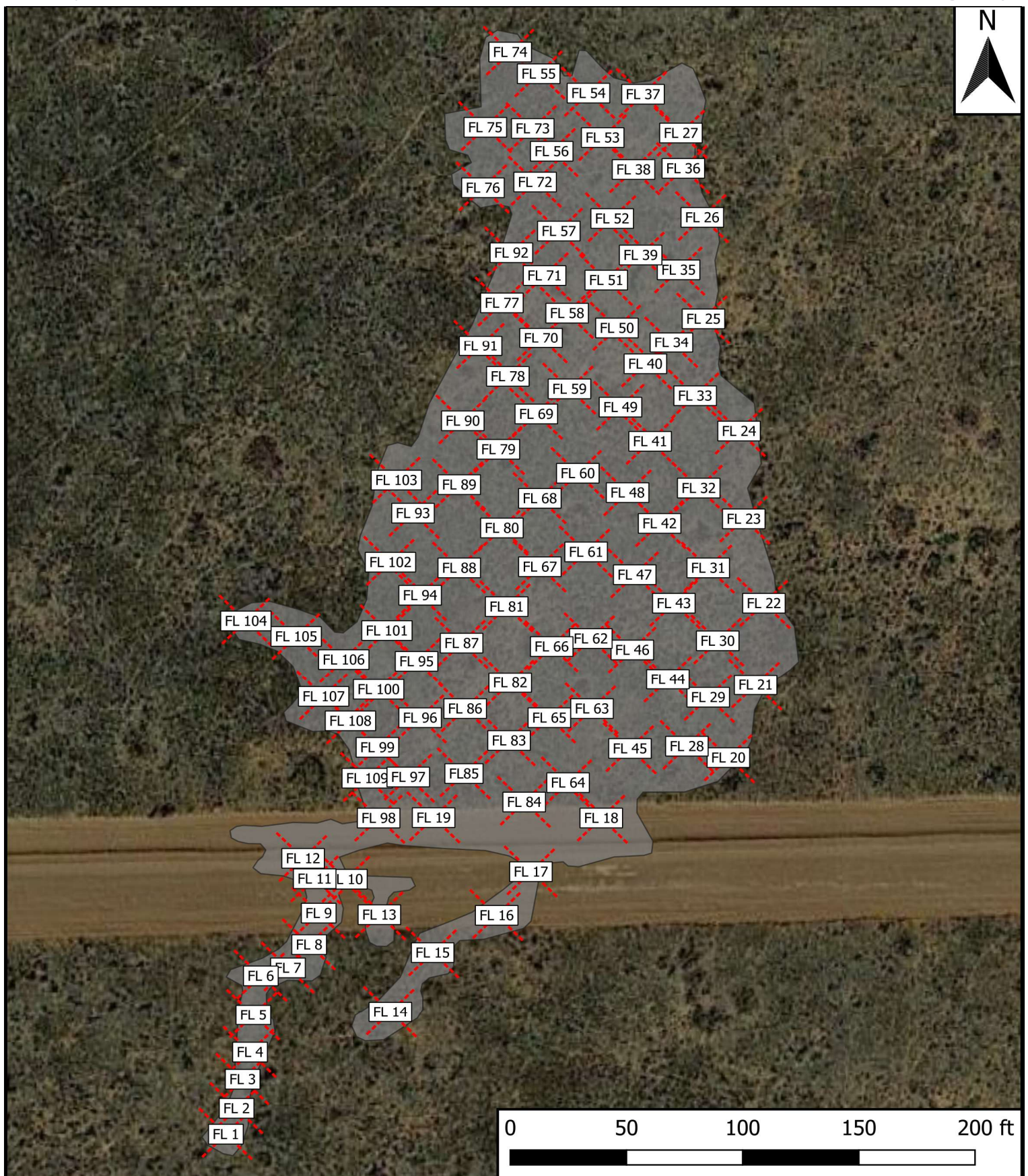
Figure 2
Aerial Map
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
GPS: 32.47381, -103.21687
Lea County



Drafted: mag Checked: jwl Date: 11/3/20

Figure 3

Site and Sample Location Map



Legend

- Excavation
- Floor Sample

Figure 3a

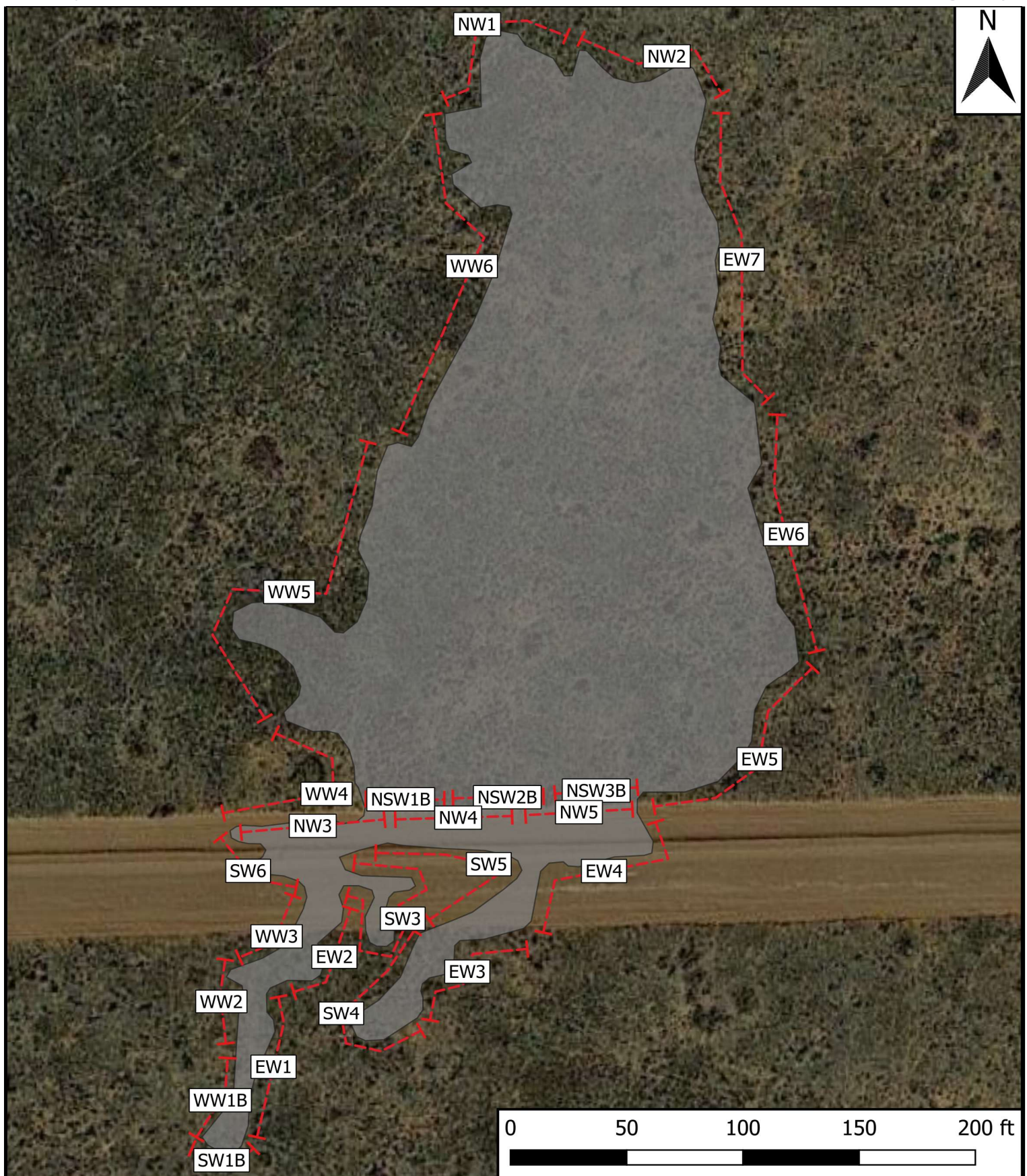
Site and Sample Location Map - Floor Samples
 Goodnight Midstream Permian, LLC
 Nolan Ryan SWD
 GPS: 32.47381, -103.21687
 Lea County



Drafted: mag

Checked: jwl

Date: 10/8/20



Legend

- Excavation
- └┘ Wall Sample

Figure 3b

Site and Sample Location Map - Wall Samples
 Goodnight Midstream Permian, LLC
 Nolan Ryan SWD
 GPS: 32.47381, -103.21687
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 10/8/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
NMOCD Ref. #: nCE2026241343

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
EW1	9/17/2020	N/A	In-Situ	<0.00201	0.00295	<50.0	<50.0	<50.0	<50.0	<50.0	15.0
SW1B	9/17/2020	N/A	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	12.1
WW1B	9/17/2020	N/A	In-Situ	<0.00200	0.00317	<50.0	<50.0	<50.0	<50.0	<50.0	35.6
FL1 @ 4'	9/17/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	56.4	56.4	<50.0	56.4	1,120
FL2 @ 4'	9/17/2020	4'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	133
FL3 @ 4'	9/17/2020	4'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	85.9
FL4 @ 4'	9/17/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	504
FL5 @ 4'	9/17/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	.	604
FL6 @ 4'	9/17/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	403
FL7 @ 4'	9/17/2020	4'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	134
FL8 @ 4'	9/17/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	69.6
FL9 @ 3'	9/17/2020	3'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	100
FL10 @ 3'	9/17/2020	3'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	233
FL11 @ 3'	9/17/2020	3'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	143
WW2	9/17/2020	N/A	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	33.3
EW2	9/17/2020	N/A	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	22.5
EW3	9/17/2020	N/A	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	58.3
SW2	9/17/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	13.4
SW3	9/18/2020	N/A	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	23.0
EW4	9/18/2020	N/A	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	82.2
WW3	9/18/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	33.0
FL12 @ 3'	9/18/2020	3'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	14.2
FL13 @ 3'	9/18/2020	3'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	28.9
FL14 @ 3'	9/18/2020	3'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	19.3
FL15 @ 4'	9/18/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	254
NW1	9/21/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	8.68
NW2	9/21/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	12.1
EW5	9/21/2020	N/A	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	22.0
EW6	9/21/2020	N/A	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	19.6
EW7	9/21/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	32.3
SW4	9/21/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	42.8
SW5	9/21/2020	N/A	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	8.77
SW6	9/21/2020	N/A	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	10.3
WW5	9/21/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
WW6	9/21/2020	N/A	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
FL 16 @4'	9/21/2020	4'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	168
FL 17 @4'	9/21/2020	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	92.9
FL 18 @4'	9/21/2020	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	5.71
FL 19 @4'	9/21/2020	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	3,910
FL 20 @6"	9/21/2020	6"	Excavated	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	24,800
FL 21 @6"	9/21/2020	6"	In-Situ	<0.00201	<0.00201	<49.9	63.9	63.9	<49.9	63.9	6,150

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
NMOCD Ref. #: nCE2026241343

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 22 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<50.0	211	211	116	327	11,800
FL 23 @6"	9/21/2020	6"	In-Situ	<0.00201	<0.00201	<49.9	89.8	89.8	<49.9	89.8	18,300
FL 24 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	18,500
FL 25 @ 6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	17,800
FL 26 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<50.0	98.4	98.4	<50.0	98.4	18,000
FL 27 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<49.8	80.7	80.7	<49.8	80.7	17,600
FL 28 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<50.0	3,840	3,840	2,390	6,230	4,160
FL 29 @6"	9/21/2020	6"	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	13,300
FL 30 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	13,200
FL 31 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	15,000
FL 32 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	13,100
FL 33@6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	848
FL 34 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	13,800
FL 35 @6"	9/21/2020	6"	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	18,600
FL 36 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	20,600
FL 37 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	29,900
FL 38 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	56.7	56.7	<50.0	56.7	27,200
FL 39 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	21,900
FL 40 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	18,900
FL 41 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	15,200
FL 42 @6"	9/21/2020	6"	Excavated	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	22,500
FL 43 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	19,200
FL 44 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	14,800
FL 45 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<49.9	78.2	78.2	50.0	128	20,100
FL 46 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	18,600
FL 47 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	31,700
FL 48 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	35,500
FL 49 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	28,200
FL 50 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	23,400
FL 51 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	18,900
FL 52 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	32,000
FL 53 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	92.9	92.9	19,800
FL 54 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	22,100
FL 55@6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	26,300
FL 56 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	30,600
FL 57 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	19,300
FL 58 @6"	9/21/2020	6"	Excavated	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	33,100
FL 59 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	19,600
FL 60 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<49.9	93.4	93.4	<49.9	93.4	45,400
FL 61 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	29,000
FL 62 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	43,700

NOTES:

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TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
NMOCD Ref. #: nCE2026241343

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 63 @6"	9/21/2020	6"	Excavated	<0.00201	<0.00201	<50.0	58.9	58.9	<50.0	58.9	31,400
FL 64 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	40,100
FL 65 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<49.9	53.5	53.5	<49.9	53.5	8,740
FL 66 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	13,000
FL 67 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	15,700
FL 68 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	8,680
FL 69 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	9,410
FL 70 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	14,600
FL 71 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	20,500
FL 72 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	4,010
FL 73 @6"	9/21/2020	6"	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	11,200
FL 74 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,050
FL 75 @6"	9/21/2020	6"	Excavated	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	24,900
FL 76 @6"	9/21/2020	6"	Excavated	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	22,000
FL 77 @6"	9/21/2020	6"	Excavated	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	36,200
FL 78 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	23,300
FL 79 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	35,900
FL 80 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	28,600
FL 81 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.8	59.8	59.8	<49.8	59.8	51,700
FL 82 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	22,100
FL 83 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	17,100
FL 84 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	25,100
FL 85 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	22,600
FL 86 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	13,300
FL 87 @6"	9/21/2020	6"	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	18,100
FL 88 @6"	9/21/2020	6"	Excavated	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	25,800
FL 89 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	71.9	71.9	83.7	156	10,100
FL 90 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	56,300
FL 91 @6"	9/21/2020	6"	Excavated	<0.00201	<0.00201	<50.0	94.7	94.7	<50.0	94.7	20,400
FL 92 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.9	57.8	57.8	<49.9	57.8	39,000
FL 93 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	18,200
FL 94 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<50.0	67.6	67.6	<50.0	67.6	47,300
FL 95 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	48,800
FL 96 @6"	9/21/2020	6"	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	56,400
FL 97 @6"	9/21/2020	6"	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	58,100
FL 98 @6"	9/21/2020	6"	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	54,200
FL 99 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	11,200
FL 100 @6"	9/21/2020	6"	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	6,270
FL 101 @6"	9/21/2020	6"	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	9,940
FL 102 @6"	9/21/2020	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	15,100
FL 103 @6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	9,530

NOTES:

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TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
NMOCD Ref. #: nCE2026241343

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 104 @ 6"	9/21/2020	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	14,700
FL20 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	364
FL28 @ 10"	9/30/2020	10"	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	28.6
FL36 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	612
FL37 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,710
FL38 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,840
FL39 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	625
FL42 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,430
FL45 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	25.7
FL47 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,240
FL48 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,830
FL49 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	564
FL50 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	611
FL52 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	698
FL54 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	4,130
FL55 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,930
FL56 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	853
FL58 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	633
FL60 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	719
FL61 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,270
FL62 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,410
FL63 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,510
FL64 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	784
FL71 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,160
FL75 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,450
FL76 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,720
FL77 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	861
FL78 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	27.8
FL79 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	729
FL80 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	105
FL81 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	714
FL82 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,420
FL84 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,170
FL85 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,160
FL88 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,140
FL90 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	592
FL91 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	810
FL92 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	556
FL94 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	954
FL95 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	1,290
FL96 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,030

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Nolan Ryan SWD
NMOCD Ref. #: nCE2026241343

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL97 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,160
FL98 @ 10"	9/30/2020	10"	In-Situ	-	-	-	-	-	-	-	2,410
NSW1B	10/1/2020	N/A	In-Situ	0.0102	0.0348	<50.0	<50.0	<50.0	<50.0	<50.0	1,090
NSW2B	10/1/2020	N/A	In-Situ	0.0234	0.0859	<49.9	<49.9	<49.9	<49.9	<49.9	160
NSW3B	10/1/2020	N/A	In-Situ	0.00677	0.0276	<49.8	<49.8	<49.8	<49.8	<49.8	189

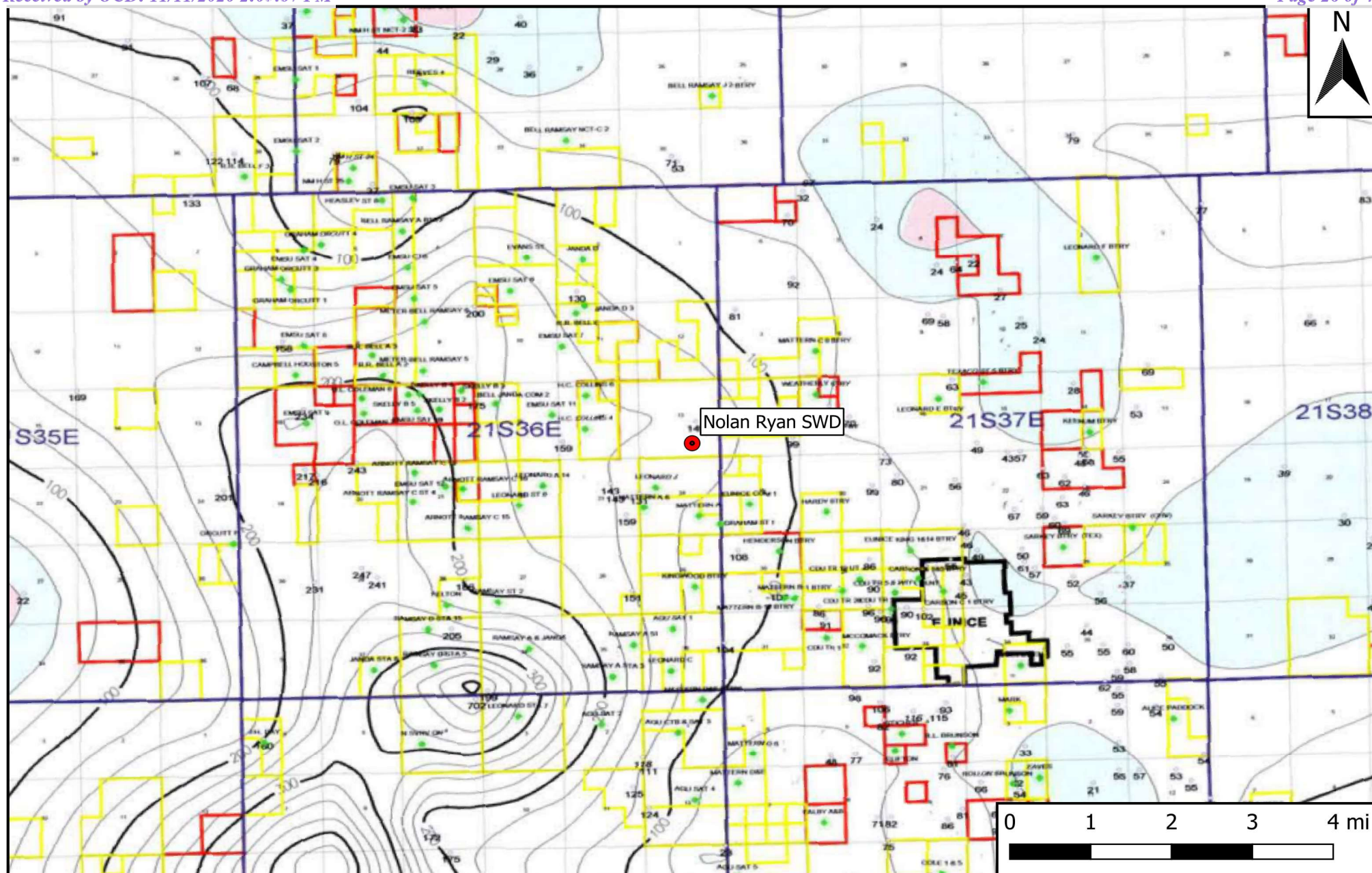
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Goodnight Midstream Permian, LLC

Nolan Ryan SWD

GPS: 32.47427, -103.21663

Lea County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 10/11/19



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP.00446 POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*	312	185	148	37
CP.00446 POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*	312	200	151	49

Average Depth to Water: **149 feet**

Minimum Depth: **148 feet**

Maximum Depth: **151 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 667565.82

Northing (Y): 3594356.18

Radius: 804.67

*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.

10/8/20 8:40 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	00446 POD2	1	4	4	13	21S	36E	667871	3594424*

x

Driller License:**Driller Company:****Driller Name:** GRDAY ROBERTS**Drill Start Date:** 12/31/1945**Drill Finish Date:** 12/31/1945**Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:** TURBIN**Pipe Discharge Size:** 4**Estimated Yield:** 120 GPM**Casing Size:** 8.63**Depth Well:** 200 feet**Depth Water:** 151 feet

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.

10/8/20 8:42 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00446 POD1	1	4	4	13	21S	36E	667871	3594424*

x

Driller License:**Driller Company:****Driller Name:** FRANK TURNER**Drill Start Date:** 10/31/1915**Drill Finish Date:** 10/31/1915**Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:** TURBIN**Pipe Discharge Size:** 2.25**Estimated Yield:** 100 GPM**Casing Size:** 8.63**Depth Well:** 185 feet**Depth Water:** 148 feet

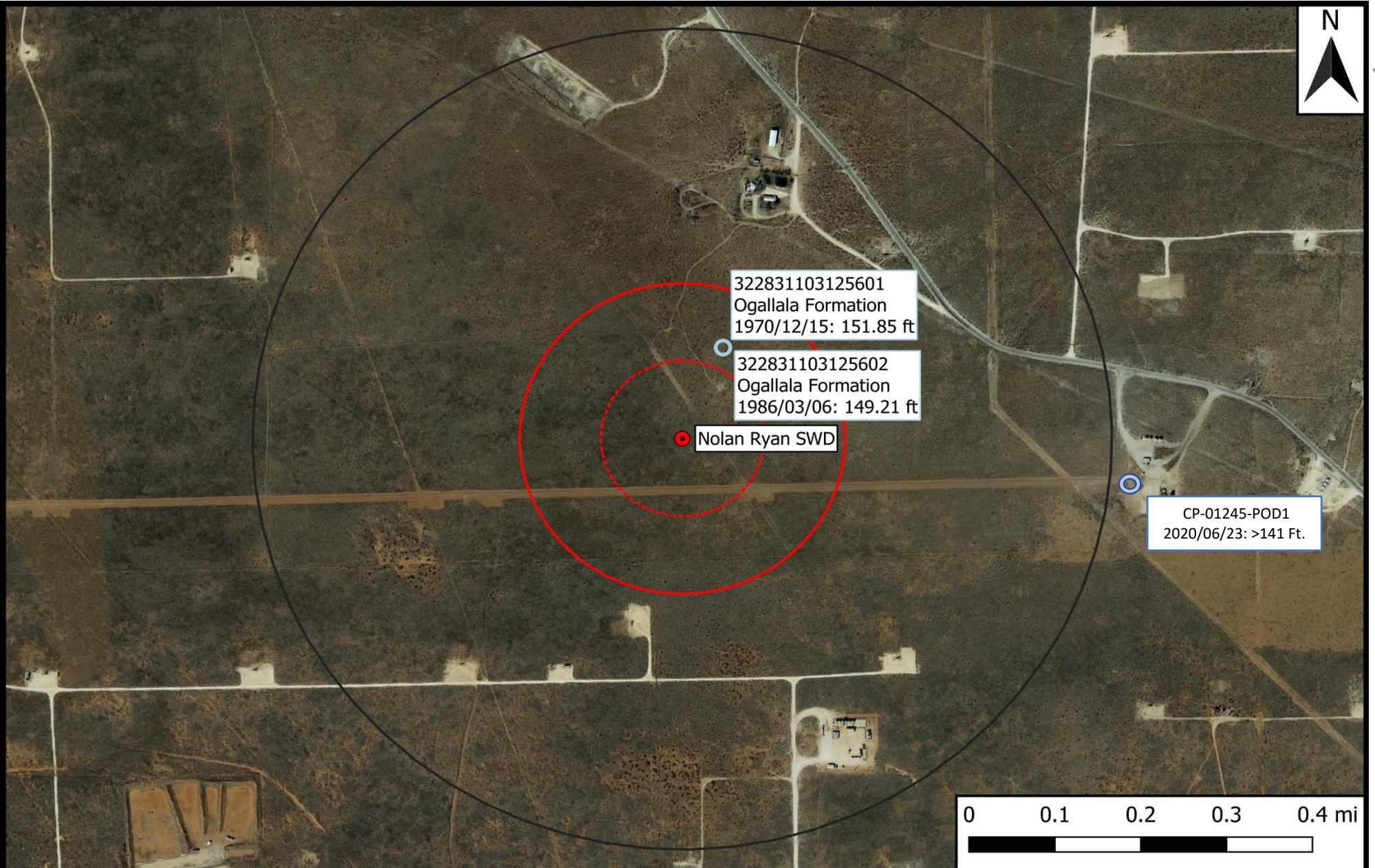
x

*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.

10/8/20 8:42 AM

POINT OF DIVERSION SUMMARY



- Legend**
- Site Location
 - Well - USGS
 - 0.5 Mi Radius
 - 1000 Ft Radius
 - 500 Foot Radius

Figure 5
 USGS Well Proximity Map
 Goodnight Midstream Permian, LLC
 Nolan Ryan SWD
 GPS: 32.47381, -103.21687
 Lea County



Drafted: mag Checked: jwl Date: 11/3/20



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322831103125602

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

USGS 322831103125602 21S.36E.13.412232

Lea County, New Mexico
Latitude 32°28'31", Longitude 103°12'56" NAD27
Land-surface elevation 3,557 feet above NAVD88
The depth of the well is 185 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water level approval status
1967-10-10			D147.44				2		U		U
1970-12-15			D147.81				2		U		U
1981-03-09			D149.29				2		U		U
1986-03-06			D149.21				2		U		U

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

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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: 2020-10-08 10:35:00 EDT

0.23 0.2 nadww01



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322831103125601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322831103125601 21S.36E.13.41223

Lea County, New Mexico
Latitude 32°28'31", Longitude 103°12'56" NAD27
Land-surface elevation 3,557 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water level approval status
1967-10-10		D	150.88			2		U			U
1968-03-19		D	150.97			2		U			U
1970-12-15		D	151.85			2	P	U			U

Explanation

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

Questions about sites/data?

Feedback on this web site

Automated retrievals

Help

Data Tips

Explanation of terms

Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
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: 2020-10-08 10:34:58 EDT
0.27 0.25 nadww01



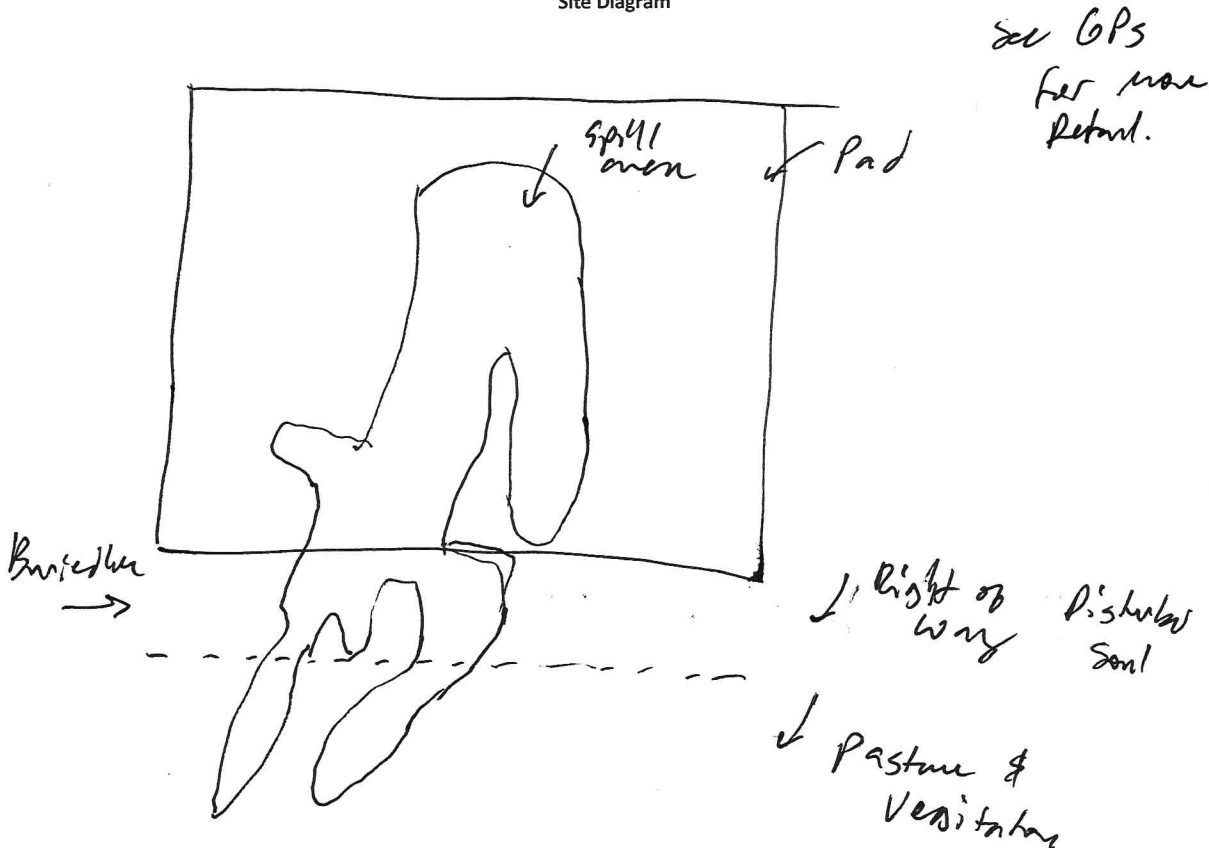
Appendix B

Field Data and Soil Profile Logs

Initial Release Assessment Form

Project: Nolan Ryan SWD Clean Up Level: 20k chl 0
 Project Number: 13084 Latitude: 32.47381 Longitude: -103.21687 Date: 9.17.20

Site Diagram



Notes: Most of spill is on pad. Some went off into south pasture.
Buried line underneath southern spill in Right of Way.

~Length: 520' ~Width: 250' ~Area: 35,000 sq ft pad
7,600 sq ft pasture Depth: 1' on pad
4' on pasture Yes No
 3-4 Representative Pictures of the Affected Area including sample locations? ☒ ☐
 Necessary Samples Field Screened and on Ice? ☒ ☐
 Sample and Field Screen Data Entered on Sample Log? ☒ ☐
 Was horizontal and vertical delineation achieved? ☒ ☐

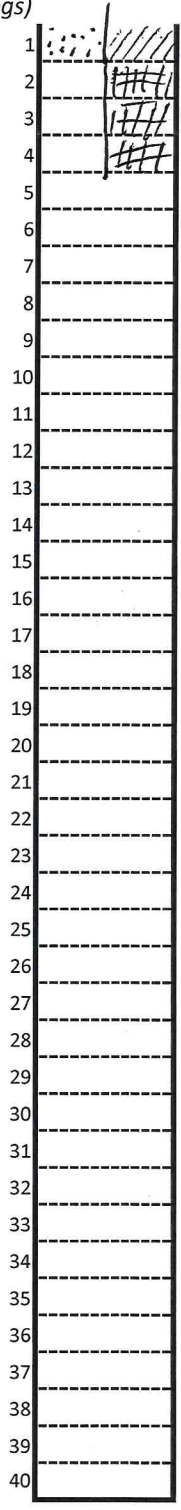


Soil Profile

Date: 9.19.20

Project: Nolan Ryan SWD
Project Number: 13084 Latitude: 32.47381 Longitude: -103.21687

Depth (ft. bgs)



Description

Caliche Pad / Red Sandy Soil
↑ red clay / sand
↓



ID	Area (Ft ²)	Depth (Ft)	%Porosity/ Saturation	Volume (Ft ³)	Volume (bbls)
Area #1	35,000	0.08	0.03	84	15.1
Area #2	7,600	0.25	0.2	380	68.4

Volume of Liquid Remaining in Soil:	83.52	bbls
Volume Recovered:	21.0	bbls
Total Volume:	104.5	bbls
Oil (Approximate)	0.10	%

Volume of Oil Released:	0.1	bbls
Volume of Water Released:	104.4	bbls

Volume of Oil Recovered:	0.1
Volume of Water Recovered:	20.9

Sample Log

Date: 9.17.20

Project: Nolan Ryan SWD

Project Number: 13084 Latitude: 32.47381 Longitude: -103.21687

Sample ID	PID/Odor	Chloride Conc.	GPS
SW1	none	4164	
WW1	none	1443	
EW1	none	>120	
SW1B	none	>120	
WW1B	none	184	
FL1@4'	none	1016	
FL2@4'	none	184	
FL3@4'	none	120	
FL4@4'	none	628	
FL5@4'	none	628	
FL6@4'	none	412	
FL7@4'	none	224	
FL8@4'	none	184	
FL9@3'	none	148	
FL10@3'	none	184	
FL11@3'	none	224	
SW2	none	120	
WW2	none	>120	
EW2	none	>120	
EW3	none	364	
SW3	none	>120	
EW4	none	>120	
WW3	none	>120	
FL12@3'	none	120	
FL13@3'	none	>120	
FL14@3'	none	184	
FL15@3'	none	628	
FL15@4'	none	527	
FL16@2'	none	688	
WW4	none	1016	
SW4	none	184	
SW5	none	>110	
SW6	none	>112	
WW5	none	>112	
WW6	none	148	
NW1	none	184	

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



Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Mon 09.21.2020 00:00
Report Date: 09.25.2020 11:20
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673087-001	673087-002	673087-003	673087-004	673087-005	673087-006
	<i>Field Id:</i>	EW1	SW1B	WW1B	FL1 @ 4'	FL2 @4'	FL3 @ 4'
	<i>Depth:</i>				4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.22.2020 17:00	09.22.2020 17:00	09.22.2020 17:00	09.22.2020 17:00	09.22.2020 17:00	09.22.2020 17:00
	<i>Analyzed:</i>	09.23.2020 14:06	09.23.2020 14:27	09.23.2020 14:49	09.23.2020 15:09	09.23.2020 15:31	09.23.2020 15:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Toluene		0.00295 0.00201	<0.00200 0.00200	0.00317 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00402 0.00402	<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398	<0.00396 0.00396
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		0.00295 0.00201	<0.00200 0.00200	0.00317 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	09.21.2020 16:10	09.21.2020 16:10	09.21.2020 16:10	09.21.2020 16:10	09.21.2020 16:10	09.21.2020 16:10
	<i>Analyzed:</i>	09.22.2020 02:21	09.22.2020 02:26	09.22.2020 02:31	09.22.2020 02:37	09.22.2020 02:42	09.22.2020 02:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		15.0 4.99	12.1 4.98	35.6 5.03	1120 4.97	133 4.99	85.9 5.02
TPH By SW8015 Mod	<i>Extracted:</i>	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30
	<i>Analyzed:</i>	09.22.2020 10:47	09.22.2020 11:45	09.22.2020 12:04	09.22.2020 12:24	09.22.2020 12:43	09.22.2020 13:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	56.4 50.0	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	56.4 50.0	<49.9 49.9	<49.8 49.8

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Mon 09.21.2020 00:00
Report Date: 09.25.2020 11:20
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673087-007	673087-008	673087-009	673087-010	673087-011	673087-012
	<i>Field Id:</i>	FL4 @ 4'	FL5 @ 4'	FL6 @ 4'	FL7 @ 4'	FL8 @ 4'	FL9 @ 3'
	<i>Depth:</i>	4- ft	4- ft	4- ft	4- ft	4- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.22.2020 17:00	09.23.2020 09:00	09.23.2020 09:00	09.23.2020 09:00	09.22.2020 17:00	09.23.2020 09:00
	<i>Analyzed:</i>	09.23.2020 16:13	09.23.2020 19:00	09.23.2020 19:20	09.23.2020 19:41	09.23.2020 08:17	09.23.2020 20:01
	<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	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.21.2020 16:10	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40
	<i>Analyzed:</i>	09.22.2020 02:52	09.22.2020 03:24	09.22.2020 03:40	09.22.2020 03:45	09.22.2020 03:50	09.22.2020 03:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		504 5.04	604 4.95	403 4.97	134 4.99	69.6 4.98	100 5.01
TPH By SW8015 Mod	<i>Extracted:</i>	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30
	<i>Analyzed:</i>	09.22.2020 13:23	09.22.2020 13:42	09.22.2020 14:02	09.22.2020 14:21	09.22.2020 15:00	09.23.2020 10:16
	<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	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Mon 09.21.2020 00:00
Report Date: 09.25.2020 11:20
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673087-013	673087-014	673087-015	673087-016	673087-017	673087-018
	<i>Field Id:</i>	FL10 @ 3'	FL11 @ 3'	WW2	EW2	EW3	SW2
	<i>Depth:</i>	3- ft	3- ft				
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 09:00	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30
	<i>Analyzed:</i>	09.23.2020 20:22	09.23.2020 13:17	09.23.2020 13:37	09.23.2020 13:58	09.23.2020 14:18	09.23.2020 12:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	<0.00397 0.00397	<0.00396 0.00396	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40
	<i>Analyzed:</i>	09.22.2020 04:11	09.22.2020 04:17	09.22.2020 04:22	09.22.2020 04:27	09.22.2020 04:33	09.22.2020 04:38
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		233 4.97	143 5.00	33.3 4.98	22.5 4.99	58.3 5.04	13.4 4.96
TPH By SW8015 Mod	<i>Extracted:</i>	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 10:30
	<i>Analyzed:</i>	09.22.2020 15:39	09.22.2020 15:58	09.22.2020 16:18	09.22.2020 16:37	09.22.2020 17:23	09.22.2020 17:42
	<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	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Mon 09.21.2020 00:00
Report Date: 09.25.2020 11:20
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673087-019	673087-020	673087-021	673087-022	673087-023	673087-024
	<i>Field Id:</i>	SW3	EW4	WW3	FL12@ 3'	FL13 @ 3'	FL14 @ 3'
	<i>Depth:</i>				3- ft	3- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.18.2020 00:00	09.18.2020 00:00	09.18.2020 00:00	09.18.2020 00:00	09.18.2020 00:00	09.18.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30	09.23.2020 09:30
	<i>Analyzed:</i>	09.23.2020 14:39	09.23.2020 14:59	09.23.2020 15:20	09.23.2020 15:40	09.23.2020 16:01	09.23.2020 17:26
	<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	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40	09.21.2020 16:40
	<i>Analyzed:</i>	09.22.2020 04:54	09.22.2020 04:59	09.22.2020 05:15	09.22.2020 05:20	09.22.2020 05:25	09.22.2020 05:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		23.0 4.98	82.2 5.04	33.0 4.97	14.2 4.99	28.9 5.04	19.3 5.02
TPH By SW8015 Mod	<i>Extracted:</i>	09.22.2020 10:30	09.22.2020 10:30	09.22.2020 12:00	09.22.2020 12:00	09.22.2020 12:00	09.22.2020 12:00
	<i>Analyzed:</i>	09.22.2020 18:01	09.22.2020 18:21	09.23.2020 09:43	09.23.2020 10:49	09.23.2020 11:11	09.23.2020 11:33
	<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	<49.8 49.8	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer

Certificate of Analysis Summary 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Mon 09.21.2020 00:00
Report Date: 09.25.2020 11:20
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 673087-025 Field Id: FL15 @ 4' Depth: 4- ft Matrix: SOIL Sampled: 09.18.2020 00:00					
BTEX by EPA 8021B	Extracted: 09.23.2020 09:30 Analyzed: 09.23.2020 17:46 Units/RL: mg/kg RL					
Benzene	<0.00200 0.00200					
Toluene	<0.00200 0.00200					
Ethylbenzene	<0.00200 0.00200					
m,p-Xylenes	<0.00401 0.00401					
o-Xylene	<0.00200 0.00200					
Total Xylenes	<0.00200 0.00200					
Total BTEX	<0.00200 0.00200					
Chloride by EPA 300	Extracted: 09.21.2020 16:40 Analyzed: 09.22.2020 05:36 Units/RL: mg/kg RL					
Chloride	254 4.96					
TPH By SW8015 Mod	Extracted: 09.22.2020 12:00 Analyzed: 09.23.2020 11:55 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<49.9 49.9					
Diesel Range Organics (DRO)	<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9					
Total TPH	<49.9 49.9					

BRL - Below Reporting Limit

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



Analytical Report 673087

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Nolan Ryan SWD

13084

09.25.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.25.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **673087**

Nolan Ryan 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 Eurofins Xenco, LLC Report Number(s) 673087. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673087 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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


 Environment Testing
Xenco

Sample Cross Reference 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
EW1	S	09.17.2020 00:00		673087-001
SW1B	S	09.17.2020 00:00		673087-002
WW1B	S	09.17.2020 00:00		673087-003
FL1 @ 4'	S	09.17.2020 00:00	4 ft	673087-004
FL2 @ 4'	S	09.17.2020 00:00	4 ft	673087-005
FL3 @ 4'	S	09.17.2020 00:00	4 ft	673087-006
FL4 @ 4'	S	09.17.2020 00:00	4 ft	673087-007
FL5 @ 4'	S	09.17.2020 00:00	4 ft	673087-008
FL6@ 4'	S	09.17.2020 00:00	4 ft	673087-009
FL7 @ 4'	S	09.17.2020 00:00	4 ft	673087-010
FL8 @ 4'	S	09.17.2020 00:00	4 ft	673087-011
FL9 @ 3'	S	09.17.2020 00:00	3 ft	673087-012
FL10 @ 3'	S	09.17.2020 00:00	3 ft	673087-013
FL11 @ 3'	S	09.17.2020 00:00	3 ft	673087-014
WW2	S	09.17.2020 00:00		673087-015
EW2	S	09.17.2020 00:00		673087-016
EW3	S	09.17.2020 00:00		673087-017
SW2	S	09.17.2020 00:00		673087-018
SW3	S	09.18.2020 00:00		673087-019
EW4	S	09.18.2020 00:00		673087-020
WW3	S	09.18.2020 00:00		673087-021
FL12@ 3'	S	09.18.2020 00:00	3 ft	673087-022
FL13 @ 3'	S	09.18.2020 00:00	3 ft	673087-023
FL14 @ 3'	S	09.18.2020 00:00	3 ft	673087-024
FL15 @ 4'	S	09.18.2020 00:00	4 ft	673087-025



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Nolan Ryan SWD

Project ID: 13084
Work Order Number(s): 673087

Report Date: 09.25.2020
Date Received: 09.21.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3137932 BTEX by EPA 8021B

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

Samples affected are: 673087-002,673087-011.

Batch: LBA-3137999 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7711993-1-BLK.



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW1** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-001 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.0	4.99	mg/kg	09.22.2020 02:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 10:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 10:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 10:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 10:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.22.2020 10:47	
o-Terphenyl	84-15-1	85	%	70-130	09.22.2020 10:47	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW1**
Lab Sample Id: 673087-001

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.23.2020 14:06	U	1
Toluene	108-88-3	0.00295	0.00201	mg/kg	09.23.2020 14:06		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.23.2020 14:06	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.23.2020 14:06	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.23.2020 14:06	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.23.2020 14:06	U	1
Total BTEX		0.00295	0.00201	mg/kg	09.23.2020 14:06		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	09.23.2020 14:06		
1,4-Difluorobenzene	540-36-3	92	%	70-130	09.23.2020 14:06		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW1B** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-002 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.1	4.98	mg/kg	09.22.2020 02:26		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 11:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 11:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 11:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 11:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	09.22.2020 11:45	
o-Terphenyl	84-15-1	82	%	70-130	09.22.2020 11:45	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW1B**
Lab Sample Id: 673087-002

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 14:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.23.2020 14:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 14:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.23.2020 14:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 14:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 14:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.23.2020 14:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.23.2020 14:27		
4-Bromofluorobenzene	460-00-4	131	%	70-130	09.23.2020 14:27	**	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW1B** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-003 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.6	5.03	mg/kg	09.22.2020 02:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 12:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 12:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 12:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 12:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-130	09.22.2020 12:04	
o-Terphenyl	84-15-1	79	%	70-130	09.22.2020 12:04	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW1B**
Lab Sample Id: 673087-003

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 14:49	U	1
Toluene	108-88-3	0.00317	0.00200	mg/kg	09.23.2020 14:49		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 14:49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.23.2020 14:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 14:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 14:49	U	1
Total BTEX		0.00317	0.00200	mg/kg	09.23.2020 14:49		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	130	%	70-130	09.23.2020 14:49		
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.23.2020 14:49		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL1 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-004 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	4.97	mg/kg	09.22.2020 02:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 12:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	56.4	50.0	mg/kg	09.22.2020 12:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 12:24	U	1
Total TPH	PHC635	56.4	50.0	mg/kg	09.22.2020 12:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.22.2020 12:24	
o-Terphenyl	84-15-1	88	%	70-130	09.22.2020 12:24	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL1 @ 4'**
Lab Sample Id: 673087-004

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 15:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 15:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 15:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 15:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 15:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 15:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 15:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	09.23.2020 15:09		
1,4-Difluorobenzene	540-36-3	91	%	70-130	09.23.2020 15:09		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL2 @4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-005 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	133	4.99	mg/kg	09.22.2020 02:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 12:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 12:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 12:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 12:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.22.2020 12:43	
o-Terphenyl	84-15-1	90	%	70-130	09.22.2020 12:43	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL2 @4'**
Lab Sample Id: 673087-005

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 15:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 15:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 15:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 15:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 15:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 15:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 15:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	70-130	09.23.2020 15:31		
4-Bromofluorobenzene	460-00-4	127	%	70-130	09.23.2020 15:31		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL3 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-006 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	85.9	5.02	mg/kg	09.22.2020 02:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.22.2020 13:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.22.2020 13:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.22.2020 13:03	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.22.2020 13:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.22.2020 13:03	
o-Terphenyl	84-15-1	89	%	70-130	09.22.2020 13:03	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL3 @ 4'**
Lab Sample Id: 673087-006

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.23.2020 15:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.23.2020 15:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.23.2020 15:52	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.23.2020 15:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.23.2020 15:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.23.2020 15:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.23.2020 15:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	09.23.2020 15:52	**	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.23.2020 15:52		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL4 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-007 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:10 Basis: Wet Weight
 Seq Number: 3137735

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	504	5.04	mg/kg	09.22.2020 02:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 13:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 13:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 13:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 13:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.22.2020 13:23	
o-Terphenyl	84-15-1	86	%	70-130	09.22.2020 13:23	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL4 @ 4'**
Lab Sample Id: 673087-007

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 16:13	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 16:13	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 16:13	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 16:13	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 16:13	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 16:13	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 16:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	70-130	09.23.2020 16:13		
4-Bromofluorobenzene	460-00-4	133	%	70-130	09.23.2020 16:13	**	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL5 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-008 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	604	4.95	mg/kg	09.22.2020 03:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 13:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 13:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 13:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 13:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.22.2020 13:42	
o-Terphenyl	84-15-1	86	%	70-130	09.22.2020 13:42	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL5 @ 4'**
Lab Sample Id: 673087-008

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:00

Basis: Wet Weight

Seq Number: 3137999

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 19:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.23.2020 19:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 19:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.23.2020 19:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 19:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 19:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.23.2020 19:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	09.23.2020 19:00		
1,4-Difluorobenzene	540-36-3	80	%	70-130	09.23.2020 19:00		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL6@ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-009 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	403	4.97	mg/kg	09.22.2020 03:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 14:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 14:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 14:02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 14:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.22.2020 14:02	
o-Terphenyl	84-15-1	89	%	70-130	09.22.2020 14:02	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL6@ 4'**
Lab Sample Id: 673087-009

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:00

Basis: Wet Weight

Seq Number: 3137999

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 19:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.23.2020 19:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 19:20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.23.2020 19:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 19:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 19:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.23.2020 19:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	09.23.2020 19:20		
1,4-Difluorobenzene	540-36-3	107	%	70-130	09.23.2020 19:20		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL7 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-010 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	4.99	mg/kg	09.22.2020 03:45		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.22.2020 14:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.22.2020 14:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.22.2020 14:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.22.2020 14:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.22.2020 14:21	
o-Terphenyl	84-15-1	87	%	70-130	09.22.2020 14:21	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL7 @ 4'**
Lab Sample Id: 673087-010

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:00

Basis: Wet Weight

Seq Number: 3137999

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 19:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 19:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 19:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 19:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 19:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 19:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 19:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	09.23.2020 19:41		
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.23.2020 19:41		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL8 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-011 Date Collected: 09.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.6	4.98	mg/kg	09.22.2020 03:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 15:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 15:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 15:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 15:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.22.2020 15:00	
o-Terphenyl	84-15-1	88	%	70-130	09.22.2020 15:00	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL8 @ 4'**
Lab Sample Id: 673087-011

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.22.2020 17:00

Basis: Wet Weight

Seq Number: 3137932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 08:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 08:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 08:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 08:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 08:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 08:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 08:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	138	%	70-130	09.23.2020 08:17	**	
1,4-Difluorobenzene	540-36-3	91	%	70-130	09.23.2020 08:17		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL9 @ 3'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-012 Date Collected: 09.17.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	100	5.01	mg/kg	09.22.2020 03:56		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.23.2020 10:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.23.2020 10:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.23.2020 10:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.23.2020 10:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.23.2020 10:16	
o-Terphenyl	84-15-1	97	%	70-130	09.23.2020 10:16	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL9 @ 3'**
Lab Sample Id: 673087-012

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:00

Basis: Wet Weight

Seq Number: 3137999

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.23.2020 20:01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.23.2020 20:01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.23.2020 20:01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.23.2020 20:01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.23.2020 20:01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.23.2020 20:01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.23.2020 20:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.23.2020 20:01		
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.23.2020 20:01		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL10 @ 3'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-013 Date Collected: 09.17.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	233	4.97	mg/kg	09.22.2020 04:11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 15:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 15:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 15:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 15:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.22.2020 15:39	
o-Terphenyl	84-15-1	91	%	70-130	09.22.2020 15:39	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL10 @ 3'**

Matrix: Soil

Date Received: 09.21.2020 00:00

Lab Sample Id: 673087-013

Date Collected: 09.17.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:00

Basis: Wet Weight

Seq Number: 3137999

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 20:22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.23.2020 20:22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 20:22	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.23.2020 20:22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 20:22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 20:22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.23.2020 20:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.23.2020 20:22		
4-Bromofluorobenzene	460-00-4	85	%	70-130	09.23.2020 20:22		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL11 @ 3'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-014 Date Collected: 09.17.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	143	5.00	mg/kg	09.22.2020 04:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 15:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 15:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 15:58	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 15:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.22.2020 15:58	
o-Terphenyl	84-15-1	90	%	70-130	09.22.2020 15:58	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL11 @ 3'**

Matrix: Soil

Date Received: 09.21.2020 00:00

Lab Sample Id: 673087-014

Date Collected: 09.17.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.23.2020 13:17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.23.2020 13:17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.23.2020 13:17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.23.2020 13:17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.23.2020 13:17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.23.2020 13:17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.23.2020 13:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.23.2020 13:17		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.23.2020 13:17		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW2** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-015 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.3	4.98	mg/kg	09.22.2020 04:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 16:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 16:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 16:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 16:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-130	09.22.2020 16:18	
o-Terphenyl	84-15-1	80	%	70-130	09.22.2020 16:18	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW2**
Lab Sample Id: 673087-015

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.23.2020 13:37	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.23.2020 13:37	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.23.2020 13:37	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.23.2020 13:37	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.23.2020 13:37	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.23.2020 13:37	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.23.2020 13:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.23.2020 13:37		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.23.2020 13:37		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW2** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-016 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.5	4.99	mg/kg	09.22.2020 04:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 16:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 16:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 16:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 16:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.22.2020 16:37	
o-Terphenyl	84-15-1	85	%	70-130	09.22.2020 16:37	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW2**
Lab Sample Id: 673087-016

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.23.2020 13:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.23.2020 13:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.23.2020 13:58	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.23.2020 13:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.23.2020 13:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.23.2020 13:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.23.2020 13:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.23.2020 13:58		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.23.2020 13:58		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW3** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-017 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.3	5.04	mg/kg	09.22.2020 04:33		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 17:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 17:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.22.2020 17:23	
o-Terphenyl	84-15-1	90	%	70-130	09.22.2020 17:23	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW3**
Lab Sample Id: 673087-017

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.23.2020 14:18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.23.2020 14:18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.23.2020 14:18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.23.2020 14:18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.23.2020 14:18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.23.2020 14:18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.23.2020 14:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.23.2020 14:18		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.23.2020 14:18		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW2** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-018 Date Collected: 09.17.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.4	4.96	mg/kg	09.22.2020 04:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.22.2020 17:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.22.2020 17:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.22.2020 17:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.22.2020 17:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.22.2020 17:42	
o-Terphenyl	84-15-1	84	%	70-130	09.22.2020 17:42	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW2**
Lab Sample Id: 673087-018

Matrix: Soil
Date Collected: 09.17.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 12:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 12:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 12:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 12:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 12:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 12:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 12:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.23.2020 12:56	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.23.2020 12:56	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW3** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-019 Date Collected: 09.18.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.0	4.98	mg/kg	09.22.2020 04:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.22.2020 18:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.22.2020 18:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.22.2020 18:01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.22.2020 18:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.22.2020 18:01	
o-Terphenyl	84-15-1	84	%	70-130	09.22.2020 18:01	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW3**
Lab Sample Id: 673087-019

Matrix: Soil
Date Collected: 09.18.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 14:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 14:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 14:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 14:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 14:39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 14:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 14:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.23.2020 14:39		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.23.2020 14:39		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW4** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-020 Date Collected: 09.18.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.2	5.04	mg/kg	09.22.2020 04:59		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 10:30 Basis: Wet Weight
 Seq Number: 3137892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.22.2020 18:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.22.2020 18:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.22.2020 18:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.22.2020 18:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.22.2020 18:21	
o-Terphenyl	84-15-1	90	%	70-130	09.22.2020 18:21	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW4**
Lab Sample Id: 673087-020

Matrix: Soil
Date Collected: 09.18.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 14:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.23.2020 14:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 14:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.23.2020 14:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 14:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 14:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.23.2020 14:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.23.2020 14:59		
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.23.2020 14:59		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW3** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-021 Date Collected: 09.18.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.0	4.97	mg/kg	09.22.2020 05:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 12:00 Basis: Wet Weight
 Seq Number: 3138026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.23.2020 09:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.23.2020 09:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.23.2020 09:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.23.2020 09:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.23.2020 09:43	
o-Terphenyl	84-15-1	91	%	70-130	09.23.2020 09:43	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW3**
Lab Sample Id: 673087-021

Matrix: Soil
Date Collected: 09.18.2020 00:00

Date Received: 09.21.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 15:20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 15:20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 15:20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 15:20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 15:20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 15:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 15:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.23.2020 15:20		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.23.2020 15:20		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL12@ 3'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-022 Date Collected: 09.18.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.2	4.99	mg/kg	09.22.2020 05:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 12:00 Basis: Wet Weight
 Seq Number: 3138026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.23.2020 10:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.23.2020 10:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.23.2020 10:49	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.23.2020 10:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.23.2020 10:49	
o-Terphenyl	84-15-1	82	%	70-130	09.23.2020 10:49	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL12@ 3'**

Matrix: Soil

Date Received: 09.21.2020 00:00

Lab Sample Id: 673087-022

Date Collected: 09.18.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.23.2020 15:40	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.23.2020 15:40	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.23.2020 15:40	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.23.2020 15:40	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.23.2020 15:40	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.23.2020 15:40	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.23.2020 15:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.23.2020 15:40		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.23.2020 15:40		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL13 @ 3'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-023 Date Collected: 09.18.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.9	5.04	mg/kg	09.22.2020 05:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 12:00 Basis: Wet Weight
 Seq Number: 3138026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.23.2020 11:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.23.2020 11:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.23.2020 11:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.23.2020 11:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.23.2020 11:11	
o-Terphenyl	84-15-1	85	%	70-130	09.23.2020 11:11	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL13 @ 3'**

Matrix: Soil

Date Received: 09.21.2020 00:00

Lab Sample Id: 673087-023

Date Collected: 09.18.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 16:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 16:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 16:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 16:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 16:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 16:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 16:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.23.2020 16:01		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.23.2020 16:01		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL14 @ 3'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-024 Date Collected: 09.18.2020 00:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.3	5.02	mg/kg	09.22.2020 05:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 12:00 Basis: Wet Weight
 Seq Number: 3138026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.23.2020 11:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.23.2020 11:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.23.2020 11:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.23.2020 11:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.23.2020 11:33	
o-Terphenyl	84-15-1	91	%	70-130	09.23.2020 11:33	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL14 @ 3'**

Matrix: Soil

Date Received: 09.21.2020 00:00

Lab Sample Id: 673087-024

Date Collected: 09.18.2020 00:00

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.23.2020 17:26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.23.2020 17:26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.23.2020 17:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.23.2020 17:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.23.2020 17:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.23.2020 17:26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.23.2020 17:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.23.2020 17:26		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.23.2020 17:26		



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL15 @ 4'** Matrix: Soil Date Received: 09.21.2020 00:00
 Lab Sample Id: 673087-025 Date Collected: 09.18.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.21.2020 16:40 Basis: Wet Weight
 Seq Number: 3137737

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	254	4.96	mg/kg	09.22.2020 05:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.22.2020 12:00 Basis: Wet Weight
 Seq Number: 3138026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.23.2020 11:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.23.2020 11:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.23.2020 11:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.23.2020 11:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.23.2020 11:55	
o-Terphenyl	84-15-1	82	%	70-130	09.23.2020 11:55	



Certificate of Analytical Results 673087

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL15 @ 4'**

Matrix: Soil

Date Received: 09.21.2020 00:00

Lab Sample Id: 673087-025

Date Collected: 09.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 09:30

Basis: Wet Weight

Seq Number: 3137992

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.23.2020 17:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.23.2020 17:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.23.2020 17:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.23.2020 17:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.23.2020 17:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.23.2020 17:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.23.2020 17:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.23.2020 17:46		
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.23.2020 17:46		

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

Nolan Ryan SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3137735

MB Sample Id: 7711762-1-BLK

Matrix: Solid

LCS Sample Id: 7711762-1-BKS

Prep Method: E300P

Date Prep: 09.21.2020

LCSD Sample Id: 7711762-1-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	262	105	261	104	90-110	0	20	mg/kg	09.22.2020 00:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3137737

MB Sample Id: 7711767-1-BLK

Matrix: Solid

LCS Sample Id: 7711767-1-BKS

Prep Method: E300P

Date Prep: 09.21.2020

LCSD Sample Id: 7711767-1-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	261	104	257	103	90-110	2	20	mg/kg	09.22.2020 03:14	

Analytical Method: Chloride by EPA 300

Seq Number: 3137735

Parent Sample Id: 673086-041

Matrix: Soil

MS Sample Id: 673086-041 S

Prep Method: E300P

Date Prep: 09.21.2020

MSD Sample Id: 673086-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.2	253	306	106	302	104	90-110	1	20	mg/kg	09.22.2020 01:49	

Analytical Method: Chloride by EPA 300

Seq Number: 3137735

Parent Sample Id: 673136-001

Matrix: Soil

MS Sample Id: 673136-001 S

Prep Method: E300P

Date Prep: 09.21.2020

MSD Sample Id: 673136-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2260	1240	3610	109	3580	106	90-110	1	20	mg/kg	09.22.2020 00:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3137737

Parent Sample Id: 673087-008

Matrix: Soil

MS Sample Id: 673087-008 S

Prep Method: E300P

Date Prep: 09.21.2020

MSD Sample Id: 673087-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	604	248	836	94	838	94	90-110	0	20	mg/kg	09.22.2020 03:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3137737

Parent Sample Id: 673087-018

Matrix: Soil

MS Sample Id: 673087-018 S

Prep Method: E300P

Date Prep: 09.21.2020

MSD Sample Id: 673087-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.4	248	276	106	275	105	90-110	0	20	mg/kg	09.22.2020 04:43	

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

Nolan Ryan SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3137892

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.22.2020

MB Sample Id: 7711883-1-BLK

LCS Sample Id: 7711883-1-BKS

LCSD Sample Id: 7711883-1-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	909	91	975	98	70-130	7	20	mg/kg	09.22.2020 19:19	
Diesel Range Organics (DRO)	<50.0	1000	922	92	991	99	70-130	7	20	mg/kg	09.22.2020 19:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		85		97		70-130	%	09.22.2020 19:19
o-Terphenyl	89		88		99		70-130	%	09.22.2020 19:19

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138026

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.22.2020

MB Sample Id: 7711968-1-BLK

LCS Sample Id: 7711968-1-BKS

LCSD Sample Id: 7711968-1-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	885	89	947	95	70-130	7	20	mg/kg	09.23.2020 08:59	
Diesel Range Organics (DRO)	<50.0	1000	848	85	942	94	70-130	11	20	mg/kg	09.23.2020 08:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		83		92		70-130	%	09.23.2020 08:59
o-Terphenyl	81		75		93		70-130	%	09.23.2020 08:59

Analytical Method: TPH By SW8015 Mod

Seq Number: 3137892

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.22.2020

MB Sample Id: 7711883-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.22.2020 19:00	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138026

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.22.2020

MB Sample Id: 7711968-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.23.2020 08:37	

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

Nolan Ryan SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3137892

Matrix: Soil

Prep Method: SW8015P

Date Prep: 09.22.2020

Parent Sample Id: 673087-001

MS Sample Id: 673087-001 S

MSD Sample Id: 673087-001 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	915	92	931	93	70-130	2	20	mg/kg	09.22.2020 11:06	
Diesel Range Organics (DRO)	<49.9	997	941	94	962	97	70-130	2	20	mg/kg	09.22.2020 11:06	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		90		70-130	%	09.22.2020 11:06
o-Terphenyl	88		89		70-130	%	09.22.2020 11:06

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138026

Matrix: Soil

Prep Method: SW8015P

Date Prep: 09.22.2020

Parent Sample Id: 673087-021

MS Sample Id: 673087-021 S

MSD Sample Id: 673087-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	862	86	917	92	70-130	6	20	mg/kg	09.23.2020 10:05	
Diesel Range Organics (DRO)	<49.9	998	851	85	904	91	70-130	6	20	mg/kg	09.23.2020 10:05	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	83		88		70-130	%	09.23.2020 10:05
o-Terphenyl	72		74		70-130	%	09.23.2020 10:05

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137932

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.22.2020

MB Sample Id: 7711936-1-BLK

LCS Sample Id: 7711936-1-BKS

LCSD Sample Id: 7711936-1-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	0.112	112	70-130	5	35	mg/kg	09.23.2020 05:44	
Toluene	<0.00200	0.100	0.107	107	0.114	114	70-130	6	35	mg/kg	09.23.2020 05:44	
Ethylbenzene	<0.00200	0.100	0.103	103	0.108	108	70-130	5	35	mg/kg	09.23.2020 05:44	
m,p-Xylenes	<0.00400	0.200	0.218	109	0.231	116	70-130	6	35	mg/kg	09.23.2020 05:44	
o-Xylene	<0.00200	0.100	0.110	110	0.116	116	70-130	5	35	mg/kg	09.23.2020 05:44	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	81		95		98		70-130	%	09.23.2020 05:44
4-Bromofluorobenzene	110		119		122		70-130	%	09.23.2020 05:44

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137999

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.23.2020

MB Sample Id: 7711993-1-BLK

LCS Sample Id: 7711993-1-BKS

LCSD Sample Id: 7711993-1-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	0.0914	91	0.102	102	70-130	11	35	mg/kg	09.23.2020 10:08	
Toluene	<0.00200	0.100	0.0985	99	0.106	106	70-130	7	35	mg/kg	09.23.2020 10:08	
Ethylbenzene	<0.00200	0.100	0.105	105	0.111	111	70-130	6	35	mg/kg	09.23.2020 10:08	
m,p-Xylenes	<0.00400	0.200	0.211	106	0.217	109	70-130	3	35	mg/kg	09.23.2020 10:08	
o-Xylene	<0.00200	0.100	0.107	107	0.104	104	70-130	3	35	mg/kg	09.23.2020 10:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		99		70-130	%	09.23.2020 10:08
4-Bromofluorobenzene	67	**	123		107		70-130	%	09.23.2020 10:08

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137992

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.23.2020

MB Sample Id: 7711989-1-BLK

LCS Sample Id: 7711989-1-BKS

LCSD Sample Id: 7711989-1-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	0.0987	99	0.0939	94	70-130	5	35	mg/kg	09.23.2020 10:02	
Toluene	<0.00200	0.100	0.0956	96	0.0920	92	70-130	4	35	mg/kg	09.23.2020 10:02	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0929	93	70-130	2	35	mg/kg	09.23.2020 10:02	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.184	92	70-130	1	35	mg/kg	09.23.2020 10:02	
o-Xylene	<0.00200	0.100	0.0938	94	0.0910	91	70-130	3	35	mg/kg	09.23.2020 10:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		98		97		70-130	%	09.23.2020 10:02
4-Bromofluorobenzene	102		96		98		70-130	%	09.23.2020 10:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137932

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.22.2020

Parent Sample Id: 673087-011

MS Sample Id: 673087-011 S

MSD Sample Id: 673087-011 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	0.0996	0.0943	95	0.0986	99	70-130	4	35	mg/kg	09.23.2020 06:25	
Toluene	<0.00199	0.0996	0.0958	96	0.0993	100	70-130	4	35	mg/kg	09.23.2020 06:25	
Ethylbenzene	<0.00199	0.0996	0.0909	91	0.0950	96	70-130	4	35	mg/kg	09.23.2020 06:25	
m,p-Xylenes	<0.00398	0.199	0.192	96	0.201	102	70-130	5	35	mg/kg	09.23.2020 06:25	
o-Xylene	<0.00199	0.0996	0.0942	95	0.101	102	70-130	7	35	mg/kg	09.23.2020 06:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		70-130	%	09.23.2020 06:25
4-Bromofluorobenzene	121		128		70-130	%	09.23.2020 06:25

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137999

Parent Sample Id: 673183-004

Matrix: Soil

MS Sample Id: 673183-004 S

Prep Method: SW5035A

Date Prep: 09.23.2020

MSD Sample Id: 673183-004 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	0.0943	95	0.0951	95	70-130	1	35	mg/kg	09.23.2020 11:09	
Toluene	<0.00199	0.0994	0.103	104	0.0987	99	70-130	4	35	mg/kg	09.23.2020 11:09	
Ethylbenzene	<0.00199	0.0994	0.109	110	0.101	101	70-130	8	35	mg/kg	09.23.2020 11:09	
m,p-Xylenes	<0.00398	0.199	0.218	110	0.197	99	70-130	10	35	mg/kg	09.23.2020 11:09	
o-Xylene	<0.00199	0.0994	0.106	107	0.0956	96	70-130	10	35	mg/kg	09.23.2020 11:09	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	09.23.2020 11:09
4-Bromofluorobenzene	121		106		70-130	%	09.23.2020 11:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137992

Parent Sample Id: 673087-018

Matrix: Soil

MS Sample Id: 673087-018 S

Prep Method: SW5035A

Date Prep: 09.23.2020

MSD Sample Id: 673087-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0883	88	0.0876	88	70-130	1	35	mg/kg	09.23.2020 11:15	
Toluene	<0.00200	0.0998	0.0867	87	0.0854	86	70-130	2	35	mg/kg	09.23.2020 11:15	
Ethylbenzene	<0.00200	0.0998	0.0864	87	0.0852	86	70-130	1	35	mg/kg	09.23.2020 11:15	
m,p-Xylenes	<0.00399	0.200	0.170	85	0.168	84	70-130	1	35	mg/kg	09.23.2020 11:15	
o-Xylene	<0.00200	0.0998	0.0846	85	0.0838	84	70-130	1	35	mg/kg	09.23.2020 11:15	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	09.23.2020 11:15
4-Bromofluorobenzene	98		99		70-130	%	09.23.2020 11:15

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

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: 673087

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Electech Environmental & Safety	Company Name:	Goednight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lawton, NM, 868260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@electechenv.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	
Project Number:	13084	Routine:	☒
Project Location:	Dural Lea County, NM	Rush:	☐
Sampler's Name:	Nigel Ramirez	Due Date:	
PO #:			

www.xenco.com Page <u>1</u> of <u>3</u>	
Work Order Comments	
Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: ☐ Level I ☐ PST/US ☐ TRR ☐ Level II ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

SAMPLE RECEIPT	
Temp Blank:	Yes ☒ No ☒
Temperature (°C):	36.4.0 Thermometer ID: 1168
Received In tact:	Yes ☒ No ☐
Cooler Custody Seals:	Yes ☒ No ☐ Correction Factor: 10.5
Sample Custody Seals:	Yes ☒ No ☐ Total Containers:

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST										
					Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005						
EW1	Soil	9.17.20			1	X	X	X							
SW1B	Soil	9.17.20			1	X	X	X							
WW1B	Soil	9.17.20			1	X	X	X							
FL1@4'	Soil	9.17.20		4'	1	X	X	X							
FL2@4'	Soil	9.17.20		4'	1	X	X	X							
FL3@4'	Soil	9.17.20		4'	1	X	X	X							
FL4@4'	Soil	9.17.20		4'	1	X	X	X							
FL5@4'	Soil	9.17.20		4'	1	X	X	X							
FL6@4'	Soil	9.17.20		4'	1	X	X	X							
FL7@4'	Soil	9.17.20		4'	1	X	X	X							

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed: 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
 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

Note: 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
<i>Joel Lowry</i>	<i>Teresa Hines</i>	9/18/20	<i>Teresa Hines</i>	<i>Michael</i>	9/17/20

XENCO**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) 756-0147, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No: **673087**

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elech 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@elecheny.com + Client
Project Name:	Nolan Ryan SWB	Turn Around	☒
Project Number:	1384	Routine:	☒
Project Location:	Rural Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Paredes	Due Date:	
PO #:			

ANALYSIS REQUEST

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

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):				Thermometer ID		
Received In tact:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

Sample Identification				Matrix	Date Sampled	Time Sampled	Depth	Number Code	Chloride B	BTEX 802	TPH Modifi	TPH TX100	TAT starts the day received by the lab, if received by 4:30pm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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FL8 @ 4'		Soil	9-17-20		4'	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

Circle Method(s) and Metal(s) to be analyzed

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

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
<i>Joel Lowry</i>	<i>Goodnight Midstream</i>	9/18/20	<i>Joel Lowry</i>	<i>Goodnight Midstream</i>	9/18/20

Chain of Custody

Work Order No: 673087

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) 565-3443, Lubbock, TX (806) 794-1266
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 766-0247, Denver, CO (303) 733-3333

Allianta, GA (770) 449-8800

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level I ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

of Containers/Preservative		ANALYSIS REQUIRED
300		
ied Ext		
5		

ST	Preservative Codes
	HNO ₃ : HN
	H ₂ SO ₄ : H2
	HCl: HL
	None: NO
	NaOH: Na
	MeOH: Me
	Zn Acetate: NaOH: Zn

Sample Identification				Matrix	Date Sampled	Time Sampled	Depth	Number Code	Chloride B	BTEX 8021	TPH Modifi	TPH TX100
WW3				So.1	9.18.20		1	X	X			
FL12@3'				So.1	9.18.20		3'	X	X			
FL13@3'				So.1	9.18.20		3'	X	X			
FL14@3'				So.1	9.18.20		3'	X	X			
FL15@4'				So.1	9.18.20		4'	X	X			

Total	200.7 / 6010	200.8 / 6020:
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Circle Method(s) and Metal(s) to be analyzed

8RCRA

TCLP / SPLP 6010: RECOVER

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xerox. Its affiliates and subsidiaries. It shall be the property of Xerox. Xerox will be liable only for the cost of samples and shall not assume any responsibility for the use of the samples. A minimum charge of \$75.00 will be assessed for each sample.

1631 / 245.1 / 7470 / 747

Relinquished by: (Signature) _____ Received by: (Signature) _____

Relinquished by: (Signature)

Received by: (Signature)

Date/Time _____

Relinquished by: (Signature)

Received by: (Signature)

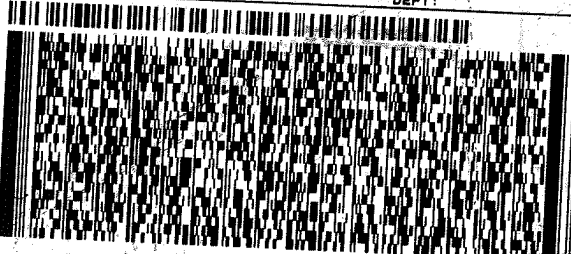
Date/Time:

Revised Date 10/11/19 Rev. 2019.

ORIGIN ID: HOBBS		18SEP20	
* MAIL SERVICES ETC 4008 N GRIMES		ACTWGT: 47.00 LB MAN	
HOBBS, NM 88240 UNITED STATES US		CAD: 0103352/CAFE3313	
		DIMS: 26x15x15 IN	
		BILL RECIPIENT	

TO: XENCO HOLD FOR PICKUP
FEDEX OFFICE PRINT & SHIP CENTER
FEDEX OFFICE PRINT & SHIP CENTER
200 W INTERSTATE 20
MIDLAND TX 79701
(432) 704-5440
INV: REF: PO: DEPT:

565C6/1545/0592

 FedEx Express  J191219082001

3 of 3
MPS# 0263 9061 5134 9690
Mstr# 9061 5134 9679 0201

41 MAFA

SATURDAY HOLD
PRIORITY OVERNIGHT
HLD
MAFKI
TX-US LBB



Page 1614000001 2020-09-12

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 09.21.2020 12.00.00 AM

Work Order #: 673087

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#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: 09.21.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.21.2020



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-001	673277-002	673277-003	673277-004	673277-005	673277-006
	<i>Field Id:</i>	NW1	NW2	EW5	EW6	EW7	SW4
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 17:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00
	<i>Analyzed:</i>	09.24.2020 15:35	09.23.2020 23:56	09.24.2020 00:16	09.24.2020 00:37	09.24.2020 00:57	09.24.2020 01:18
	<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	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 08:35	09.24.2020 08:35	09.24.2020 08:35	09.24.2020 08:35	09.24.2020 08:35	09.24.2020 08:40
	<i>Analyzed:</i>	09.24.2020 11:11	09.24.2020 11:16	09.24.2020 11:22	09.24.2020 11:27	09.24.2020 11:32	09.24.2020 09:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8.68 4.99	12.1 4.96	22.0 5.00	19.6 4.98	32.3 5.01	42.8 5.05
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00
	<i>Analyzed:</i>	09.24.2020 14:07	09.24.2020 15:13	09.24.2020 15:35	09.24.2020 15:57	09.24.2020 16:20	09.24.2020 16:42
	<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	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-007	673277-008	673277-009	673277-010	673277-011	673277-012
	<i>Field Id:</i>	SW5	SW6	WW5	WW6	FL 16 @4'	FL 17 @4'
	<i>Depth:</i>					4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00
	<i>Analyzed:</i>	09.24.2020 01:38	09.24.2020 01:59	09.24.2020 02:19	09.24.2020 02:40	09.24.2020 03:00	09.24.2020 04:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 08:40	09.24.2020 08:40	09.24.2020 08:40	09.24.2020 08:40	09.24.2020 08:40	09.24.2020 08:40
	<i>Analyzed:</i>	09.24.2020 09:31	09.24.2020 09:36	09.24.2020 09:41	09.24.2020 09:47	09.24.2020 10:02	09.24.2020 10:08
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8.77 4.96	10.3 4.98	<4.98 4.98	<4.99 4.99	168 5.01	92.9 5.04
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00
	<i>Analyzed:</i>	09.24.2020 17:26	09.24.2020 17:47	09.24.2020 18:09	09.24.2020 18:31	09.24.2020 19:15	09.24.2020 19:37
	<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	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8

BRL - Below Reporting Limit

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

Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-013	673277-014	673277-015	673277-016	673277-017	673277-018
	<i>Field Id:</i>	FL 18 @4'	FL 19 @4'	FL 20 @6"	FL 21 @6"	FL 22 @6"	FL 23 @6"
	<i>Depth:</i>	4- ft	4- ft	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.23.2020 16:00	09.24.2020 08:09	09.24.2020 08:09
	<i>Analyzed:</i>	09.24.2020 04:44	09.24.2020 05:05	09.24.2020 05:25	09.24.2020 05:46	09.24.2020 17:09	09.24.2020 17:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
m,p-Xylenes		<0.00402 0.00402	<0.00401 0.00401	<0.00402 0.00402	<0.00402 0.00402	<0.00397 0.00397	<0.00402 0.00402
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 08:40	09.24.2020 08:40	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10
	<i>Analyzed:</i>	09.24.2020 10:13	09.24.2020 10:18	09.24.2020 12:24	09.24.2020 12:08	09.24.2020 12:29	09.24.2020 12:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5.71 5.03	3910 24.9	24800 250	6150 X 50.1	11800 99.4	18300 248
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00
	<i>Analyzed:</i>	09.24.2020 19:59	09.24.2020 20:21	09.24.2020 20:43	09.24.2020 21:05	09.24.2020 21:27	09.24.2020 21:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	63.9 49.9	211 50.0	89.8 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	116 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	63.9 49.9	327 50.0	89.8 49.9

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-019	673277-020	673277-021	673277-022	673277-023	673277-024
	<i>Field Id:</i>	FL 24 @6"	FL 25 @ 6"	FL 26 @6"	FL 27 @6"	FL 28 @6"	FL 29 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.24.2020 08:09	09.24.2020 08:09	09.24.2020 08:09	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30
	<i>Analyzed:</i>	09.24.2020 17:50	09.24.2020 18:11	09.24.2020 18:31	09.23.2020 23:46	09.24.2020 00:06	09.24.2020 00:27
	<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	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00396 0.00396	<0.00398 0.00398	<0.00397 0.00397	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10
	<i>Analyzed:</i>	09.24.2020 12:40	09.24.2020 12:56	09.24.2020 13:01	09.24.2020 13:06	09.24.2020 13:22	09.24.2020 13:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		18500 251	17800 100	18000 253	17600 100	4160 25.0	13300 100
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00
	<i>Analyzed:</i>	09.24.2020 22:10	09.24.2020 22:32	09.24.2020 14:07	09.24.2020 15:13	09.24.2020 15:35	09.25.2020 08:49
	<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	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	98.4 50.0	80.7 49.8	3840 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	2390 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	98.4 50.0	80.7 49.8	6230 50.0	<50.0 50.0

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-025	673277-026	673277-027	673277-028	673277-029	673277-030
	<i>Field Id:</i>	FL 30 @6"	FL 31 @6"	FL 32 @6"	FL 33@6"	FL 34 @6"	FL 35 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30
	<i>Analyzed:</i>	09.24.2020 00:47	09.24.2020 01:08	09.24.2020 01:28	09.24.2020 01:49	09.24.2020 02:09	09.24.2020 02:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:30	09.24.2020 09:10	09.24.2020 09:10
	<i>Analyzed:</i>	09.24.2020 13:17	09.24.2020 13:38	09.24.2020 13:43	09.24.2020 12:04	09.24.2020 13:59	09.24.2020 14:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13200 101	15000 100	13100 101	848 X 4.97	13800 100	18600 250
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00
	<i>Analyzed:</i>	09.24.2020 16:20	09.24.2020 16:42	09.24.2020 17:26	09.24.2020 17:47	09.24.2020 18:09	09.24.2020 18:31
	<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	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-031	673277-032	673277-033	673277-034	673277-035	673277-036
	<i>Field Id:</i>	FL 36 @6"	FL 37 @6"	FL 38 @6"	FL 39 @6"	FL 40 @6"	FL 41 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30
	<i>Analyzed:</i>	09.24.2020 02:50	09.24.2020 04:13	09.24.2020 04:33	09.24.2020 04:54	09.24.2020 05:14	09.24.2020 05:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:10	09.24.2020 09:30
	<i>Analyzed:</i>	09.24.2020 14:09	09.24.2020 14:14	09.24.2020 14:20	09.24.2020 14:25	09.24.2020 14:30	09.24.2020 12:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		20600 250	29900 252	27200 251	21900 252	18900 252	15200 250
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00
	<i>Analyzed:</i>	09.24.2020 19:15	09.24.2020 19:37	09.24.2020 19:59	09.24.2020 20:21	09.24.2020 20:43	09.24.2020 21:05
	<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	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	56.7 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8
Total TPH		<49.8 49.8	<50.0 50.0	56.7 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-037	673277-038	673277-039	673277-040	673277-041	673277-042
	<i>Field Id:</i>	FL 42 @6"	FL 43 @6"	FL 44 @6"	FL 45 @6"	FL 46 @6"	FL 47 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.23.2020 16:30	09.24.2020 17:00
	<i>Analyzed:</i>	09.24.2020 05:55	09.24.2020 06:16	09.24.2020 06:36	09.24.2020 06:57	09.24.2020 08:32	09.24.2020 23:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30
	<i>Analyzed:</i>	09.24.2020 12:25	09.24.2020 12:30	09.24.2020 12:36	09.24.2020 12:51	09.24.2020 12:57	09.24.2020 13:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		22500 252	19200 250	14800 249	20100 250	18600 253	31700 249
TPH By SW8015 Mod	<i>Extracted:</i>	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.24.2020 12:00	09.25.2020 11:00	09.25.2020 11:00
	<i>Analyzed:</i>	09.24.2020 21:27	09.24.2020 21:49	09.24.2020 22:10	09.24.2020 22:32	09.25.2020 16:24	09.25.2020 17:35
	<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	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	78.2 49.9	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	50.0 49.9	<50.0 50.0	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	128 49.9	<50.0 50.0	<49.8 49.8

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-043	673277-044	673277-045	673277-046	673277-047	673277-048
	<i>Field Id:</i>	FL 48 @6"	FL 49 @6"	FL 50 @6"	FL 51 @6"	FL 52 @6"	FL 53 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.24.2020 08:09	09.24.2020 08:09	09.24.2020 08:09	09.24.2020 08:09	09.24.2020 08:09	09.24.2020 17:00
	<i>Analyzed:</i>	09.24.2020 18:52	09.24.2020 19:12	09.24.2020 19:33	09.24.2020 19:53	09.24.2020 20:14	09.25.2020 02:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30
	<i>Analyzed:</i>	09.24.2020 13:07	09.24.2020 13:13	09.24.2020 13:34	09.24.2020 13:39	09.24.2020 13:55	09.24.2020 14:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		35500 248	28200 249	23400 250	18900 253	32000 249	19800 249
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00
	<i>Analyzed:</i>	09.25.2020 17:58	09.25.2020 18:20	09.25.2020 18:42	09.25.2020 19:05	09.25.2020 19:27	09.25.2020 19:49
	<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	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	92.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	92.9 49.9

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-049	673277-050	673277-051	673277-052	673277-053	673277-054
	<i>Field Id:</i>	FL 54 @6"	FL 55@6"	FL 56 @6"	FL 57 @6"	FL 58 @6"	FL 59 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.24.2020 17:00	09.24.2020 17:00	09.24.2020 17:00	09.24.2020 17:00	09.24.2020 17:00	09.24.2020 17:00
	<i>Analyzed:</i>	09.25.2020 04:08	09.25.2020 04:29	09.25.2020 04:49	09.25.2020 05:10	09.25.2020 05:30	09.25.2020 05:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00396 0.00396	<0.00398 0.00398	<0.00397 0.00397	<0.00402 0.00402	<0.00401 0.00401
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 09:30	09.24.2020 10:10
	<i>Analyzed:</i>	09.24.2020 14:05	09.24.2020 14:11	09.24.2020 14:16	09.24.2020 14:21	09.24.2020 14:26	09.24.2020 15:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		22100 251	26300 251	30600 252	19300 251	33100 250	19600 252
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00
	<i>Analyzed:</i>	09.25.2020 20:11	09.25.2020 20:34	09.25.2020 21:18	09.25.2020 21:40	09.25.2020 22:03	09.25.2020 22:25
	<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	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-055	673277-056	673277-057	673277-058	673277-059	673277-060
	<i>Field Id:</i>	FL 60 @6"	FL 61 @6"	FL 62 @6"	FL 63 @6"	FL 64 @6"	FL 65 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.24.2020 17:00	09.24.2020 17:00	09.24.2020 17:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00
	<i>Analyzed:</i>	09.25.2020 06:11	09.25.2020 06:32	09.25.2020 06:52	09.25.2020 10:58	09.25.2020 11:19	09.25.2020 11:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00396 0.00396	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10
	<i>Analyzed:</i>	09.24.2020 15:22	09.24.2020 15:28	09.24.2020 15:33	09.24.2020 15:49	09.24.2020 15:54	09.25.2020 08:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		45400 249	29000 250	43700 250	31400 252	40100 251	8740 X 49.5
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00	09.25.2020 11:00
	<i>Analyzed:</i>	09.25.2020 22:47	09.25.2020 23:09	09.25.2020 23:31	09.25.2020 23:54	09.26.2020 00:16	09.26.2020 00:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		93.4 49.9	<50.0 50.0	<49.9 49.9	58.9 50.0	<50.0 50.0	53.5 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		93.4 49.9	<50.0 50.0	<49.9 49.9	58.9 50.0	<50.0 50.0	53.5 49.9

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-061	673277-062	673277-063	673277-064	673277-065	673277-066
	<i>Field Id:</i>	FL 66 @6"	FL 67 @6"	FL 68 @6"	FL 69 @6"	FL 70 @6"	FL 71 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.25.2020 16:30	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00
	<i>Analyzed:</i>	09.26.2020 02:10	09.25.2020 10:38	09.25.2020 13:24	09.25.2020 13:45	09.25.2020 14:06	09.25.2020 14:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00396 0.00396	<0.00399 0.00399	<0.00399 0.00399	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 09:30	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10
	<i>Analyzed:</i>	09.24.2020 15:59	09.25.2020 08:13	09.24.2020 13:18	09.24.2020 15:01	09.25.2020 08:18	09.25.2020 08:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13000 101	15700 99.8	8680 50.2	9410 50.1	14600 100	20500 249
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00
	<i>Analyzed:</i>	09.25.2020 16:24	09.25.2020 17:35	09.25.2020 17:58	09.25.2020 18:20	09.25.2020 18:42	09.25.2020 19:05
	<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	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-067	673277-068	673277-069	673277-070	673277-071	673277-072
	<i>Field Id:</i>	FL 72 @6"	FL 73 @6"	FL 74 @6"	FL 75 @6"	FL 76 @6"	FL 77 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00
	<i>Analyzed:</i>	09.25.2020 14:47	09.25.2020 16:37	09.25.2020 16:58	09.25.2020 17:18	09.25.2020 17:39	09.25.2020 17:59
	<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	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	<0.00401 0.00401	<0.00404 0.00404	<0.00404 0.00404	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 14:50	09.24.2020 10:10	09.24.2020 14:50	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10
	<i>Analyzed:</i>	09.24.2020 17:55	09.24.2020 16:04	09.24.2020 19:08	09.24.2020 16:20	09.24.2020 16:25	09.24.2020 16:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4010 25.0	11200 99.8	3050 25.0	24900 252	22000 252	36200 250
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00
	<i>Analyzed:</i>	09.25.2020 19:27	09.25.2020 19:49	09.25.2020 20:11	09.25.2020 20:34	09.25.2020 21:18	09.25.2020 21:40
	<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	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Total TPH		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-073	673277-074	673277-075	673277-076	673277-077	673277-078
	<i>Field Id:</i>	FL 78 @6"	FL 79 @6"	FL 80 @6"	FL 81 @6"	FL 82 @6"	FL 83 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.24.2020 16:00	09.25.2020 16:30
	<i>Analyzed:</i>	09.25.2020 18:20	09.25.2020 18:40	09.25.2020 19:01	09.25.2020 19:21	09.25.2020 19:42	09.26.2020 03:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00397 0.00397	<0.00396 0.00396	<0.00399 0.00399	<0.00396 0.00396
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 10:10	09.24.2020 14:50	09.24.2020 14:50
	<i>Analyzed:</i>	09.24.2020 16:36	09.24.2020 16:41	09.24.2020 16:46	09.24.2020 16:52	09.24.2020 18:10	09.24.2020 18:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		23300 249	35900 249	28600 249	51700 249	22100 251	17100 99.8
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 12:00
	<i>Analyzed:</i>	09.25.2020 22:03	09.25.2020 22:25	09.25.2020 22:47	09.25.2020 23:09	09.25.2020 23:31	09.25.2020 23:54
	<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	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	59.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	59.8 49.8	<50.0 50.0	<49.9 49.9

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-079	673277-080	673277-081	673277-082	673277-083	673277-084
	<i>Field Id:</i>	FL 84 @6"	FL 85 @6"	FL 86 @6"	FL 87 @6"	FL 88 @6"	FL 89 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6-	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.25.2020 16:30	09.25.2020 16:30	09.25.2020 16:30	09.25.2020 16:30	09.25.2020 16:30	09.25.2020 16:30
	<i>Analyzed:</i>	09.26.2020 03:53	09.26.2020 04:14	09.26.2020 04:34	09.25.2020 23:05	09.26.2020 04:55	09.26.2020 05:15
	<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	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00397 0.00397	<0.00399 0.00399	<0.00402 0.00402	<0.00403 0.00403	<0.00401 0.00401
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50
	<i>Analyzed:</i>	09.24.2020 18:21	09.24.2020 18:26	09.24.2020 18:42	09.24.2020 18:47	09.24.2020 18:52	09.24.2020 18:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		25100 248	22600 253	13300 101	18100 248	25800 252	10100 99.6
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 12:00	09.25.2020 12:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00
	<i>Analyzed:</i>	09.26.2020 00:16	09.26.2020 00:39	09.25.2020 12:02	09.25.2020 13:01	09.25.2020 13:20	09.25.2020 13:40
	<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	<49.8 49.8	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	71.9 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	83.7 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	156 50.0

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-085	673277-086	673277-087	673277-088	673277-089	673277-090
	<i>Field Id:</i>	FL 90 @6"	FL 91 @6"	FL 92 @6"	FL 93 @6"	FL 94 @6"	FL 95 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.25.2020 16:30	09.25.2020 16:30	09.25.2020 16:30	09.25.2020 16:30	09.26.2020 11:15	09.26.2020 11:15
	<i>Analyzed:</i>	09.26.2020 05:36	09.26.2020 05:56	09.26.2020 06:17	09.26.2020 06:37	09.26.2020 14:53	09.26.2020 15:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00397 0.00397	<0.00400 0.00400	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50
	<i>Analyzed:</i>	09.24.2020 19:03	09.24.2020 19:24	09.24.2020 19:29	09.24.2020 19:45	09.24.2020 19:50	09.24.2020 19:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		56300 250	20400 249	39000 250	18200 253	47300 249	48800 250
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00
	<i>Analyzed:</i>	09.25.2020 13:59	09.25.2020 14:18	09.25.2020 14:38	09.25.2020 14:57	09.25.2020 15:17	09.25.2020 15:36
	<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)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	94.7 50.0	57.8 49.9	<49.8 49.8	67.6 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	94.7 50.0	57.8 49.9	<49.8 49.8	67.6 50.0	<50.0 50.0

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-091	673277-092	673277-093	673277-094	673277-095	673277-096
	<i>Field Id:</i>	FL 96 @6"	FL 97 @6"	FL 98 @6"	FL 99 @6"	FL 100 @6"	FL 101 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15
	<i>Analyzed:</i>	09.26.2020 15:34	09.26.2020 15:55	09.26.2020 16:15	09.26.2020 16:36	09.26.2020 16:57	09.26.2020 17:17
	<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	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201
m,p-Xylenes		<0.00397 0.00397	<0.00398 0.00398	<0.00400 0.00400	<0.00399 0.00399	<0.00396 0.00396	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 14:50	09.24.2020 15:15	09.24.2020 15:15
	<i>Analyzed:</i>	09.24.2020 20:00	09.24.2020 20:06	09.24.2020 20:11	09.24.2020 20:16	09.24.2020 17:10	09.24.2020 17:25
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		56400 248	58100 251	54200 249	11200 100	6270 X 50.4	9940 99.6
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00
	<i>Analyzed:</i>	09.25.2020 16:15	09.25.2020 16:35	09.25.2020 16:54	09.25.2020 17:14	09.25.2020 17:34	09.25.2020 17:53
	<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	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

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Jessica Kramer



Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673277-097	673277-098	673277-099	673277-100	673277-101	673277-102
	<i>Field Id:</i>	FL 102 @6"	FL 103 @6"	FL 104 @6"	FL 105 @6"	FL 106 @6"	FL 107 @6"
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00	09.21.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15	09.26.2020 11:15
	<i>Analyzed:</i>	09.26.2020 17:38	09.26.2020 19:01	09.26.2020 19:22	09.26.2020 19:42	09.26.2020 20:03	09.26.2020 14:33
	<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	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00401 0.00401	<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	09.24.2020 15:15	09.24.2020 15:15	09.24.2020 15:15	09.24.2020 15:15	09.24.2020 15:15	09.24.2020 15:15
	<i>Analyzed:</i>	09.24.2020 17:31	09.24.2020 17:36	09.24.2020 17:41	09.24.2020 17:57	09.24.2020 18:02	09.24.2020 18:08
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		15100 250	9530 50.2	14700 99.2	3860 25.2	4300 24.9	441 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.25.2020 10:00	09.24.2020 15:00	09.24.2020 15:00
	<i>Analyzed:</i>	09.25.2020 18:13	09.25.2020 18:32	09.25.2020 18:52	09.25.2020 19:11	09.25.2020 00:22	09.25.2020 01:28
	<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	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8

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Jessica Kramer

Certificate of Analysis Summary 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 09.23.2020 11:13
Report Date: 09.28.2020 14:56
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 673277-103 Field Id: FL 108 @6" Depth: 6- In Matrix: SOIL Sampled: 09.21.2020 00:00	Lab Id: 673277-104 Field Id: FL 109 @6" Depth: 6- In Matrix: SOIL Sampled: 09.21.2020 00:00				
BTEX by EPA 8021B	Extracted: 09.26.2020 11:15 Analyzed: 09.26.2020 20:23 Units/RL: mg/kg RL	Extracted: 09.26.2020 11:15 Analyzed: 09.26.2020 20:44 Units/RL: mg/kg RL				
Benzene	<0.00198 0.00198	<0.00198 0.00198				
Toluene	<0.00198 0.00198	<0.00198 0.00198				
Ethylbenzene	<0.00198 0.00198	<0.00198 0.00198				
m,p-Xylenes	<0.00397 0.00397	<0.00396 0.00396				
o-Xylene	<0.00198 0.00198	<0.00198 0.00198				
Total Xylenes	<0.00198 0.00198	<0.00198 0.00198				
Total BTEX	<0.00198 0.00198	<0.00198 0.00198				
Chloride by EPA 300	Extracted: 09.24.2020 15:15 Analyzed: 09.24.2020 18:13 Units/RL: mg/kg RL	Extracted: 09.24.2020 15:15 Analyzed: 09.24.2020 18:18 Units/RL: mg/kg RL				
Chloride	613 5.00	10300 101				
TPH By SW8015 Mod	Extracted: 09.24.2020 15:00 Analyzed: 09.25.2020 01:50 Units/RL: mg/kg RL	Extracted: 09.24.2020 15:00 Analyzed: 09.25.2020 02:12 Units/RL: mg/kg RL				
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0				
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0				
Total TPH	<50.0 50.0	<50.0 50.0				

BRL - Below Reporting Limit

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



Analytical Report 673277

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Nolan Ryan SWD

13084

09.28.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.28.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **673277**

Nolan Ryan 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 Eurofins Xenco, LLC Report Number(s) 673277. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673277 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW1	S	09.21.2020 00:00		673277-001
NW2	S	09.21.2020 00:00		673277-002
EW5	S	09.21.2020 00:00		673277-003
EW6	S	09.21.2020 00:00		673277-004
EW7	S	09.21.2020 00:00		673277-005
SW4	S	09.21.2020 00:00		673277-006
SW5	S	09.21.2020 00:00		673277-007
SW6	S	09.21.2020 00:00		673277-008
WW5	S	09.21.2020 00:00		673277-009
WW6	S	09.21.2020 00:00		673277-010
FL 16 @4'	S	09.21.2020 00:00	4 ft	673277-011
FL 17 @4'	S	09.21.2020 00:00	4 ft	673277-012
FL 18 @4'	S	09.21.2020 00:00	4 ft	673277-013
FL 19 @4'	S	09.21.2020 00:00	4 ft	673277-014
FL 20 @6"	S	09.21.2020 00:00	6 In	673277-015
FL 21 @6"	S	09.21.2020 00:00	6 In	673277-016
FL 22 @6"	S	09.21.2020 00:00	6 In	673277-017
FL 23 @6"	S	09.21.2020 00:00	6 In	673277-018
FL 24 @6"	S	09.21.2020 00:00	6 In	673277-019
FL 25 @ 6"	S	09.21.2020 00:00	6 In	673277-020
FL 26 @6"	S	09.21.2020 00:00	6 In	673277-021
FL 27 @6"	S	09.21.2020 00:00	6 In	673277-022
FL 28 @6"	S	09.21.2020 00:00	6 In	673277-023
FL 29 @6"	S	09.21.2020 00:00	6 In	673277-024
FL 30 @6"	S	09.21.2020 00:00	6 In	673277-025
FL 31 @6"	S	09.21.2020 00:00	6 In	673277-026
FL 32 @6"	S	09.21.2020 00:00	6 In	673277-027
FL 33@6"	S	09.21.2020 00:00	6 In	673277-028
FL 34 @6"	S	09.21.2020 00:00	6 In	673277-029
FL 35 @6"	S	09.21.2020 00:00	6 In	673277-030
FL 36 @6"	S	09.21.2020 00:00	6 In	673277-031
FL 37 @6"	S	09.21.2020 00:00	6 In	673277-032
FL 38 @6"	S	09.21.2020 00:00	6 In	673277-033
FL 39 @6"	S	09.21.2020 00:00	6 In	673277-034
FL 40 @6"	S	09.21.2020 00:00	6 In	673277-035
FL 41 @6"	S	09.21.2020 00:00	6 In	673277-036
FL 42 @6"	S	09.21.2020 00:00	6 In	673277-037
FL 43 @6"	S	09.21.2020 00:00	6 In	673277-038
FL 44 @6"	S	09.21.2020 00:00	6 In	673277-039
FL 45 @6"	S	09.21.2020 00:00	6 In	673277-040
FL 46 @6"	S	09.21.2020 00:00	6 In	673277-041
FL 47 @6"	S	09.21.2020 00:00	6 In	673277-042
FL 48 @6"	S	09.21.2020 00:00	6 In	673277-043



Sample Cross Reference 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

FL 49 @6"	S	09.21.2020 00:00	6 In	673277-044
FL 50 @6"	S	09.21.2020 00:00	6 In	673277-045
FL 51 @6"	S	09.21.2020 00:00	6 In	673277-046
FL 52 @6"	S	09.21.2020 00:00	6 In	673277-047
FL 53 @6"	S	09.21.2020 00:00	6 In	673277-048
FL 54 @6"	S	09.21.2020 00:00	6 In	673277-049
FL 55 @6"	S	09.21.2020 00:00	6 In	673277-050
FL 56 @6"	S	09.21.2020 00:00	6 In	673277-051
FL 57 @6"	S	09.21.2020 00:00	6 In	673277-052
FL 58 @6"	S	09.21.2020 00:00	6 In	673277-053
FL 59 @6"	S	09.21.2020 00:00	6 In	673277-054
FL 60 @6"	S	09.21.2020 00:00	6 In	673277-055
FL 61 @6"	S	09.21.2020 00:00	6 In	673277-056
FL 62 @6"	S	09.21.2020 00:00	6 In	673277-057
FL 63 @6"	S	09.21.2020 00:00	6 In	673277-058
FL 64 @6"	S	09.21.2020 00:00	6 In	673277-059
FL 65 @6"	S	09.21.2020 00:00	6 In	673277-060
FL 66 @6"	S	09.21.2020 00:00	6 In	673277-061
FL 67 @6"	S	09.21.2020 00:00	6 In	673277-062
FL 68 @6"	S	09.21.2020 00:00	6 In	673277-063
FL 69 @6"	S	09.21.2020 00:00	6 In	673277-064
FL 70 @6"	S	09.21.2020 00:00	6 In	673277-065
FL 71 @6"	S	09.21.2020 00:00	6 In	673277-066
FL 72 @6"	S	09.21.2020 00:00	6 In	673277-067
FL 73 @6"	S	09.21.2020 00:00	6 In	673277-068
FL 74 @6"	S	09.21.2020 00:00	6 In	673277-069
FL 75 @6"	S	09.21.2020 00:00	6 In	673277-070
FL 76 @6"	S	09.21.2020 00:00	6 In	673277-071
FL 77 @6"	S	09.21.2020 00:00	6 In	673277-072
FL 78 @6"	S	09.21.2020 00:00	6 In	673277-073
FL 79 @6"	S	09.21.2020 00:00	6 In	673277-074
FL 80 @6"	S	09.21.2020 00:00	6 In	673277-075
FL 81 @6"	S	09.21.2020 00:00	6 In	673277-076
FL 82 @6"	S	09.21.2020 00:00	6 In	673277-077
FL 83 @6"	S	09.21.2020 00:00	6 In	673277-078
FL 84 @6"	S	09.21.2020 00:00	6 In	673277-079
FL 85 @6"	S	09.21.2020 00:00	6 In	673277-080
FL 86 @6"	S	09.21.2020 00:00	6 In	673277-081
FL 87 @6"	S	09.21.2020 00:00	6	673277-082
FL 88 @6"	S	09.21.2020 00:00	6 In	673277-083
FL 89 @6"	S	09.21.2020 00:00	6 In	673277-084
FL 90 @6"	S	09.21.2020 00:00	6 In	673277-085
FL 91 @6"	S	09.21.2020 00:00	6 In	673277-086
FL 92 @6"	S	09.21.2020 00:00	6 In	673277-087



Sample Cross Reference 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

FL 93 @6"	S	09.21.2020 00:00	6 In	673277-088
FL 94 @6"	S	09.21.2020 00:00	6 In	673277-089
FL 95 @6"	S	09.21.2020 00:00	6 In	673277-090
FL 96 @6"	S	09.21.2020 00:00	6 In	673277-091
FL 97 @6"	S	09.21.2020 00:00	6 In	673277-092
FL 98 @6"	S	09.21.2020 00:00	6 In	673277-093
FL 99 @6"	S	09.21.2020 00:00	6 In	673277-094
FL 100 @6"	S	09.21.2020 00:00	6 In	673277-095
FL 101 @6"	S	09.21.2020 00:00	6 In	673277-096
FL 102 @6"	S	09.21.2020 00:00	6 In	673277-097
FL 103 @6"	S	09.21.2020 00:00	6 In	673277-098
FL 104 @6"	S	09.21.2020 00:00	6 In	673277-099
FL 105 @6"	S	09.21.2020 00:00	6 In	673277-100
FL 106 @6"	S	09.21.2020 00:00	6 In	673277-101
FL 107 @6"	S	09.21.2020 00:00	6 In	673277-102
FL 108 @6"	S	09.21.2020 00:00	6 In	673277-103
FL 109 @6"	S	09.21.2020 00:00	6 In	673277-104

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Nolan Ryan SWD**Project ID: 13084
Work Order Number(s): 673277Report Date: 09.28.2020
Date Received: 09.23.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3138007 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7711997-1-BLK.

Batch: LBA-3138037 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 673277-001.

Batch: LBA-3138079 Chloride by EPA 300

Lab Sample ID 673277-023 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673277-015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -029, -030, -031, -032, -033, -034, -035.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3138081 Chloride by EPA 300

Lab Sample ID 673277-063 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 673277-028, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051, -052, -053, -063.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3138082 Chloride by EPA 300

Lab Sample ID 673277-064 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673277-054, -055, -056, -057, -058, -059, -060, -061, -062, -064, -065, -066, -068, -070, -071, -072, -073, -074, -075, -076.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Nolan Ryan SWD**Project ID: 13084
Work Order Number(s): 673277Report Date: 09.28.2020
Date Received: 09.23.2020

Batch: LBA-3138086 Chloride by EPA 300

Lab Sample ID 673278-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673277-095, -096, -097, -098, -099, -100, -101, -102, -103, -104.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3138195 BTEX by EPA 8021B

Lab Sample ID 673277-102 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, m,p-Xylenes recovered above QC limits in the Matrix Spike. Toluene recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673277-089, -090, -091, -092, -093, -094, -095, -096, -097, -098, -099, -100, -101, -102, -103, -104.

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



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NW1** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-001 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:35 Basis: Wet Weight
 Seq Number: 3138078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.68	4.99	mg/kg	09.24.2020 11:11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 14:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 14:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 14:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 14:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.24.2020 14:07	
o-Terphenyl	84-15-1	89	%	70-130	09.24.2020 14:07	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NW1**
Lab Sample Id: 673277-001

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 17:00

Basis: Wet Weight

Seq Number: 3138037

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 15:35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 15:35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 15:35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 15:35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 15:35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 15:35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 15:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	151	%	70-130	09.24.2020 15:35	**	
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.24.2020 15:35		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NW2** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-002 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:35 Basis: Wet Weight
 Seq Number: 3138078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.1	4.96	mg/kg	09.24.2020 11:16		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 15:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 15:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 15:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 15:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.24.2020 15:13	
o-Terphenyl	84-15-1	79	%	70-130	09.24.2020 15:13	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NW2**
Lab Sample Id: 673277-002

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 23:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 23:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 23:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 23:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 23:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 23:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 23:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.23.2020 23:56		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.23.2020 23:56		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW5** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-003 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:35 Basis: Wet Weight
 Seq Number: 3138078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.0	5.00	mg/kg	09.24.2020 11:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 15:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 15:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 15:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 15:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.24.2020 15:35	
o-Terphenyl	84-15-1	80	%	70-130	09.24.2020 15:35	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW5**
Lab Sample Id: 673277-003

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 00:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 00:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 00:16	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 00:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 00:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 00:16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 00:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.2020 00:16	
4-Bromofluorobenzene	460-00-4	99	%	70-130	09.24.2020 00:16	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW6** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-004 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:35 Basis: Wet Weight
 Seq Number: 3138078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.6	4.98	mg/kg	09.24.2020 11:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 15:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 15:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 15:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 15:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.24.2020 15:57	
o-Terphenyl	84-15-1	90	%	70-130	09.24.2020 15:57	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW6**
Lab Sample Id: 673277-004

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 00:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 00:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 00:37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 00:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 00:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 00:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 00:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.24.2020 00:37		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.2020 00:37		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW7** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-005 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:35 Basis: Wet Weight
 Seq Number: 3138078

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.3	5.01	mg/kg	09.24.2020 11:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 16:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 16:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 16:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 16:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.24.2020 16:20	
o-Terphenyl	84-15-1	76	%	70-130	09.24.2020 16:20	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **EW7**
Lab Sample Id: 673277-005

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 00:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 00:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 00:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 00:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 00:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 00:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 00:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 00:57		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.24.2020 00:57		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW4** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-006 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.8	5.05	mg/kg	09.24.2020 09:04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 16:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 16:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 16:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 16:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.24.2020 16:42	
o-Terphenyl	84-15-1	82	%	70-130	09.24.2020 16:42	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW4**
Lab Sample Id: 673277-006

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 01:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 01:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 01:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 01:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 01:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 01:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 01:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.24.2020 01:18		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 01:18		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW5** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-007 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.77	4.96	mg/kg	09.24.2020 09:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 17:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 17:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 17:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.24.2020 17:26	
o-Terphenyl	84-15-1	87	%	70-130	09.24.2020 17:26	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW5**
Lab Sample Id: 673277-007

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 01:38	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 01:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 01:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 01:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 01:38	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 01:38	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 01:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.24.2020 01:38		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 01:38		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW6** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-008 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.3	4.98	mg/kg	09.24.2020 09:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 17:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 17:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 17:47	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 17:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.24.2020 17:47	
o-Terphenyl	84-15-1	76	%	70-130	09.24.2020 17:47	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **SW6**
Lab Sample Id: 673277-008

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 01:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 01:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 01:59	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.2020 01:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 01:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 01:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 01:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 01:59		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.24.2020 01:59		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW5** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-009 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	09.24.2020 09:41	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 18:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 18:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 18:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 18:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.24.2020 18:09	
o-Terphenyl	84-15-1	76	%	70-130	09.24.2020 18:09	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW5**
Lab Sample Id: 673277-009

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 02:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 02:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 02:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 02:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 02:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 02:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 02:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 02:19		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.24.2020 02:19		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW6** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-010 Date Collected: 09.21.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	09.24.2020 09:47	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 18:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 18:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.24.2020 18:31	
o-Terphenyl	84-15-1	78	%	70-130	09.24.2020 18:31	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **WW6**
Lab Sample Id: 673277-010

Matrix: Soil
Date Collected: 09.21.2020 00:00

Date Received: 09.23.2020 11:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 02:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 02:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 02:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 02:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 02:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 02:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 02:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.24.2020 02:40		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 02:40		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 16 @4'** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-011 Date Collected: 09.21.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	168	5.01	mg/kg	09.24.2020 10:02		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 19:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 19:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 19:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 19:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	09.24.2020 19:15	
o-Terphenyl	84-15-1	87	%	70-130	09.24.2020 19:15	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 16 @4'**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-011

Date Collected: 09.21.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 03:00	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 03:00	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 03:00	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 03:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 03:00	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 03:00	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 03:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.24.2020 03:00		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 03:00		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 17 @4'** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-012 Date Collected: 09.21.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.9	5.04	mg/kg	09.24.2020 10:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 19:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 19:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 19:37	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 19:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.24.2020 19:37	
o-Terphenyl	84-15-1	83	%	70-130	09.24.2020 19:37	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 17 @4'**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-012

Date Collected: 09.21.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 04:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 04:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 04:24	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 04:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 04:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 04:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 04:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	09.24.2020 04:24		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 04:24		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 18 @4'** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-013 Date Collected: 09.21.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.71	5.03	mg/kg	09.24.2020 10:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 19:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 19:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 19:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 19:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.24.2020 19:59	
o-Terphenyl	84-15-1	84	%	70-130	09.24.2020 19:59	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 18 @4'**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-013

Date Collected: 09.21.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 04:44	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 04:44	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 04:44	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 04:44	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 04:44	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 04:44	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 04:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 04:44		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.24.2020 04:44		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 19 @4'** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-014 Date Collected: 09.21.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 08:40 Basis: Wet Weight
 Seq Number: 3138024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3910	24.9	mg/kg	09.24.2020 10:18		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 20:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 20:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 20:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 20:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.24.2020 20:21	
o-Terphenyl	84-15-1	88	%	70-130	09.24.2020 20:21	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 19 @4'**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-014

Date Collected: 09.21.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 05:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 05:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 05:05	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.2020 05:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 05:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 05:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 05:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 05:05		
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.24.2020 05:05		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 20 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-015

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24800	250	mg/kg	09.24.2020 12:24		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 20:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 20:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 20:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 20:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.24.2020 20:43	
o-Terphenyl	84-15-1	84	%	70-130	09.24.2020 20:43	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 20 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-015

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 05:25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 05:25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 05:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 05:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 05:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 05:25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 05:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.2020 05:25		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.24.2020 05:25		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 21 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-016

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6150	50.1	mg/kg	09.24.2020 12:08	X	10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 21:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	63.9	49.9	mg/kg	09.24.2020 21:05		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 21:05	U	1
Total TPH	PHC635	63.9	49.9	mg/kg	09.24.2020 21:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.24.2020 21:05	
o-Terphenyl	84-15-1	84	%	70-130	09.24.2020 21:05	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 21 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-016

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:00

Basis: Wet Weight

Seq Number: 3137996

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 05:46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 05:46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 05:46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 05:46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 05:46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 05:46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 05:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.24.2020 05:46		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 05:46		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 22 @6"** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-017 Date Collected: 09.21.2020 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 09:10 Basis: Wet Weight
 Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11800	99.4	mg/kg	09.24.2020 12:29		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 21:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	211	50.0	mg/kg	09.24.2020 21:27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	116	50.0	mg/kg	09.24.2020 21:27		1
Total TPH	PHC635	327	50.0	mg/kg	09.24.2020 21:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.24.2020 21:27	
o-Terphenyl	84-15-1	80	%	70-130	09.24.2020 21:27	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 22 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-017

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 17:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 17:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 17:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 17:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 17:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 17:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 17:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 17:09		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.24.2020 17:09		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 23 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-018

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18300	248	mg/kg	09.24.2020 12:35		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 21:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	89.8	49.9	mg/kg	09.24.2020 21:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 21:49	U	1
Total TPH	PHC635	89.8	49.9	mg/kg	09.24.2020 21:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.24.2020 21:49	
o-Terphenyl	84-15-1	83	%	70-130	09.24.2020 21:49	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 23 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-018

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 17:30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 17:30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 17:30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 17:30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 17:30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 17:30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 17:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 17:30		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.24.2020 17:30		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 24 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-019

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18500	251	mg/kg	09.24.2020 12:40		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 22:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 22:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 22:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 22:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.24.2020 22:10	
o-Terphenyl	84-15-1	82	%	70-130	09.24.2020 22:10	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 24 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-019

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 17:50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 17:50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 17:50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 17:50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 17:50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 17:50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 17:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.24.2020 17:50		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 17:50		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 25 @ 6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-020

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17800	100	mg/kg	09.24.2020 12:56		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138139

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 22:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 22:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 22:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 22:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	09.24.2020 22:32	
o-Terphenyl	84-15-1	86	%	70-130	09.24.2020 22:32	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 25 @ 6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-020

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 18:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 18:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 18:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 18:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 18:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 18:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 18:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.2020 18:11		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.24.2020 18:11		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 26 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-021

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18000	253	mg/kg	09.24.2020 13:01		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 14:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	98.4	50.0	mg/kg	09.24.2020 14:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 14:07	U	1
Total TPH	PHC635	98.4	50.0	mg/kg	09.24.2020 14:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.24.2020 14:07	
o-Terphenyl	84-15-1	92	%	70-130	09.24.2020 14:07	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 26 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-021

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 18:31	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 18:31	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 18:31	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.24.2020 18:31	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 18:31	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 18:31	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 18:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.24.2020 18:31		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 18:31		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 27 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-022

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17600	100	mg/kg	09.24.2020 13:06		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 15:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	80.7	49.8	mg/kg	09.24.2020 15:13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 15:13	U	1
Total TPH	PHC635	80.7	49.8	mg/kg	09.24.2020 15:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.24.2020 15:13	
o-Terphenyl	84-15-1	87	%	70-130	09.24.2020 15:13	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 27 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-022

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.23.2020 23:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.23.2020 23:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.23.2020 23:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.23.2020 23:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.23.2020 23:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.23.2020 23:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.23.2020 23:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	09.23.2020 23:46		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.23.2020 23:46		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 28 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-023

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4160	25.0	mg/kg	09.24.2020 13:22		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 15:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	3840	50.0	mg/kg	09.24.2020 15:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	2390	50.0	mg/kg	09.24.2020 15:35		1
Total TPH	PHC635	6230	50.0	mg/kg	09.24.2020 15:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.24.2020 15:35	
o-Terphenyl	84-15-1	85	%	70-130	09.24.2020 15:35	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 28 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-023

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 00:06	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 00:06	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 00:06	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 00:06	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 00:06	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 00:06	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 00:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	09.24.2020 00:06		
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.2020 00:06		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 29 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-024

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13300	100	mg/kg	09.24.2020 13:11		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 08:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 08:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 08:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 08:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	09.25.2020 08:49	
o-Terphenyl	84-15-1	103	%	70-130	09.25.2020 08:49	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 29 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-024

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 00:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 00:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 00:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 00:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 00:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 00:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 00:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	70-130	09.24.2020 00:27		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.2020 00:27		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 30 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-025

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13200	101	mg/kg	09.24.2020 13:17		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 16:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 16:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 16:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 16:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.24.2020 16:20	
o-Terphenyl	84-15-1	85	%	70-130	09.24.2020 16:20	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 30 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-025

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 00:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 00:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 00:47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.2020 00:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 00:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 00:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 00:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.2020 00:47		
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.24.2020 00:47		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 31 @6"** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-026 Date Collected: 09.21.2020 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 09:10 Basis: Wet Weight
 Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15000	100	mg/kg	09.24.2020 13:38		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 16:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 16:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 16:42	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 16:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.24.2020 16:42	
o-Terphenyl	84-15-1	83	%	70-130	09.24.2020 16:42	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 31 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-026

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 01:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 01:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 01:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 01:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 01:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 01:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 01:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.2020 01:08		
4-Bromofluorobenzene	460-00-4	94	%	70-130	09.24.2020 01:08		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 32 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-027

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13100	101	mg/kg	09.24.2020 13:43		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 17:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 17:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 17:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.24.2020 17:26	
o-Terphenyl	84-15-1	85	%	70-130	09.24.2020 17:26	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 32 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-027

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 01:28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 01:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 01:28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 01:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 01:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 01:28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 01:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.24.2020 01:28		
4-Bromofluorobenzene	460-00-4	94	%	70-130	09.24.2020 01:28		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 33@6"** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-028 Date Collected: 09.21.2020 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 09:30 Basis: Wet Weight
 Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	848	4.97	mg/kg	09.24.2020 12:04	X	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 17:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 17:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 17:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 17:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.24.2020 17:47	
o-Terphenyl	84-15-1	85	%	70-130	09.24.2020 17:47	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 33@6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-028

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 01:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 01:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 01:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 01:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 01:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 01:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 01:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.24.2020 01:49		
1,4-Difluorobenzene	540-36-3	106	%	70-130	09.24.2020 01:49		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 34 @6"** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-029 Date Collected: 09.21.2020 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 09:10 Basis: Wet Weight
 Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13800	100	mg/kg	09.24.2020 13:59		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.24.2020 12:00 Basis: Wet Weight
 Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 18:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 18:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 18:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 18:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.24.2020 18:09	
o-Terphenyl	84-15-1	85	%	70-130	09.24.2020 18:09	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 34 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-029

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 02:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 02:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 02:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 02:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 02:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 02:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 02:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.24.2020 02:09		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.2020 02:09		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 35 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-030

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18600	250	mg/kg	09.24.2020 14:04		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 18:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 18:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	09.24.2020 18:31	
o-Terphenyl	84-15-1	90	%	70-130	09.24.2020 18:31	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 35 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-030

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 02:30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 02:30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 02:30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 02:30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 02:30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 02:30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 02:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.24.2020 02:30		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.2020 02:30		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 36 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-031

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20600	250	mg/kg	09.24.2020 14:09		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 19:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 19:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 19:15	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 19:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.24.2020 19:15	
o-Terphenyl	84-15-1	86	%	70-130	09.24.2020 19:15	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 36 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-031

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 02:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 02:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 02:50	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.2020 02:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 02:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 02:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 02:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.24.2020 02:50		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.2020 02:50		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 37 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-032

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29900	252	mg/kg	09.24.2020 14:14		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 19:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 19:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 19:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 19:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.24.2020 19:37	
o-Terphenyl	84-15-1	88	%	70-130	09.24.2020 19:37	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 37 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-032

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 04:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 04:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 04:13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 04:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 04:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 04:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 04:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	70-130	09.24.2020 04:13		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.2020 04:13		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 38 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-033

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27200	251	mg/kg	09.24.2020 14:20		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 19:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	56.7	50.0	mg/kg	09.24.2020 19:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 19:59	U	1
Total TPH	PHC635	56.7	50.0	mg/kg	09.24.2020 19:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.24.2020 19:59	
o-Terphenyl	84-15-1	88	%	70-130	09.24.2020 19:59	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 38 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-033

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 04:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 04:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 04:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 04:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 04:33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 04:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 04:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.24.2020 04:33		
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.24.2020 04:33		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 39 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-034

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21900	252	mg/kg	09.24.2020 14:25		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 20:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 20:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 20:21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 20:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.24.2020 20:21	
o-Terphenyl	84-15-1	89	%	70-130	09.24.2020 20:21	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 39 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-034

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 04:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 04:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 04:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 04:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 04:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 04:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 04:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	70-130	09.24.2020 04:54		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.2020 04:54		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 40 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-035

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:10

Basis: Wet Weight

Seq Number: 3138079

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18900	252	mg/kg	09.24.2020 14:30		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 20:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 20:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 20:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 20:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.24.2020 20:43	
o-Terphenyl	84-15-1	83	%	70-130	09.24.2020 20:43	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 40 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-035

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 05:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 05:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 05:14	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 05:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 05:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 05:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 05:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.2020 05:14		
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.24.2020 05:14		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 41 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-036

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15200	250	mg/kg	09.24.2020 12:20		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.24.2020 21:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.24.2020 21:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.24.2020 21:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.24.2020 21:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.24.2020 21:05	
o-Terphenyl	84-15-1	85	%	70-130	09.24.2020 21:05	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 41 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-036

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 05:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 05:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 05:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.24.2020 05:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 05:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 05:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 05:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	09.24.2020 05:35		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.2020 05:35		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 42 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-037

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22500	252	mg/kg	09.24.2020 12:25		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 21:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 21:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 21:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 21:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.24.2020 21:27	
o-Terphenyl	84-15-1	83	%	70-130	09.24.2020 21:27	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 42 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-037

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.24.2020 05:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.24.2020 05:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.24.2020 05:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.24.2020 05:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.24.2020 05:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.24.2020 05:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.24.2020 05:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.24.2020 05:55		
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.24.2020 05:55		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 43 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-038

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19200	250	mg/kg	09.24.2020 12:30		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.24.2020 21:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.24.2020 21:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.24.2020 21:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.24.2020 21:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.24.2020 21:49	
o-Terphenyl	84-15-1	84	%	70-130	09.24.2020 21:49	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 43 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-038

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 06:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 06:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 06:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 06:16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 06:16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 06:16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 06:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.24.2020 06:16		
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.24.2020 06:16		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 44 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-039

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14800	249	mg/kg	09.24.2020 12:36		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 22:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.24.2020 22:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.24.2020 22:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.24.2020 22:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.24.2020 22:10	
o-Terphenyl	84-15-1	84	%	70-130	09.24.2020 22:10	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 44 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-039

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 06:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 06:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 06:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 06:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 06:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 06:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 06:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.24.2020 06:36		
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.24.2020 06:36		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 45 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-040

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20100	250	mg/kg	09.24.2020 12:51		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 12:00

Basis: Wet Weight

Seq Number: 3138141

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.24.2020 22:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	78.2	49.9	mg/kg	09.24.2020 22:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	50.0	49.9	mg/kg	09.24.2020 22:32		1
Total TPH	PHC635	128	49.9	mg/kg	09.24.2020 22:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.24.2020 22:32	
o-Terphenyl	84-15-1	87	%	70-130	09.24.2020 22:32	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 45 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-040

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 06:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 06:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 06:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 06:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 06:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 06:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 06:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	09.24.2020 06:57		
1,4-Difluorobenzene	540-36-3	106	%	70-130	09.24.2020 06:57		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 46 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-041

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18600	253	mg/kg	09.24.2020 12:57		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.25.2020 16:24	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 16:24	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 46 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-041

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.23.2020 16:30

Basis: Wet Weight

Seq Number: 3138007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 08:32	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 08:32	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 08:32	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 08:32	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 08:32	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 08:32	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 08:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.24.2020 08:32		
4-Bromofluorobenzene	460-00-4	94	%	70-130	09.24.2020 08:32		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 47 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-042

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31700	249	mg/kg	09.24.2020 13:02		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 17:35	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.25.2020 17:35	
o-Terphenyl	84-15-1	91	%	70-130	09.25.2020 17:35	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 47 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-042

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 23:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 23:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 23:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 23:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 23:39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 23:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 23:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.24.2020 23:39		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.24.2020 23:39		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 48 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-043

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35500	248	mg/kg	09.24.2020 13:07		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 17:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 17:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 17:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 17:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 17:58	
o-Terphenyl	84-15-1	93	%	70-130	09.25.2020 17:58	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 48 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-043

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 18:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 18:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 18:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 18:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 18:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 18:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 18:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 18:52		
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.24.2020 18:52		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 49 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-044

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28200	249	mg/kg	09.24.2020 13:13		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.25.2020 18:20	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 18:20	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 49 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-044

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.24.2020 19:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.24.2020 19:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.24.2020 19:12	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.24.2020 19:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.24.2020 19:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.24.2020 19:12	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.24.2020 19:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 19:12		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.24.2020 19:12		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 50 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-045

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23400	250	mg/kg	09.24.2020 13:34		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 18:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 18:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 18:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 18:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.25.2020 18:42	
o-Terphenyl	84-15-1	88	%	70-130	09.25.2020 18:42	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 50 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-045

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 19:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 19:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 19:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 19:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 19:33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 19:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 19:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.24.2020 19:33		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.24.2020 19:33		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 51 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-046

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18900	253	mg/kg	09.24.2020 13:39		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 19:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.25.2020 19:05	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 19:05	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 51 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-046

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.24.2020 19:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.24.2020 19:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.24.2020 19:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.24.2020 19:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.24.2020 19:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.24.2020 19:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.24.2020 19:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	09.24.2020 19:53		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 19:53		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 52 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-047

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32000	249	mg/kg	09.24.2020 13:55		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 19:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 19:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 19:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.25.2020 19:27	
o-Terphenyl	84-15-1	85	%	70-130	09.25.2020 19:27	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 52 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-047

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 08:09

Basis: Wet Weight

Seq Number: 3138039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.24.2020 20:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.24.2020 20:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.24.2020 20:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.24.2020 20:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.24.2020 20:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.24.2020 20:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.24.2020 20:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.24.2020 20:14		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.24.2020 20:14		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 53 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-048

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19800	249	mg/kg	09.24.2020 14:00		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 19:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 19:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	92.9	49.9	mg/kg	09.25.2020 19:49		1
Total TPH	PHC635	92.9	49.9	mg/kg	09.25.2020 19:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.25.2020 19:49	
o-Terphenyl	84-15-1	82	%	70-130	09.25.2020 19:49	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 53 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-048

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 02:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 02:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 02:44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.25.2020 02:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 02:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 02:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 02:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.25.2020 02:44		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 02:44		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 54 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-049

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22100	251	mg/kg	09.24.2020 14:05		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 20:11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 20:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.25.2020 20:11	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 20:11	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 54 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-049

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 04:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 04:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 04:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 04:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 04:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 04:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 04:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.25.2020 04:08		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.25.2020 04:08		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 55@6"** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-050 Date Collected: 09.21.2020 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 09:30 Basis: Wet Weight
 Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26300	251	mg/kg	09.24.2020 14:11		50

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.25.2020 11:00 Basis: Wet Weight
 Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 20:34	
o-Terphenyl	84-15-1	94	%	70-130	09.25.2020 20:34	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 55@6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-050

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 04:29	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 04:29	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 04:29	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.25.2020 04:29	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 04:29	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 04:29	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 04:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.25.2020 04:29		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 04:29		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 56 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-051

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30600	252	mg/kg	09.24.2020 14:16		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.25.2020 21:18	
o-Terphenyl	84-15-1	93	%	70-130	09.25.2020 21:18	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 56 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-051

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 04:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 04:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 04:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 04:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 04:49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 04:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 04:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 04:49		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.25.2020 04:49		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 57 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-052

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19300	251	mg/kg	09.24.2020 14:21		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 21:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 21:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 21:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 21:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 21:40	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 21:40	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 57 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-052

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 05:10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 05:10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 05:10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.25.2020 05:10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 05:10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 05:10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 05:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.25.2020 05:10		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 05:10		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 58 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-053

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33100	250	mg/kg	09.24.2020 14:26		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 22:03	
o-Terphenyl	84-15-1	88	%	70-130	09.25.2020 22:03	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 58 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-053

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.25.2020 05:30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.25.2020 05:30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.25.2020 05:30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.25.2020 05:30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.25.2020 05:30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.25.2020 05:30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.25.2020 05:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 05:30		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.25.2020 05:30		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 59 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-054

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19600	252	mg/kg	09.24.2020 15:17		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 22:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 22:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 22:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 22:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.25.2020 22:25	
o-Terphenyl	84-15-1	90	%	70-130	09.25.2020 22:25	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 59 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-054

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 05:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 05:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 05:51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.25.2020 05:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 05:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 05:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 05:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 05:51		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.25.2020 05:51		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 60 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-055

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	45400	249	mg/kg	09.24.2020 15:22		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 22:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	93.4	49.9	mg/kg	09.25.2020 22:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 22:47	U	1
Total TPH	PHC635	93.4	49.9	mg/kg	09.25.2020 22:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.25.2020 22:47	
o-Terphenyl	84-15-1	86	%	70-130	09.25.2020 22:47	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 60 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-055

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 06:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 06:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 06:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.25.2020 06:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 06:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 06:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 06:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 06:11		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.25.2020 06:11		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 61 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-056

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29000	250	mg/kg	09.24.2020 15:28		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 23:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 23:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 23:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 23:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	09.25.2020 23:09	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 23:09	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 61 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-056

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 06:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 06:32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 06:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 06:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 06:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 06:32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 06:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.25.2020 06:32		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 06:32		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 62 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-057

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43700	250	mg/kg	09.24.2020 15:33		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 23:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 23:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 23:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 23:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	09.25.2020 23:31	
o-Terphenyl	84-15-1	87	%	70-130	09.25.2020 23:31	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 62 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-057

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 17:00

Basis: Wet Weight

Seq Number: 3138093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 06:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 06:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 06:52	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.25.2020 06:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 06:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 06:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 06:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.25.2020 06:52		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 06:52		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 63 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-058

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31400	252	mg/kg	09.24.2020 15:49		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 23:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	58.9	50.0	mg/kg	09.25.2020 23:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 23:54	U	1
Total TPH	PHC635	58.9	50.0	mg/kg	09.25.2020 23:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.25.2020 23:54	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 23:54	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 63 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-058

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.25.2020 10:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.25.2020 10:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.25.2020 10:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.25.2020 10:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.25.2020 10:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.25.2020 10:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.25.2020 10:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.25.2020 10:58		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 10:58		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 64 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-059

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40100	251	mg/kg	09.24.2020 15:54		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.26.2020 00:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.26.2020 00:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.26.2020 00:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.26.2020 00:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.26.2020 00:16	
o-Terphenyl	84-15-1	95	%	70-130	09.26.2020 00:16	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 64 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-059

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 11:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 11:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 11:19	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.25.2020 11:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 11:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 11:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 11:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.25.2020 11:19		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 11:19		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 65 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-060

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8740	49.5	mg/kg	09.25.2020 08:24	X	10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 11:00

Basis: Wet Weight

Seq Number: 3138219

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.26.2020 00:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	53.5	49.9	mg/kg	09.26.2020 00:39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.26.2020 00:39	U	1
Total TPH	PHC635	53.5	49.9	mg/kg	09.26.2020 00:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.26.2020 00:39	
o-Terphenyl	84-15-1	82	%	70-130	09.26.2020 00:39	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 65 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-060

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 11:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 11:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 11:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 11:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 11:39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 11:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 11:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.25.2020 11:39		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 11:39		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 66 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-061

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13000	101	mg/kg	09.24.2020 15:59		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 16:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.25.2020 16:24	
o-Terphenyl	84-15-1	87	%	70-130	09.25.2020 16:24	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 66 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-061

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 02:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 02:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 02:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 02:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 02:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 02:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 02:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 02:10		
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.26.2020 02:10		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 67 @6"** Matrix: Soil Date Received: 09.23.2020 11:13
 Lab Sample Id: 673277-062 Date Collected: 09.21.2020 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.24.2020 10:10 Basis: Wet Weight
 Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15700	99.8	mg/kg	09.25.2020 08:13		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.25.2020 12:00 Basis: Wet Weight
 Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 17:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.25.2020 17:35	
o-Terphenyl	84-15-1	85	%	70-130	09.25.2020 17:35	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 67 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-062

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 10:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 10:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 10:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 10:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 10:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 10:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 10:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.25.2020 10:38		
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.25.2020 10:38		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 68 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-063

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 09:30

Basis: Wet Weight

Seq Number: 3138081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8680	50.2	mg/kg	09.24.2020 13:18		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 17:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 17:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 17:58	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 17:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 17:58	
o-Terphenyl	84-15-1	85	%	70-130	09.25.2020 17:58	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 68 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-063

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 13:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 13:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 13:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.25.2020 13:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 13:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 13:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 13:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.25.2020 13:24		
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.25.2020 13:24		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 69 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-064

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9410	50.1	mg/kg	09.24.2020 15:01		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	09.25.2020 18:20	
o-Terphenyl	84-15-1	96	%	70-130	09.25.2020 18:20	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 69 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-064

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 13:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 13:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 13:45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.25.2020 13:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 13:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 13:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 13:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.25.2020 13:45	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 13:45	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 70 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-065

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14600	100	mg/kg	09.25.2020 08:18		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 18:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 18:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 18:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 18:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.25.2020 18:42	
o-Terphenyl	84-15-1	84	%	70-130	09.25.2020 18:42	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 70 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-065

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 14:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 14:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 14:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.25.2020 14:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 14:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 14:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 14:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.25.2020 14:06		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 14:06		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 71 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-066

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20500	249	mg/kg	09.25.2020 08:39		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 19:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.25.2020 19:05	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 19:05	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 71 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-066

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 14:26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 14:26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 14:26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.25.2020 14:26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 14:26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 14:26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 14:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.25.2020 14:26		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 14:26		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 72 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-067

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4010	25.0	mg/kg	09.24.2020 17:55		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 19:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 19:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 19:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	09.25.2020 19:27	
o-Terphenyl	84-15-1	93	%	70-130	09.25.2020 19:27	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 72 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-067

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 14:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 14:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 14:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 14:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 14:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 14:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 14:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 14:47		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.25.2020 14:47		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 73 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-068

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11200	99.8	mg/kg	09.24.2020 16:04		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 19:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 19:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 19:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 19:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 19:49	
o-Terphenyl	84-15-1	83	%	70-130	09.25.2020 19:49	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 73 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-068

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.25.2020 16:37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.25.2020 16:37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.25.2020 16:37	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.25.2020 16:37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.25.2020 16:37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.25.2020 16:37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.25.2020 16:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.25.2020 16:37		
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.25.2020 16:37		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 74 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-069

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3050	25.0	mg/kg	09.24.2020 19:08		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 20:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 20:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.25.2020 20:11	
o-Terphenyl	84-15-1	90	%	70-130	09.25.2020 20:11	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 74 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-069

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 16:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 16:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 16:58	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.25.2020 16:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 16:58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 16:58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 16:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	09.25.2020 16:58		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.25.2020 16:58		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 75 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-070

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24900	252	mg/kg	09.24.2020 16:20		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 20:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.25.2020 20:34	
o-Terphenyl	84-15-1	84	%	70-130	09.25.2020 20:34	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 75 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-070

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.25.2020 17:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.25.2020 17:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.25.2020 17:18	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.25.2020 17:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.25.2020 17:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.25.2020 17:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.25.2020 17:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.25.2020 17:18		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.25.2020 17:18		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 76 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-071

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22000	252	mg/kg	09.24.2020 16:25		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 21:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	09.25.2020 21:18	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 21:18	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 76 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-071

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.25.2020 17:39	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.25.2020 17:39	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.25.2020 17:39	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.25.2020 17:39	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.25.2020 17:39	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.25.2020 17:39	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.25.2020 17:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.25.2020 17:39		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 17:39		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 77 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-072

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36200	250	mg/kg	09.24.2020 16:31		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 21:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 21:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 21:40	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 21:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.25.2020 21:40	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 21:40	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 77 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-072

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.25.2020 17:59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.25.2020 17:59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.25.2020 17:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.25.2020 17:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.25.2020 17:59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.25.2020 17:59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.25.2020 17:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 17:59		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.25.2020 17:59		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 78 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-073

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23300	249	mg/kg	09.24.2020 16:36		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 22:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.25.2020 22:03	
o-Terphenyl	84-15-1	85	%	70-130	09.25.2020 22:03	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 78 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-073

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 18:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 18:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 18:20	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.25.2020 18:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 18:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 18:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 18:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 18:20		
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.25.2020 18:20		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 79 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-074

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35900	249	mg/kg	09.24.2020 16:41		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 22:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 22:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 22:25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 22:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.25.2020 22:25	
o-Terphenyl	84-15-1	84	%	70-130	09.25.2020 22:25	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 79 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-074

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.2020 18:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.2020 18:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.2020 18:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.2020 18:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.25.2020 18:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.25.2020 18:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.25.2020 18:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.25.2020 18:40		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 18:40		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 80 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-075

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28600	249	mg/kg	09.24.2020 16:46		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 22:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 22:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 22:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 22:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.25.2020 22:47	
o-Terphenyl	84-15-1	86	%	70-130	09.25.2020 22:47	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 80 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-075

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 19:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 19:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 19:01	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.25.2020 19:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 19:01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 19:01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 19:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.25.2020 19:01		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 19:01		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 81 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-076

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 10:10

Basis: Wet Weight

Seq Number: 3138082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51700	249	mg/kg	09.24.2020 16:52		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 23:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	59.8	49.8	mg/kg	09.25.2020 23:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 23:09	U	1
Total TPH	PHC635	59.8	49.8	mg/kg	09.25.2020 23:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	09.25.2020 23:09	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 23:09	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 81 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-076

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.25.2020 19:21	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.25.2020 19:21	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.25.2020 19:21	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.25.2020 19:21	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.25.2020 19:21	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.25.2020 19:21	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.25.2020 19:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.25.2020 19:21		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 19:21		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 82 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-077

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22100	251	mg/kg	09.24.2020 18:10		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 23:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 23:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 23:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 23:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.25.2020 23:31	
o-Terphenyl	84-15-1	82	%	70-130	09.25.2020 23:31	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 82 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-077

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.24.2020 16:00

Basis: Wet Weight

Seq Number: 3138188

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.2020 19:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.2020 19:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.2020 19:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.25.2020 19:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.25.2020 19:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.25.2020 19:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.25.2020 19:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.25.2020 19:42		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.25.2020 19:42		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 83 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-078

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17100	99.8	mg/kg	09.24.2020 18:16		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 23:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 23:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 23:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 23:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	09.25.2020 23:54	
o-Terphenyl	84-15-1	78	%	70-130	09.25.2020 23:54	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 83 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-078

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 03:33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 03:33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 03:33	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.26.2020 03:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 03:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 03:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 03:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.26.2020 03:33		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 03:33		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 84 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-079

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25100	248	mg/kg	09.24.2020 18:21		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.26.2020 00:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.26.2020 00:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.26.2020 00:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.26.2020 00:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.26.2020 00:16	
o-Terphenyl	84-15-1	79	%	70-130	09.26.2020 00:16	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 84 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-079

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 03:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 03:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 03:53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 03:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 03:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 03:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 03:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.26.2020 03:53		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 03:53		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 85 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-080

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22600	253	mg/kg	09.24.2020 18:26		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 12:00

Basis: Wet Weight

Seq Number: 3138222

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.26.2020 00:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.26.2020 00:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.26.2020 00:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.26.2020 00:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.26.2020 00:39	
o-Terphenyl	84-15-1	84	%	70-130	09.26.2020 00:39	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 85 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-080

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 04:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 04:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 04:14	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 04:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 04:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 04:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 04:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.26.2020 04:14		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 04:14		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 86 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-081

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13300	101	mg/kg	09.24.2020 18:42		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 12:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 12:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 12:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 12:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	09.25.2020 12:02	
o-Terphenyl	84-15-1	78	%	70-130	09.25.2020 12:02	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 86 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-081

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 04:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 04:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 04:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 04:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 04:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 04:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 04:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.26.2020 04:34		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 04:34		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 87 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-082

Date Collected: 09.21.2020 00:00

Sample Depth: 6

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18100	248	mg/kg	09.24.2020 18:47		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 13:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 13:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 13:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 13:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.25.2020 13:01	
o-Terphenyl	84-15-1	87	%	70-130	09.25.2020 13:01	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 87 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-082

Date Collected: 09.21.2020 00:00

Sample Depth: 6

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.25.2020 23:05	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.25.2020 23:05	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.25.2020 23:05	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.25.2020 23:05	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.25.2020 23:05	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.25.2020 23:05	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.25.2020 23:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.25.2020 23:05		
4-Bromofluorobenzene	460-00-4	109	%	70-130	09.25.2020 23:05		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 88 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-083

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25800	252	mg/kg	09.24.2020 18:52		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 13:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 13:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 13:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 13:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.25.2020 13:20	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 13:20	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 88 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-083

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.26.2020 04:55	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.26.2020 04:55	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.26.2020 04:55	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.26.2020 04:55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.26.2020 04:55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.26.2020 04:55	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.26.2020 04:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.26.2020 04:55		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 04:55		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 89 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-084

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10100	99.6	mg/kg	09.24.2020 18:58		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 13:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	71.9	50.0	mg/kg	09.25.2020 13:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	83.7	50.0	mg/kg	09.25.2020 13:40		1
Total TPH	PHC635	156	50.0	mg/kg	09.25.2020 13:40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.25.2020 13:40	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 13:40	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 89 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-084

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 05:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 05:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 05:15	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.26.2020 05:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 05:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 05:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 05:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.26.2020 05:15		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 05:15		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 90 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-085

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56300	250	mg/kg	09.24.2020 19:03		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 13:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 13:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 13:59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 13:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.25.2020 13:59	
o-Terphenyl	84-15-1	86	%	70-130	09.25.2020 13:59	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 90 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-085

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 05:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 05:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 05:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 05:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 05:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 05:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 05:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.26.2020 05:36		
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.26.2020 05:36		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 91 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-086

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20400	249	mg/kg	09.24.2020 19:24		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 14:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	94.7	50.0	mg/kg	09.25.2020 14:18		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 14:18	U	1
Total TPH	PHC635	94.7	50.0	mg/kg	09.25.2020 14:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.25.2020 14:18	
o-Terphenyl	84-15-1	109	%	70-130	09.25.2020 14:18	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 91 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-086

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.26.2020 05:56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.26.2020 05:56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.26.2020 05:56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.26.2020 05:56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.26.2020 05:56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.26.2020 05:56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.26.2020 05:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.26.2020 05:56	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.26.2020 05:56	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 92 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-087

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39000	250	mg/kg	09.24.2020 19:29		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 14:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	57.8	49.9	mg/kg	09.25.2020 14:38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 14:38	U	1
Total TPH	PHC635	57.8	49.9	mg/kg	09.25.2020 14:38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.25.2020 14:38	
o-Terphenyl	84-15-1	96	%	70-130	09.25.2020 14:38	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 92 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-087

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 06:17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 06:17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 06:17	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 06:17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 06:17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 06:17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 06:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.26.2020 06:17		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.26.2020 06:17		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 93 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-088

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18200	253	mg/kg	09.24.2020 19:45		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 14:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 14:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 14:57	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 14:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.25.2020 14:57	
o-Terphenyl	84-15-1	105	%	70-130	09.25.2020 14:57	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 93 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-088

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.25.2020 16:30

Basis: Wet Weight

Seq Number: 3138189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 06:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 06:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 06:37	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.26.2020 06:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 06:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 06:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 06:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.26.2020 06:37		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.26.2020 06:37		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 94 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-089

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47300	249	mg/kg	09.24.2020 19:50		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 15:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	67.6	50.0	mg/kg	09.25.2020 15:17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 15:17	U	1
Total TPH	PHC635	67.6	50.0	mg/kg	09.25.2020 15:17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.25.2020 15:17	
o-Terphenyl	84-15-1	97	%	70-130	09.25.2020 15:17	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 94 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-089

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 14:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 14:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 14:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 14:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 14:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 14:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 14:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.26.2020 14:53		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 14:53		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 95 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-090

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48800	250	mg/kg	09.24.2020 19:55		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 15:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 15:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 15:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 15:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.25.2020 15:36	
o-Terphenyl	84-15-1	95	%	70-130	09.25.2020 15:36	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 95 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-090

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 15:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 15:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 15:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 15:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 15:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 15:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 15:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.26.2020 15:14		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 15:14		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 96 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-091

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56400	248	mg/kg	09.24.2020 20:00		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 16:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 16:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 16:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 16:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.25.2020 16:15	
o-Terphenyl	84-15-1	103	%	70-130	09.25.2020 16:15	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 96 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-091

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 15:34	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 15:34	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 15:34	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 15:34	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 15:34	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 15:34	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 15:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 15:34		
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.26.2020 15:34		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 97 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-092

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58100	251	mg/kg	09.24.2020 20:06		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 16:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 16:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 16:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 16:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.25.2020 16:35	
o-Terphenyl	84-15-1	103	%	70-130	09.25.2020 16:35	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 97 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-092

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 15:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 15:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 15:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 15:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 15:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 15:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 15:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.26.2020 15:55		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 15:55		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 98 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-093

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54200	249	mg/kg	09.24.2020 20:11		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 16:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.25.2020 16:54	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 16:54	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 98 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-093

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 16:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 16:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 16:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.26.2020 16:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 16:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 16:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 16:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 16:15	
4-Bromofluorobenzene	460-00-4	109	%	70-130	09.26.2020 16:15	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 99 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-094

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 14:50

Basis: Wet Weight

Seq Number: 3138085

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11200	100	mg/kg	09.24.2020 20:16		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 17:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 17:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 17:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 17:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.25.2020 17:14	
o-Terphenyl	84-15-1	89	%	70-130	09.25.2020 17:14	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 99 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-094

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 16:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 16:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 16:36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.26.2020 16:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 16:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 16:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 16:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 16:36	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.26.2020 16:36	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 100 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-095

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6270	50.4	mg/kg	09.24.2020 17:10	X	10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 17:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 17:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 17:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 17:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.25.2020 17:34	
o-Terphenyl	84-15-1	104	%	70-130	09.25.2020 17:34	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 100 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-095

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 16:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 16:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 16:57	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.26.2020 16:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 16:57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 16:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 16:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 16:57		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.26.2020 16:57		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 101 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-096

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9940	99.6	mg/kg	09.24.2020 17:25		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 17:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 17:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 17:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 17:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.25.2020 17:53	
o-Terphenyl	84-15-1	87	%	70-130	09.25.2020 17:53	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 101 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-096

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.26.2020 17:17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.26.2020 17:17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.26.2020 17:17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.26.2020 17:17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.26.2020 17:17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.26.2020 17:17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.26.2020 17:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.26.2020 17:17		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 17:17		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 102 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-097

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15100	250	mg/kg	09.24.2020 17:31		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 18:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	09.25.2020 18:13	
o-Terphenyl	84-15-1	82	%	70-130	09.25.2020 18:13	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 102 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-097

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 17:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 17:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 17:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 17:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 17:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 17:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 17:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.26.2020 17:38		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.26.2020 17:38		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 103 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-098

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9530	50.2	mg/kg	09.24.2020 17:36		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 18:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 18:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 18:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 18:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.25.2020 18:32	
o-Terphenyl	84-15-1	101	%	70-130	09.25.2020 18:32	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 103 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-098

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 19:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 19:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 19:01	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.26.2020 19:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 19:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 19:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 19:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 19:01		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.26.2020 19:01		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 104 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-099

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14700	99.2	mg/kg	09.24.2020 17:41		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 18:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.25.2020 18:52	
o-Terphenyl	84-15-1	88	%	70-130	09.25.2020 18:52	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 104 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-099

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.26.2020 19:22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.26.2020 19:22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.26.2020 19:22	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.26.2020 19:22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.26.2020 19:22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.26.2020 19:22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.26.2020 19:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.26.2020 19:22		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 19:22		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 105 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-100

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3860	25.2	mg/kg	09.24.2020 17:57		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.25.2020 10:00

Basis: Wet Weight

Seq Number: 3138216

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.25.2020 19:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.25.2020 19:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.25.2020 19:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.25.2020 19:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.25.2020 19:11	
o-Terphenyl	84-15-1	94	%	70-130	09.25.2020 19:11	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 105 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-100

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 19:42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 19:42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 19:42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 19:42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 19:42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 19:42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 19:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.26.2020 19:42		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 19:42		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 106 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-101

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4300	24.9	mg/kg	09.24.2020 18:02		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 15:00

Basis: Wet Weight

Seq Number: 3138140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 00:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 00:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 00:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 00:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.25.2020 00:22	
o-Terphenyl	84-15-1	91	%	70-130	09.25.2020 00:22	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 106 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-101

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.26.2020 20:03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.26.2020 20:03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.26.2020 20:03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.26.2020 20:03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.26.2020 20:03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.26.2020 20:03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.26.2020 20:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.26.2020 20:03		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 20:03		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 107 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-102

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	441	4.99	mg/kg	09.24.2020 18:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 15:00

Basis: Wet Weight

Seq Number: 3138140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.25.2020 01:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.25.2020 01:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.25.2020 01:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.25.2020 01:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.25.2020 01:28	
o-Terphenyl	84-15-1	90	%	70-130	09.25.2020 01:28	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 107 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-102

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 14:33	UX	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 14:33	UX	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 14:33	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 14:33	UX	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 14:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 14:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 14:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.26.2020 14:33		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.2020 14:33		



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 108 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-103

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	613	5.00	mg/kg	09.24.2020 18:13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 15:00

Basis: Wet Weight

Seq Number: 3138140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 01:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 01:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 01:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 01:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.25.2020 01:50	
o-Terphenyl	84-15-1	92	%	70-130	09.25.2020 01:50	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 108 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-103

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 20:23	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 20:23	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 20:23	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.26.2020 20:23	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 20:23	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 20:23	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.26.2020 20:23	
4-Bromofluorobenzene	460-00-4	109	%	70-130	09.26.2020 20:23	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 109 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-104

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.24.2020 15:15

Basis: Wet Weight

Seq Number: 3138086

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10300	101	mg/kg	09.24.2020 18:18		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.24.2020 15:00

Basis: Wet Weight

Seq Number: 3138140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.25.2020 02:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.25.2020 02:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.25.2020 02:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.25.2020 02:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.25.2020 02:12	
o-Terphenyl	84-15-1	88	%	70-130	09.25.2020 02:12	



Certificate of Analytical Results 673277

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL 109 @6"**

Matrix: Soil

Date Received: 09.23.2020 11:13

Lab Sample Id: 673277-104

Date Collected: 09.21.2020 00:00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.26.2020 11:15

Basis: Wet Weight

Seq Number: 3138195

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.26.2020 20:44	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.26.2020 20:44	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.26.2020 20:44	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.26.2020 20:44	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.26.2020 20:44	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.26.2020 20:44	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.26.2020 20:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.26.2020 20:44		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.26.2020 20:44		

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

Nolan Ryan SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3138078

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7711982-1-BLK

LCS Sample Id: 7711982-1-BKS

LCSD Sample Id: 7711982-1-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	246	98	243	97	90-110	1	20	mg/kg	09.24.2020 08:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3138024

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7711984-1-BLK

LCS Sample Id: 7711984-1-BKS

LCSD Sample Id: 7711984-1-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	241	96	240	96	90-110	0	20	mg/kg	09.24.2020 08:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3138079

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7711986-1-BLK

LCS Sample Id: 7711986-1-BKS

LCSD Sample Id: 7711986-1-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	240	96	240	96	90-110	0	20	mg/kg	09.24.2020 11:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3138081

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7711987-1-BLK

LCS Sample Id: 7711987-1-BKS

LCSD Sample Id: 7711987-1-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	244	98	244	98	90-110	0	20	mg/kg	09.24.2020 11:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3138082

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7711988-1-BLK

LCS Sample Id: 7711988-1-BKS

LCSD Sample Id: 7711988-1-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	243	97	90-110	1	20	mg/kg	09.24.2020 14:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3138085

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7712030-1-BLK

LCS Sample Id: 7712030-1-BKS

LCSD Sample Id: 7712030-1-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	249	100	243	97	90-110	2	20	mg/kg	09.24.2020 17:44	

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



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Analytical Method: Chloride by EPA 300

Seq Number: 3138086

Matrix: Solid

Prep Method: E300P

Date Prep: 09.24.2020

MB Sample Id: 7712031-1-BLK

LCS Sample Id: 7712031-1-BKS

LCSD Sample Id: 7712031-1-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	249	100	259	104	90-110	4	20	mg/kg	09.24.2020 16:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3138078

Matrix: Soil

Prep Method: E300P

Date Prep: 09.24.2020

Parent Sample Id: 673276-002

MS Sample Id: 673276-002 S

MSD Sample Id: 673276-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.5	249	270	104	268	103	90-110	1	20	mg/kg	09.24.2020 09:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3138078

Matrix: Soil

Prep Method: E300P

Date Prep: 09.24.2020

Parent Sample Id: 673276-012

MS Sample Id: 673276-012 S

MSD Sample Id: 673276-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	163	249	416	102	418	102	90-110	0	20	mg/kg	09.24.2020 10:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3138024

Matrix: Soil

Prep Method: E300P

Date Prep: 09.24.2020

Parent Sample Id: 673277-006

MS Sample Id: 673277-006 S

MSD Sample Id: 673277-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	42.8	253	311	106	299	101	90-110	4	20	mg/kg	09.24.2020 09:09	

Analytical Method: Chloride by EPA 300

Seq Number: 3138024

Matrix: Soil

Prep Method: E300P

Date Prep: 09.24.2020

Parent Sample Id: 673412-002

MS Sample Id: 673412-002 S

MSD Sample Id: 673412-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.2	250	263	99	263	99	90-110	0	20	mg/kg	09.24.2020 10:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3138079

Matrix: Soil

Prep Method: E300P

Date Prep: 09.24.2020

Parent Sample Id: 673277-016

MS Sample Id: 673277-016 S

MSD Sample Id: 673277-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6150	2510	9100	118	8950	112	90-110	2	20	mg/kg	09.24.2020 12:14	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



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Analytical Method: Chloride by EPA 300

Seq Number: 3138079

Parent Sample Id: 673277-023

Matrix: Soil

MS Sample Id: 673277-023 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4160	1250	5500	107	5470	105	90-110	1	20	mg/kg	09.24.2020 13:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3138081

Parent Sample Id: 673277-028

Matrix: Soil

MS Sample Id: 673277-028 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	848	249	1060	85	1050	81	90-110	1	20	mg/kg	09.24.2020 12:09	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138081

Parent Sample Id: 673277-063

Matrix: Soil

MS Sample Id: 673277-063 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-063 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8680	2510	11100	96	11300	104	90-110	2	20	mg/kg	09.24.2020 13:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3138082

Parent Sample Id: 673277-060

Matrix: Soil

MS Sample Id: 673277-060 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-060 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8740	2480	11100	95	10900	87	90-110	2	20	mg/kg	09.25.2020 08:29	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138082

Parent Sample Id: 673277-064

Matrix: Soil

MS Sample Id: 673277-064 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-064 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9410	2510	11800	95	11900	99	90-110	1	20	mg/kg	09.24.2020 15:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3138085

Parent Sample Id: 673277-067

Matrix: Soil

MS Sample Id: 673277-067 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-067 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4010	1250	5350	107	5300	103	90-110	1	20	mg/kg	09.24.2020 18:00	

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



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Analytical Method: Chloride by EPA 300

Seq Number: 3138085

Parent Sample Id: 673277-069

Matrix: Soil

MS Sample Id: 673277-069 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-069 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3050	1250	4350	104	4310	101	90-110	1	20	mg/kg	09.24.2020 19:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3138086

Parent Sample Id: 673277-095

Matrix: Soil

MS Sample Id: 673277-095 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673277-095 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6270	2520	9350	122	9360	123	90-110	0	20	mg/kg	09.24.2020 17:15	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138086

Parent Sample Id: 673278-001

Matrix: Soil

MS Sample Id: 673278-001 S

Prep Method: E300P

Date Prep: 09.24.2020

MSD Sample Id: 673278-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5060	2510	7790	109	7880	112	90-110	1	20	mg/kg	09.24.2020 18:29	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138139

MB Sample Id: 7712080-1-BLK

Matrix: Solid

LCS Sample Id: 7712080-1-BKS

Prep Method: SW8015P

Date Prep: 09.24.2020

LCSD Sample Id: 7712080-1-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	1050	105	1000	100	70-130	5	20	mg/kg	09.24.2020 13:22	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	1010	101	70-130	1	20	mg/kg	09.24.2020 13:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		91		93		70-130	%	09.24.2020 13:22
o-Terphenyl	76		80		93		70-130	%	09.24.2020 13:22

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138141

MB Sample Id: 7712092-1-BLK

Matrix: Solid

LCS Sample Id: 7712092-1-BKS

Prep Method: SW8015P

Date Prep: 09.24.2020

LCSD Sample Id: 7712092-1-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	932	93	911	91	70-130	2	20	mg/kg	09.24.2020 13:22	
Diesel Range Organics (DRO)	<50.0	1000	961	96	949	95	70-130	1	20	mg/kg	09.24.2020 13:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		92		95		70-130	%	09.24.2020 13:22
o-Terphenyl	85		85		88		70-130	%	09.24.2020 13:22

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



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Analytical Method: TPH By SW8015 Mod

Seq Number: 3138140

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.24.2020

MB Sample Id: 7712093-1-BLK

LCS Sample Id: 7712093-1-BKS

LCSD Sample Id: 7712093-1-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	910	91	1030	103	70-130	12	20	mg/kg	09.24.2020 23:38	
Diesel Range Organics (DRO)	<50.0	1000	983	98	984	98	70-130	0	20	mg/kg	09.24.2020 23:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		90		87		70-130	%	09.24.2020 23:38
o-Terphenyl	95		79		77		70-130	%	09.24.2020 23:38

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138216

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.25.2020

MB Sample Id: 7712147-1-BLK

LCS Sample Id: 7712147-1-BKS

LCSD Sample Id: 7712147-1-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	935	94	910	91	70-130	3	20	mg/kg	09.25.2020 11:23	
Diesel Range Organics (DRO)	<50.0	1000	990	99	958	96	70-130	3	20	mg/kg	09.25.2020 11:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	75		87		90		70-130	%	09.25.2020 11:23
o-Terphenyl	85		92		92		70-130	%	09.25.2020 11:23

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138219

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.25.2020

MB Sample Id: 7712152-1-BLK

LCS Sample Id: 7712152-1-BKS

LCSD Sample Id: 7712152-1-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	990	99	969	97	70-130	2	20	mg/kg	09.25.2020 15:40	
Diesel Range Organics (DRO)	<50.0	1000	917	92	978	98	70-130	6	20	mg/kg	09.25.2020 15:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		88		94		70-130	%	09.25.2020 15:40
o-Terphenyl	100		79		87		70-130	%	09.25.2020 15:40

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



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Analytical Method: TPH By SW8015 Mod

Seq Number: 3138222

MB Sample Id: 7712154-1-BLK

Matrix: Solid

LCS Sample Id: 7712154-1-BKS

Prep Method: SW8015P

Date Prep: 09.25.2020

LCSD Sample Id: 7712154-1-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	999	100	994	99	70-130	1	20	mg/kg	09.25.2020 15:40	
Diesel Range Organics (DRO)	<50.0	1000	998	100	978	98	70-130	2	20	mg/kg	09.25.2020 15:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		95		95		70-130	%	09.25.2020 15:40
o-Terphenyl	91		90		86		70-130	%	09.25.2020 15:40

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138139

Matrix: Solid

MB Sample Id: 7712080-1-BLK

Prep Method: SW8015P

Date Prep: 09.24.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.24.2020 13:00	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138141

Matrix: Solid

MB Sample Id: 7712092-1-BLK

Prep Method: SW8015P

Date Prep: 09.24.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.24.2020 13:00	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138140

Matrix: Solid

MB Sample Id: 7712093-1-BLK

Prep Method: SW8015P

Date Prep: 09.24.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.24.2020 23:17	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138216

Matrix: Solid

MB Sample Id: 7712147-1-BLK

Prep Method: SW8015P

Date Prep: 09.25.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.25.2020 11:04	

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



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Analytical Method: TPH By SW8015 Mod

Seq Number: 3138219

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.25.2020

MB Sample Id: 7712152-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.25.2020 12:08	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138222

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.25.2020

MB Sample Id: 7712154-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.25.2020 12:08	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138139

Matrix: Soil

Prep Method: SW8015P

Date Prep: 09.24.2020

Parent Sample Id: 673277-001

MS Sample Id: 673277-001 S

MSD Sample Id: 673277-001 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	889	89	70-130	7	20	mg/kg	09.24.2020 14:29	
Diesel Range Organics (DRO)	<49.9	997	941	94	947	95	70-130	1	20	mg/kg	09.24.2020 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		92		70-130	%	09.24.2020 14:29
o-Terphenyl	90		81		70-130	%	09.24.2020 14:29

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138141

Matrix: Soil

Prep Method: SW8015P

Date Prep: 09.24.2020

Parent Sample Id: 673277-021

MS Sample Id: 673277-021 S

MSD Sample Id: 673277-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	979	98	881	88	70-130	11	20	mg/kg	09.24.2020 14:29	
Diesel Range Organics (DRO)	98.4	998	963	87	892	80	70-130	8	20	mg/kg	09.24.2020 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		101		70-130	%	09.24.2020 14:29
o-Terphenyl	96		91		70-130	%	09.24.2020 14:29

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



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Analytical Method: TPH By SW8015 Mod

Seq Number: 3138140

Parent Sample Id: 673277-101

Matrix: Soil

MS Sample Id: 673277-101 S

Prep Method: SW8015P

Date Prep: 09.24.2020

MSD Sample Id: 673277-101 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	958	96	945	95	70-130	1	20	mg/kg	09.25.2020 00:44	
Diesel Range Organics (DRO)	<49.9	998	978	98	1000	100	70-130	2	20	mg/kg	09.25.2020 00:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		97		70-130	%	09.25.2020 00:44
o-Terphenyl	82		94		70-130	%	09.25.2020 00:44

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138216

Parent Sample Id: 673277-081

Matrix: Soil

MS Sample Id: 673277-081 S

Prep Method: SW8015P

Date Prep: 09.25.2020

MSD Sample Id: 673277-081 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	944	95	857	86	70-130	10	20	mg/kg	09.25.2020 12:22	
Diesel Range Organics (DRO)	<49.9	998	980	98	885	89	70-130	10	20	mg/kg	09.25.2020 12:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		87		70-130	%	09.25.2020 12:22
o-Terphenyl	97		85		70-130	%	09.25.2020 12:22

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138219

Parent Sample Id: 673277-041

Matrix: Soil

MS Sample Id: 673277-041 S

Prep Method: SW8015P

Date Prep: 09.25.2020

MSD Sample Id: 673277-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	899	90	1020	102	70-130	13	20	mg/kg	09.25.2020 16:51	
Diesel Range Organics (DRO)	<49.9	998	879	88	1030	103	70-130	16	20	mg/kg	09.25.2020 16:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		99		70-130	%	09.25.2020 16:51
o-Terphenyl	80		94		70-130	%	09.25.2020 16:51

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

Nolan Ryan SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138222

Parent Sample Id: 673277-061

Matrix: Soil

MS Sample Id: 673277-061 S

Prep Method: SW8015P

Date Prep: 09.25.2020

MSD Sample Id: 673277-061 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	865	87	1010	101	70-130	15	20	mg/kg	09.25.2020 16:51	
Diesel Range Organics (DRO)	<49.9	997	893	90	1030	103	70-130	14	20	mg/kg	09.25.2020 16:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		105		70-130	%	09.25.2020 16:51
o-Terphenyl	86		99		70-130	%	09.25.2020 16:51

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137996

MB Sample Id: 7711991-1-BLK

Matrix: Solid

LCS Sample Id: 7711991-1-BKS

Prep Method: SW5035A

Date Prep: 09.23.2020

LCSD Sample Id: 7711991-1-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	0.0905	91	0.0923	92	70-130	2	35	mg/kg	09.23.2020 21:33	
Toluene	<0.00200	0.100	0.0873	87	0.0889	89	70-130	2	35	mg/kg	09.23.2020 21:33	
Ethylbenzene	<0.00200	0.100	0.0870	87	0.0874	87	70-130	0	35	mg/kg	09.23.2020 21:33	
m,p-Xylenes	<0.00400	0.200	0.170	85	0.171	86	70-130	1	35	mg/kg	09.23.2020 21:33	
o-Xylene	<0.00200	0.100	0.0863	86	0.0870	87	70-130	1	35	mg/kg	09.23.2020 21:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		98		98		70-130	%	09.23.2020 21:33
4-Bromofluorobenzene	101		94		97		70-130	%	09.23.2020 21:33

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138007

MB Sample Id: 7711997-1-BLK

Matrix: Solid

LCS Sample Id: 7711997-1-BKS

Prep Method: SW5035A

Date Prep: 09.23.2020

LCSD Sample Id: 7711997-1-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	0.0983	98	0.0961	96	70-130	2	35	mg/kg	09.23.2020 21:24	
Toluene	<0.00200	0.100	0.105	105	0.105	105	70-130	0	35	mg/kg	09.23.2020 21:24	
Ethylbenzene	<0.00200	0.100	0.112	112	0.113	113	70-130	1	35	mg/kg	09.23.2020 21:24	
m,p-Xylenes	<0.00400	0.200	0.226	113	0.227	114	70-130	0	35	mg/kg	09.23.2020 21:24	
o-Xylene	<0.00200	0.100	0.114	114	0.114	114	70-130	0	35	mg/kg	09.23.2020 21:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		101		99		70-130	%	09.23.2020 21:24
4-Bromofluorobenzene	69	**	126		125		70-130	%	09.23.2020 21:24

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138037

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.23.2020

MB Sample Id: 7712003-1-BLK

LCS Sample Id: 7712003-1-BKS

LCSD Sample Id: 7712003-1-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	0.116	116	0.109	109	70-130	6	35	mg/kg	09.24.2020 05:02	
Toluene	<0.00200	0.100	0.115	115	0.110	110	70-130	4	35	mg/kg	09.24.2020 05:02	
Ethylbenzene	<0.00200	0.100	0.111	111	0.106	106	70-130	5	35	mg/kg	09.24.2020 05:02	
m,p-Xylenes	<0.00400	0.200	0.232	116	0.223	112	70-130	4	35	mg/kg	09.24.2020 05:02	
o-Xylene	<0.00200	0.100	0.117	117	0.114	114	70-130	3	35	mg/kg	09.24.2020 05:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	80		97		93		70-130	%	09.24.2020 05:02
4-Bromofluorobenzene	119		128		127		70-130	%	09.24.2020 05:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138039

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.24.2020

MB Sample Id: 7712004-1-BLK

LCS Sample Id: 7712004-1-BKS

LCSD Sample Id: 7712004-1-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	0.0884	88	0.0940	94	70-130	6	35	mg/kg	09.24.2020 09:02	
Toluene	<0.00200	0.100	0.0844	84	0.0917	92	70-130	8	35	mg/kg	09.24.2020 09:02	
Ethylbenzene	<0.00200	0.100	0.0852	85	0.0937	94	70-130	10	35	mg/kg	09.24.2020 09:02	
m,p-Xylenes	<0.00400	0.200	0.167	84	0.185	93	70-130	10	35	mg/kg	09.24.2020 09:02	
o-Xylene	<0.00200	0.100	0.0846	85	0.0925	93	70-130	9	35	mg/kg	09.24.2020 09:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		98		70-130	%	09.24.2020 09:02
4-Bromofluorobenzene	99		99		98		70-130	%	09.24.2020 09:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138188

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.24.2020

MB Sample Id: 7712079-1-BLK

LCS Sample Id: 7712079-1-BKS

LCSD Sample Id: 7712079-1-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	0.0954	95	0.0886	89	70-130	7	35	mg/kg	09.25.2020 08:15	
Toluene	<0.00200	0.100	0.0940	94	0.0865	87	70-130	8	35	mg/kg	09.25.2020 08:15	
Ethylbenzene	<0.00200	0.100	0.0948	95	0.0874	87	70-130	8	35	mg/kg	09.25.2020 08:15	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.173	87	70-130	8	35	mg/kg	09.25.2020 08:15	
o-Xylene	<0.00200	0.100	0.0945	95	0.0879	88	70-130	7	35	mg/kg	09.25.2020 08:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		97		70-130	%	09.25.2020 08:15
4-Bromofluorobenzene	102		97		98		70-130	%	09.25.2020 08:15

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138093

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.24.2020

MB Sample Id: 7712066-1-BLK

LCS Sample Id: 7712066-1-BKS

LCSD Sample Id: 7712066-1-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	0.0912	91	0.100	100	70-130	9	35	mg/kg	09.24.2020 21:17	
Toluene	<0.00200	0.100	0.0885	89	0.0967	97	70-130	9	35	mg/kg	09.24.2020 21:17	
Ethylbenzene	<0.00200	0.100	0.0898	90	0.0984	98	70-130	9	35	mg/kg	09.24.2020 21:17	
m,p-Xylenes	<0.00400	0.200	0.176	88	0.193	97	70-130	9	35	mg/kg	09.24.2020 21:17	
o-Xylene	<0.00200	0.100	0.0889	89	0.0973	97	70-130	9	35	mg/kg	09.24.2020 21:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		96		99		70-130	%	09.24.2020 21:17
4-Bromofluorobenzene	103		98		102		70-130	%	09.24.2020 21:17

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138189

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.25.2020

MB Sample Id: 7712132-1-BLK

LCS Sample Id: 7712132-1-BKS

LCSD Sample Id: 7712132-1-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	0.0900	90	0.0922	92	70-130	2	35	mg/kg	09.25.2020 20:44	
Toluene	<0.00200	0.100	0.0988	99	0.0893	89	70-130	10	35	mg/kg	09.25.2020 20:44	
Ethylbenzene	<0.00200	0.100	0.0879	88	0.0897	90	70-130	2	35	mg/kg	09.25.2020 20:44	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.176	88	70-130	2	35	mg/kg	09.25.2020 20:44	
o-Xylene	<0.00200	0.100	0.0870	87	0.0897	90	70-130	3	35	mg/kg	09.25.2020 20:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		98		70-130	%	09.25.2020 20:44
4-Bromofluorobenzene	101		97		98		70-130	%	09.25.2020 20:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138195

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.26.2020

MB Sample Id: 7712144-1-BLK

LCS Sample Id: 7712144-1-BKS

LCSD Sample Id: 7712144-1-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	0.108	108	0.112	112	70-130	4	35	mg/kg	09.26.2020 12:11	
Toluene	<0.00200	0.100	0.0995	100	0.103	103	70-130	3	35	mg/kg	09.26.2020 12:11	
Ethylbenzene	<0.00200	0.100	0.106	106	0.110	110	70-130	4	35	mg/kg	09.26.2020 12:11	
m,p-Xylenes	<0.00400	0.200	0.218	109	0.227	114	70-130	4	35	mg/kg	09.26.2020 12:11	
o-Xylene	<0.00200	0.100	0.105	105	0.110	110	70-130	5	35	mg/kg	09.26.2020 12:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		99		70-130	%	09.26.2020 12:11
4-Bromofluorobenzene	95		100		101		70-130	%	09.26.2020 12:11

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137996

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.23.2020

Parent Sample Id: 673277-002

MS Sample Id: 673277-002 S

MSD Sample Id: 673277-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0791	79	0.0823	82	70-130	4	35	mg/kg	09.23.2020 22:14	
Toluene	<0.00200	0.0998	0.0764	77	0.0797	80	70-130	4	35	mg/kg	09.23.2020 22:14	
Ethylbenzene	<0.00200	0.0998	0.0748	75	0.0777	78	70-130	4	35	mg/kg	09.23.2020 22:14	
m,p-Xylenes	<0.00399	0.200	0.146	73	0.154	77	70-130	5	35	mg/kg	09.23.2020 22:14	
o-Xylene	<0.00200	0.0998	0.0733	73	0.0767	77	70-130	5	35	mg/kg	09.23.2020 22:14	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		70-130	%	09.23.2020 22:14
4-Bromofluorobenzene	98		97		70-130	%	09.23.2020 22:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138007

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.23.2020

Parent Sample Id: 673277-022

MS Sample Id: 673277-022 S

MSD Sample Id: 673277-022 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	0.0818	82	0.0861	86	70-130	5	35	mg/kg	09.23.2020 22:05	
Toluene	<0.00199	0.0994	0.0897	90	0.0840	84	70-130	7	35	mg/kg	09.23.2020 22:05	
Ethylbenzene	<0.00199	0.0994	0.0924	93	0.0784	79	70-130	16	35	mg/kg	09.23.2020 22:05	
m,p-Xylenes	<0.00398	0.199	0.182	91	0.145	73	70-130	23	35	mg/kg	09.23.2020 22:05	
o-Xylene	<0.00199	0.0994	0.0910	92	0.0708	71	70-130	25	35	mg/kg	09.23.2020 22:05	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		103		70-130	%	09.23.2020 22:05
4-Bromofluorobenzene	125		99		70-130	%	09.23.2020 22:05

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138037

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.23.2020

Parent Sample Id: 673276-001

MS Sample Id: 673276-001 S

MSD Sample Id: 673276-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0969	98	0.0821	83	70-130	17	35	mg/kg	09.24.2020 05:44	
Toluene	<0.00198	0.0992	0.0992	100	0.0822	83	70-130	19	35	mg/kg	09.24.2020 05:44	
Ethylbenzene	<0.00198	0.0992	0.0909	92	0.0768	77	70-130	17	35	mg/kg	09.24.2020 05:44	
m,p-Xylenes	<0.00397	0.198	0.194	98	0.162	81	70-130	18	35	mg/kg	09.24.2020 05:44	
o-Xylene	<0.00198	0.0992	0.0951	96	0.0830	84	70-130	14	35	mg/kg	09.24.2020 05:44	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		91		70-130	%	09.24.2020 05:44
4-Bromofluorobenzene	128		126		70-130	%	09.24.2020 05:44

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138039

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.24.2020

Parent Sample Id: 673267-001

MS Sample Id: 673267-001 S

MSD Sample Id: 673267-001 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	0.0801	81	0.0809	82	70-130	1	35	mg/kg	09.24.2020 09:43	
Toluene	0.00567	0.0994	0.0741	69	0.0743	69	70-130	0	35	mg/kg	09.24.2020 09:43	X
Ethylbenzene	0.0118	0.0994	0.0686	57	0.0675	56	70-130	2	35	mg/kg	09.24.2020 09:43	X
m,p-Xylenes	0.0226	0.199	0.129	53	0.126	52	70-130	2	35	mg/kg	09.24.2020 09:43	X
o-Xylene	0.0142	0.0994	0.0681	54	0.0659	52	70-130	3	35	mg/kg	09.24.2020 09:43	X

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		70-130	%	09.24.2020 09:43
4-Bromofluorobenzene	104		103		70-130	%	09.24.2020 09:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138188

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.24.2020

Parent Sample Id: 673277-062

MS Sample Id: 673277-062 S

MSD Sample Id: 673277-062 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0788	79	0.0816	82	70-130	3	35	mg/kg	09.25.2020 08:56	
Toluene	<0.00200	0.0998	0.0761	76	0.0784	79	70-130	3	35	mg/kg	09.25.2020 08:56	
Ethylbenzene	<0.00200	0.0998	0.0744	75	0.0779	78	70-130	5	35	mg/kg	09.25.2020 08:56	
m,p-Xylenes	<0.00399	0.200	0.145	73	0.153	77	70-130	5	35	mg/kg	09.25.2020 08:56	
o-Xylene	<0.00200	0.0998	0.0736	74	0.0771	77	70-130	5	35	mg/kg	09.25.2020 08:56	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		98		70-130	%	09.25.2020 08:56
4-Bromofluorobenzene	99		101		70-130	%	09.25.2020 08:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138093

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.24.2020

Parent Sample Id: 673277-042

MS Sample Id: 673277-042 S

MSD Sample Id: 673277-042 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0831	83	0.0776	78	70-130	7	35	mg/kg	09.24.2020 21:58	
Toluene	<0.00200	0.0998	0.0789	79	0.0744	75	70-130	6	35	mg/kg	09.24.2020 21:58	
Ethylbenzene	<0.00200	0.0998	0.0758	76	0.0727	73	70-130	4	35	mg/kg	09.24.2020 21:58	
m,p-Xylenes	<0.00399	0.200	0.148	74	0.141	71	70-130	5	35	mg/kg	09.24.2020 21:58	
o-Xylene	<0.00200	0.0998	0.0746	75	0.0713	72	70-130	5	35	mg/kg	09.24.2020 21:58	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		97		70-130	%	09.24.2020 21:58
4-Bromofluorobenzene	100		99		70-130	%	09.24.2020 21:58

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

Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138189

Parent Sample Id: 673277-082

Matrix: Soil

MS Sample Id: 673277-082 S

Prep Method: SW5035A

Date Prep: 09.25.2020

MSD Sample Id: 673277-082 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0867	87	0.0834	84	70-130	4	35	mg/kg	09.25.2020 21:25	
Toluene	<0.00200	0.100	0.0880	88	0.0890	90	70-130	1	35	mg/kg	09.25.2020 21:25	
Ethylbenzene	<0.00200	0.100	0.0808	81	0.0786	79	70-130	3	35	mg/kg	09.25.2020 21:25	
m,p-Xylenes	<0.00400	0.200	0.158	79	0.153	77	70-130	3	35	mg/kg	09.25.2020 21:25	
o-Xylene	<0.00200	0.100	0.0801	80	0.0772	78	70-130	4	35	mg/kg	09.25.2020 21:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	09.25.2020 21:25
4-Bromofluorobenzene	102		102		70-130	%	09.25.2020 21:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138195

Parent Sample Id: 673277-102

Matrix: Soil

MS Sample Id: 673277-102 S

Prep Method: SW5035A

Date Prep: 09.26.2020

MSD Sample Id: 673277-102 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.135	135	0.127	127	70-130	6	35	mg/kg	09.26.2020 12:52	X
Toluene	<0.00200	0.0998	0.129	129	0.132	132	70-130	2	35	mg/kg	09.26.2020 12:52	X
Ethylbenzene	<0.00200	0.0998	0.129	129	0.122	122	70-130	6	35	mg/kg	09.26.2020 12:52	
m,p-Xylenes	<0.00399	0.200	0.263	132	0.249	125	70-130	5	35	mg/kg	09.26.2020 12:52	X
o-Xylene	<0.00200	0.0998	0.126	126	0.120	120	70-130	5	35	mg/kg	09.26.2020 12:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		70-130	%	09.26.2020 12:52
4-Bromofluorobenzene	100		104		70-130	%	09.26.2020 12:52

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**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:

673277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elech 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@elecheny.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	☒
Project Number:	13084	Routine:	☒
Project Location:	Rural Lee County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

ANALYSIS REQUEST

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

Preservative Codes

HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: NA
 MeOH: ME
 Zn Acetate+ NaOH: Zn

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	ANALYSIS REQUEST	Preservative Codes
NW1	Soil	9.21.20			1	X	X	X	X		
NW2	Soil	9.21.20			1	X	X	X	X		
EW5	Soil	9.21.20			1	X	X	X	X		
EW6	Soil	9.21.20			1	X	X	X	X		
EW7	Soil	9.21.20			1	X	X	X	X		
SW4	Soil	9.21.20			1	X	X	X	X		
SW5	Soil	9.21.20			1	X	X	X	X		
SW6	Soil	9.21.20			1	X	X	X	X		
NW5	Soil	9.21.20			1	X	X	X	X		
NW6	Soil	9.21.20			1	X	X	X	X		
Total 200.7 / 6010											
200.8 / 6020:											

Circle Method(s) and Metal(s) to be analyzed

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

TCLP / SPLP 6010: 8RCRA

Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

9.23.20 3:30

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

9/23

113

Revised Date: 11/11/2019

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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) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 669-6707
Atlanta, GA (770) 449-8800

Work Order No:

673722

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lowington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client
Project Name:	Nolan Ryan Sub	Turn Around	
Project Number:	12-214		

www.xenco.com Page 2 of 11

Work Order Comments

Program: UST/PST ☐ PRR ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level I ☐ Level II ☐ : PST/UST ☐ TRRT ☐ Level II ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

Project Location		Routine: ☒	
Sampler's Name:		Rush: ☐	
PO #:		Due Date:	
SAMPLE RECEIPT			
Temperature (°C):	Temp Blank:	Yes	No
Received In tact:	Thermometer ID		
Cooler Custody Seals:	Yes	No	
Sample Custody Seals:	Yes	No	Correction Factor:
	Yes	No	
	Yes	No	Total Containers:
of Containers/Preservative			
ANALYSIS REQUEST			
Preservative Codes			
HNO ₃ : HN			
H ₂ SO ₄ : H2			
HCL: HL			
None: NO			
NaOH: Na			
MeOH: Me			
Zn Acetate+ NaOH: Zn			

[illegible]

1631 / 245.1 / 7470 / 7471 : Ho

Received by: (Signature) _____

Relinquished by: (Signature) _____

When sample submitted to Zenko, 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
1						
2						
3						
4						
5						
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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) 986-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 669-6700
Atlanta, GA (770) 449-8800

Work Order No:

673277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Goodright Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Livingston, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechny.com + Client
Project Name:	Delan Ryan SWD	Turn Around	
Project Number:	17004		

www.xenco.com Page 3 of 11

Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ superfund ☐ State of Project: Reporting Level: ☐ Level I ☐ PST/UST ☐ TRR ☐ Level II ☐ Deliverables: EDD ☐ ADAPT ☐ Other:			
---	--	--	--

Project Number:	10074	Routine:	☒
Project Location	Rural Lee County, NM	Rush:	☐
Sample's Name:	Miguel Ruminant	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	Temp Blank:	Yes	No
Received Intact:	Yes	No	Thermometer ID
Cooler Custody Seals:	Yes	No	N/A
Sample Custody Seals:	Yes	No	N/A
Total Containers:			

ANALYSIS REQUEST							
Preservative Codes	HNO3: HN						
	H2SO4: H2						
	HCL: HL						
	None: NO						
	NaOH: Na						
	MeOH: Me						
	Zn Acetate+ NaOH: Zn						

[illegible]

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Relinquished By: (Signature)	Received: (Signature)	

	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1					
2	<i>[Signature]</i>				
3	<i>[Signature]</i>	9-22-20 3:20	<i>[Signature]</i>	<i>[Signature]</i>	
4					
5					
6					

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 302-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1266
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0717, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No:

613277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Good Night Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lowington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechny.com + Client
Project Name:	Nolan Ryan SWP	Turn Around	
Project Number:	12081		

www.xenico.com Page 4 of 11

Work Order Comments

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level ☐ Level ☐ : ☐ PST/☐ US ☐ TRR ☐ Level ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

[illegible]

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number Code	Chloride B	BTX #02	TPH Modif	TPH TX100					
FL 36 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 37 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 38 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 39 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 40 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 41 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 42 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 43 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 44 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
FL 45 @ 6"	S.O.I.	9.21.20		6"	1	X	X	X						
Total	200.7 / 60.10	200.8 / 60.20:												

TAT starts the day received by the lab. If received by 4:30pm

Sample Comments

Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its articles 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
1 <i>Wend Perry</i>					
2	<i>EC</i>	<i>09/22/20 3:20</i>	2	<i>EC</i>	
3			3		
4			4		
5			5		
			6		

1631 / 245.1 / 7470 / 7474 -Hg

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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) 565-3443, Lubbock, TX (806) 794-1266
Hobbs, NM (575) 392-7550, Carlsbad, NM (505) 988-3199, Phoenix, AZ (480) 355-0800
Tampa, FL (813) 620-2000, Tallahassee, FL (905) 756-0747, Delray Beach, FL (561) 689-6707
Atlanta, GA (770) 449-8800

Work Order No:

073277

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level I ☐ Level II ☐ PST/UST ☐ TRR ☐ Level III ☐

Deliverables: EDD ☐ ADAPT ☐ Other: ☐

of Containers/Preservative		ANALYSIS REQUEST
E300		
ied Ext		
5		

Preservative Codes				
				HN03: HN
				H2S04: H2
				HCL: HL
				NONE: NO
				NaOH: Na
				MeOH: Me
				Zn Acetate: NaOH: Zn

[illegible]

Total	200.7 / 6010	200.8 / 6020
-------	--------------	--------------

Call the Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8BCEBA

[illegible]

K Se An SiO₂ Al₂O₃ TiO₂ FeO

Signature of this document and relinquishment of samples constitutes a valid purchase order for the service. Xenco will be liable only for the following elements:

Element	Unit	Price
As	mg	\$100
Ba	mg	\$100
Be	mg	\$100
Ca	mg	\$100
Cr	mg	\$100
Co	mg	\$100
Cu	mg	\$100
Pb	mg	\$100
Mn	mg	\$100
Mo	mg	\$100
Ni	mg	\$100
Se	mg	\$100
Ag	mg	\$100
Ti	mg	\$100
U	mg	\$100

1631/2454/7470/12470

Requisitioned by: (Signature) _____

1000

Wendy

Received by: (Signature)

Date/Time 20-9-2020

Acquired by: (Signature)

Received by: (Signature)

Date/Time

XENCO**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) 505-3443, Lubbock, TX (806) 794-1286
 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:

673277

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Page 6 of 11

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project: ☐

Reporting Level: ☐ Level I ☐ PST/US ☐ TRR ☐ Level II ☐
 Deliverables: EDD ☐ ADAPT ☐ Other: ☐

ANALYSIS REQUEST**Preservative Codes**

HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: Na
 MeOH: Me
 Zn Acetate + NaOH: Zn

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lawton, NM, 82660	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	
Project Number:	1304	Routine:	☒
Project Location:	Rural Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):				Thermometer ID		
Received In tact:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
EL 5666"	Soil	9.21.20		1'		X	X	X	X
EL 5766"	Soil	9.21.20		1'		X	X	X	X
EL 5866"	Soil	9.21.20		1'		X	X	X	X
EL 5966"	Soil	9.21.20		1'		X	X	X	X
EL 6066"	Soil	9.21.20		1'		X	X	X	X
EL 6166"	Soil	9.21.20		1'		X	X	X	X
EL 6266"	Soil	9.21.20		1'		X	X	X	X
EL 6366"	Soil	9.21.20		1'		X	X	X	X
EL 6466"	Soil	9.21.20		1'		X	X	X	X
EL 6566"	Soil	9.21.20		1'		X	X	X	X

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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
 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

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 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1286
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (904) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-0800

Work Order No:

673277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elech 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@elecheny.com + Client
Project Name:	Nolan Ryan SW	Turn Around	
Project Number:	13084	Routine:	☒
Project Location:	Rural Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	Temp Blank:	Yes	No
Received Intact:	Wet Ice:	Yes	No
Cooler Custody Seals:	Thermometer ID		
Sample Custody Seals:	Yes	No	N/A
	Correction Factor:		
	Total Containers:		

ANALYSIS REQUEST

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

Project Number: 35884		Project Location: Rural Lea County, NM		Routine: ☒	
Sample's Name: Miguel Rami rez		Rush: ☐			
PO #:		Due Date:			
SAMPLE RECEIPT					
Temperature (°C):		Temp Blank:	Yes	No	Well Ice: Yes No
Received Intact:		Thermometer ID			
Cooler Custody Seals:		Yes	No	Correction Factor:	
Sample Custody Seals:		Yes	No	N/A	Total Containers:
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth
FL 66 06"		50.1	9.21.20		6"
FL 67 06"		50.1	9.21.20		6"
FL 68 06"		50.1	9.21.20		6"
FL 69 06"		50.1	9.21.20		6"
FL 70 06"		50.1	9.21.20		6"
FL 71 06"		50.1	9.21.20		6"
FL 72 06"		50.1	9.21.20		6"
FL 73 06"		50.1	9.21.20		6"
FL 74 06"		50.1	9.21.20		6"
FL 75 06"		50.1	9.21.20		6"
Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be R Cd Cr Cu Pb Zn	
Circle Method(s) and Metal(s) to be analyzed		TAT starts the day received by the lab, if received by 4:30pm			
Sample Comments		Preservative Codes			
		HNO3: HN			
		H2SO4: H2			
		HCL: HL			
		None: NO			
		NaOH: Na			
		MeOH: Me			
		Zn Acetate+ NaOH: Zn			

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K 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)

Date/Time

XENCO**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) 794-1236
 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:

673277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elech 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@elecheny.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	
Project Number:	13024	Routine:	☒
Project Location:	Rural La County, NM	Rush:	☐
Sampler's Name:	Miguel Rendon	Due Date:	
PO #:			

ANALYSIS REQUEST

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

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Page 8 of 11

SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes	No
Temperature (°C):				Thermometer ID		
Received In tact:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
-----------------------	--------	--------------	--------------	-------

Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
--	---------------	-----------	------------------	------------

Sample Comments

TAT starts the day received by the lab, if received by 4:30pm

Preservative Codes

HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: Na
 MeOH: Me
 Zn Acetate+ NaOH: Zn

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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

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1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time



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) 794-1295
 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: 1673277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elect Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@electenvy.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	☒
Project Number:	13084	Routine:	☒
Project Location:	Royal Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

ANALYSIS REQUEST

www.xenco.com Page 4 of 11	
Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level: ☐ Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III	
Deliverables: EDD ☐ ADAPT ☐ Other:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):				Thermometer ID		
Received In tact:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	ANALYSIS REQUEST	Preservative Codes
FL 86 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		HNO3: HN
FL 87 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		H2SO4: H2
FL 88 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		HCL: HL
FL 89 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		None: NO
FL 90 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		NaOH: Na
FL 91 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		MeOH: Me
FL 92 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		Zn Acetate+ NaOH: Zn
FL 93 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		
FL 94 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		
FL 95 @ 6"	Soil	9-21-20		6"	1	X	X	X	X		

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

BRORA 13PPM Texas 11

TCLP / SPLP 6010: BRORA

Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

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

XENCO**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) 820-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

1073277

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elect Environmental & Safety	Company Name:	Greenlight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@electenvy.com + Client
Project Name:	Avellan Ryan SWD	Turn Around	
Project Number:	13084	Routine:	☒
Project Location:	Rural Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

ANALYSIS REQUEST

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

SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes	No
Temperature (°C):				Thermometer ID		
Received Inact:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
-----------------------	--------	--------------	--------------	-------

FL 96 @ 6"	Soil	9.21.20		6"
FL 97 @ 6"	Soil	9.21.20		6"
FL 98 @ 6"	Soil	9.21.20		6"
FL 99 @ 6"	Soil	9.21.20		6"
FL 100 @ 6"	Soil	9.21.20		6"
FL 101 @ 6"	Soil	9.21.20		6"
FL 102 @ 6"	Soil	9.21.20		6"
FL 103 @ 6"	Soil	9.21.20		6"
FL 104 @ 6"	Soil	9.21.20		6"
FL 105 @ 6"	Soil	9.21.20		6"

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

 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
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. As 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

XENCO**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: 673277www.xenco.com Page 11 of 11**Work Order Comments**

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project:

Reporting Level: ☐ Level 1 ☐ PST/UST ☐ TRR ☐ Level 2
 Deliverables: EDD ☐ ADAPT ☐ Other:

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elect Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Livingston, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@electenvy.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	☒
Project Number:	13084	Route:	☒
Project Location:	Rural Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	Temp Blank:	Yes	No
Received Inlet:	Yes	No	
Cooler Custody Seals:	Yes	No	N/A
Sample Custody Seals:	Yes	No	N/A
Thermometer ID		Correction Factor:	
Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
FL 106 @ 6"	Soil	9-21-20		6"
FL 107 @ 6"	Soil	9-21-20		6"
FL 108 @ 6"	Soil	9-21-20		6"
FL 109 @ 6"	Soil	9-21-20		6"

Number of Containers/Preservative Code

Chloride E300

BTEX 8021

TPH Modified Ext

TPH TX1005

ANALYSIS REQUEST**Preservative Codes**

HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: Na
 MeOH: Me
 Zn Acetate: NaOH: Zn

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

BRCPA 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

TCLP / SPLP 6010: BRCPA 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

ORIGIN ID: H0BA (070) 052-7000
* MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 22SEP20
ACTWGT: 33.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 21x14x12 IN
BILL SENDER

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

MIDLAND TX 79711

(432) 704-5440
INV:
PO:

REF:

DEPT:



FedEx
Express



J191219862001UV

3 of 3
MPS# 9061 5134 9900
0263
Mstr# 9061 5134 9885

0201

41 MAFA

WED - 23 SEP HOLD
PRIORITY OVERNIGHT
HLD

MAFA
TX-US LBB



PAK 012510-494 RTT EXP 0121 00



Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 09.23.2020 11.13.00 AM

Work Order #: 673277

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	
#2 *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: 09.23.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.23.2020

Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674013-001	674013-002	674013-003	674013-004	674013-005	674013-006
	<i>Field Id:</i>	FL20 @ 10"	FL28 @ 10"	FL36 @ 10"	FL37 @ 10"	FL38 @ 10"	FL39 @ 10"
	<i>Depth:</i>	10- In	10- In	10- In	10- In	10- In	10- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		10.01.2020 17:00				
	<i>Analyzed:</i>		10.02.2020 09:40				
	<i>Units/RL:</i>		mg/kg RL				
Benzene			<0.00198 0.00198				
Toluene			<0.00198 0.00198				
Ethylbenzene			<0.00198 0.00198				
m,p-Xylenes			<0.00396 0.00396				
o-Xylene			<0.00198 0.00198				
Total Xylenes			<0.00198 0.00198				
Total BTEX			<0.00198 0.00198				
Chloride by EPA 300	<i>Extracted:</i>	10.01.2020 15:40	10.01.2020 15:40	10.01.2020 15:40	10.05.2020 14:45	10.01.2020 15:40	10.01.2020 15:40
	<i>Analyzed:</i>	10.02.2020 18:56	10.02.2020 13:05	10.02.2020 13:10	10.05.2020 16:23	10.02.2020 13:21	10.02.2020 13:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		364 4.99	28.6 4.95	612 5.05	1710 24.8	1840 25.0	625 5.03
TPH By SW8015 Mod	<i>Extracted:</i>		10.01.2020 11:15				
	<i>Analyzed:</i>		10.01.2020 21:23				
	<i>Units/RL:</i>		mg/kg RL				
Gasoline Range Hydrocarbons (GRO)			<49.8 49.8				
Diesel Range Organics (DRO)			<49.8 49.8				
Motor Oil Range Hydrocarbons (MRO)			<49.8 49.8				
Total TPH			<49.8 49.8				

BRL - Below Reporting Limit

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





Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	674013-007	674013-008	674013-009	674013-010	674013-011	674013-012
	Field Id:	FL42 @ 10"	FL45 @ 10"	FL47 @ 10"	FL48 @ 10"	FL49 @ 10"	FL50 @ 10"
	Depth:	10- In	10- In	10- In	10- In	10- In	10- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00
Chloride by EPA 300	Extracted:	10.01.2020 15:40	10.01.2020 15:40	10.01.2020 15:40	10.01.2020 15:40	10.01.2020 15:40	10.01.2020 15:40
	Analyzed:	10.02.2020 13:42	10.02.2020 13:58	10.02.2020 14:03	10.02.2020 14:08	10.02.2020 14:14	10.02.2020 14:19
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1430 24.8	25.7 5.05	2240 25.3	1830 24.8	564 4.98	611 5.00

BRL - Below Reporting Limit

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

Jessica Kramer

Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674013-013		674013-014		674013-015		674013-016		674013-017		674013-018	
	<i>Field Id:</i>	FL52 @ 10"		FL54 @ 10"		FL55 @ 10"		FL56 @ 10"		FL58 @ 10"		FL60 @ 10"	
	<i>Depth:</i>	10- In		10- In		10- In		10- In		10- In		10- In	
	<i>Matrix:</i>	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	<i>Sampled:</i>	09.30.2020 00:00		09.30.2020 00:00		09.30.2020 00:00		09.30.2020 00:00		09.30.2020 00:00		09.30.2020 00:00	
Chloride by EPA 300	<i>Extracted:</i>	10.01.2020 15:40		10.01.2020 15:40		10.01.2020 16:00		10.01.2020 16:00		10.01.2020 16:00		10.01.2020 16:00	
	<i>Analyzed:</i>	10.02.2020 14:24		10.02.2020 14:29		10.01.2020 20:16		10.01.2020 20:32		10.01.2020 20:37		10.01.2020 20:43	
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		698	5.02	4130	25.0	1930 X	25.0	853	4.95	633	4.99	719	5.03

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674013-019	674013-020	674013-021	674013-022	674013-023	674013-024
	<i>Field Id:</i>	FL61 @ 10"	FL62 @ 10"	FL63 @ 10"	FL64 @ 10"	FL71 @ 10"	FL75 @ 10"
	<i>Depth:</i>	10- In	10- In	10- In	10- In	10- In	10- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00
Chloride by EPA 300	<i>Extracted:</i>	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00
	<i>Analyzed:</i>	10.01.2020 20:48	10.01.2020 21:04	10.01.2020 21:09	10.01.2020 21:14	10.01.2020 21:20	10.01.2020 21:25
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1270 4.96	1410 25.2	2510 25.0	784 5.00	2160 25.1	2450 25.3

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	674013-025	674013-026	674013-027	674013-028	674013-029	674013-030
	Field Id:	FL76 @ 10"	FL77 @ 10"	FL78 @ 10"	FL79 @ 10"	FL80 @ 10"	FL81 @ 10"
	Depth:	10- In	10- In	10- In	10- In	10- In	10- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00
Chloride by EPA 300	Extracted:	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00
	Analyzed:	10.01.2020 21:30	10.01.2020 21:46	10.01.2020 21:51	10.01.2020 22:07	10.01.2020 22:12	10.01.2020 22:18
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1720 X 24.9	861 4.97	27.8 5.04	729 4.96	105 4.96	714 5.00

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	674013-031	674013-032	674013-033	674013-034	674013-035	674013-036
	Field Id:	FL82 @ 10"	FL84 @ 10"	FL85 @ 10"	FL88 @ 10"	FL90 @ 10"	FL91 @ 10"
	Depth:	10- In	10- In	10- In	10- In	10- In	10- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00
Chloride by EPA 300	Extracted:	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:00	10.01.2020 16:15	10.01.2020 16:15
	Analyzed:	10.01.2020 22:23	10.01.2020 22:28	10.01.2020 22:33	10.01.2020 22:39	10.02.2020 17:58	10.02.2020 18:03
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1420 5.00	1170 5.00	1160 5.05	1140 4.97	592 5.04	810 4.96

BRL - Below Reporting Limit

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





Certificate of Analysis Summary 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Thu 10.01.2020 11:00
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	674013-037	674013-038	674013-039	674013-040	674013-041	674013-042
	Field Id:	FL92 @ 10"	FL94 @ 10"	FL95 @ 10"	FL96 @ 10"	FL97 @ 10"	FL98 @ 10"
	Depth:	10- In	10- In	10- In	10- In	10- In	10- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00	09.30.2020 00:00
Chloride by EPA 300	Extracted:	10.01.2020 16:15	10.01.2020 16:15	10.01.2020 16:15	10.01.2020 16:15	10.01.2020 16:15	10.01.2020 16:15
	Analyzed:	10.02.2020 18:19	10.02.2020 18:24	10.02.2020 18:29	10.02.2020 18:34	10.02.2020 18:40	10.02.2020 18:45
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		556 4.99	954 4.97	1290 5.00	2030 25.0	2160 25.0	2410 25.2

BRL - Below Reporting Limit

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

Jessica Kramer

Analytical Report 674013

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Nolan Ryan SWD

13084

10.07.2020

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



10.07.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **674013**

Nolan Ryan 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 Eurofins Xenco, LLC Report Number(s) 674013. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674013 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL20 @ 10"	S	09.30.2020 00:00	10 In	674013-001
FL28 @ 10"	S	09.30.2020 00:00	10 In	674013-002
FL36 @ 10"	S	09.30.2020 00:00	10 In	674013-003
FL37 @ 10"	S	09.30.2020 00:00	10 In	674013-004
FL38 @ 10"	S	09.30.2020 00:00	10 In	674013-005
FL39 @ 10"	S	09.30.2020 00:00	10 In	674013-006
FL42 @ 10"	S	09.30.2020 00:00	10 In	674013-007
FL45 @ 10"	S	09.30.2020 00:00	10 In	674013-008
FL47 @ 10"	S	09.30.2020 00:00	10 In	674013-009
FL48 @ 10"	S	09.30.2020 00:00	10 In	674013-010
FL49 @ 10"	S	09.30.2020 00:00	10 In	674013-011
FL50 @ 10"	S	09.30.2020 00:00	10 In	674013-012
FL52 @ 10"	S	09.30.2020 00:00	10 In	674013-013
FL54 @ 10"	S	09.30.2020 00:00	10 In	674013-014
FL55 @ 10"	S	09.30.2020 00:00	10 In	674013-015
FL56 @ 10"	S	09.30.2020 00:00	10 In	674013-016
FL58 @ 10"	S	09.30.2020 00:00	10 In	674013-017
FL60 @ 10"	S	09.30.2020 00:00	10 In	674013-018
FL61 @ 10"	S	09.30.2020 00:00	10 In	674013-019
FL62 @ 10"	S	09.30.2020 00:00	10 In	674013-020
FL63 @ 10"	S	09.30.2020 00:00	10 In	674013-021
FL64 @ 10"	S	09.30.2020 00:00	10 In	674013-022
FL71 @ 10"	S	09.30.2020 00:00	10 In	674013-023
FL75 @ 10"	S	09.30.2020 00:00	10 In	674013-024
FL76 @ 10"	S	09.30.2020 00:00	10 In	674013-025
FL77 @ 10"	S	09.30.2020 00:00	10 In	674013-026
FL78 @ 10"	S	09.30.2020 00:00	10 In	674013-027
FL79 @ 10"	S	09.30.2020 00:00	10 In	674013-028
FL80 @ 10"	S	09.30.2020 00:00	10 In	674013-029
FL81 @ 10"	S	09.30.2020 00:00	10 In	674013-030
FL82 @ 10"	S	09.30.2020 00:00	10 In	674013-031
FL84 @ 10"	S	09.30.2020 00:00	10 In	674013-032
FL85 @ 10"	S	09.30.2020 00:00	10 In	674013-033
FL88 @ 10"	S	09.30.2020 00:00	10 In	674013-034
FL90 @ 10"	S	09.30.2020 00:00	10 In	674013-035
FL91 @ 10"	S	09.30.2020 00:00	10 In	674013-036
FL92 @ 10"	S	09.30.2020 00:00	10 In	674013-037
FL94 @ 10"	S	09.30.2020 00:00	10 In	674013-038
FL95 @ 10"	S	09.30.2020 00:00	10 In	674013-039
FL96 @ 10"	S	09.30.2020 00:00	10 In	674013-040
FL97 @ 10"	S	09.30.2020 00:00	10 In	674013-041
FL98 @ 10"	S	09.30.2020 00:00	10 In	674013-042

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Nolan Ryan SWD**Project ID: 13084
Work Order Number(s): 674013Report Date: 10.07.2020
Date Received: 10.01.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3138678 Chloride by EPA 300

Lab Sample ID 674013-025 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 674013-015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3138742 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7712486-1-BKS, 7712486-1-BLK, 7712486-1-BSD, 674012-021 S, 674012-021 SD, 674013-002.

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL20 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-001

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	364	4.99	mg/kg	10.02.2020 18:56		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL28 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-002

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.6	4.95	mg/kg	10.02.2020 13:05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.01.2020 11:15

% Moisture:

Seq Number: 3138683

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.01.2020 21:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.01.2020 21:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.01.2020 21:23	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.01.2020 21:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-130	10.01.2020 21:23		
o-Terphenyl	84-15-1	89	%	70-130	10.01.2020 21:23		



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL28 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-002

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.01.2020 17:00

% Moisture:

Seq Number: 3138742

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 09:40	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 09:40	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 09:40	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.02.2020 09:40	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 09:40	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 09:40	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 09:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.02.2020 09:40	
4-Bromofluorobenzene	460-00-4	63	%	70-130	10.02.2020 09:40	**

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL36 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-003

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	612	5.05	mg/kg	10.02.2020 13:10		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL37 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-004

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.05.2020 14:45

% Moisture:

Seq Number: 3138915

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1710	24.8	mg/kg	10.05.2020 16:23		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL38 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-005

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1840	25.0	mg/kg	10.02.2020 13:21		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL39 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-006

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	625	5.03	mg/kg	10.02.2020 13:37		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL42 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-007

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1430	24.8	mg/kg	10.02.2020 13:42		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL45 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-008

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.7	5.05	mg/kg	10.02.2020 13:58		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL47 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-009

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2240	25.3	mg/kg	10.02.2020 14:03		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL48 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-010

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1830	24.8	mg/kg	10.02.2020 14:08		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL49 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-011

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	564	4.98	mg/kg	10.02.2020 14:14		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL50 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-012

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	611	5.00	mg/kg	10.02.2020 14:19		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL52 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-013

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	698	5.02	mg/kg	10.02.2020 14:24		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL54 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-014

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 15:40

% Moisture:

Seq Number: 3138795

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4130	25.0	mg/kg	10.02.2020 14:29		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL55 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-015

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1930	25.0	mg/kg	10.01.2020 20:16	X	5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL56 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-016

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	853	4.95	mg/kg	10.01.2020 20:32		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL58 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-017

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	633	4.99	mg/kg	10.01.2020 20:37		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL60 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-018

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	719	5.03	mg/kg	10.01.2020 20:43		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL61 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-019

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1270	4.96	mg/kg	10.01.2020 20:48		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL62 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-020

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1410	25.2	mg/kg	10.01.2020 21:04		5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL63 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-021

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2510	25.0	mg/kg	10.01.2020 21:09		5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL64 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-022

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	784	5.00	mg/kg	10.01.2020 21:14		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL71 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-023

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2160	25.1	mg/kg	10.01.2020 21:20		5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL75 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-024

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2450	25.3	mg/kg	10.01.2020 21:25		5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL76 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-025

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1720	24.9	mg/kg	10.01.2020 21:30	X	5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL77 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-026

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	861	4.97	mg/kg	10.01.2020 21:46		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL78 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-027

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.8	5.04	mg/kg	10.01.2020 21:51		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL79 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-028

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	729	4.96	mg/kg	10.01.2020 22:07		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL80 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-029

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	4.96	mg/kg	10.01.2020 22:12		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL81 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-030

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	714	5.00	mg/kg	10.01.2020 22:18		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL82 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-031

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1420	5.00	mg/kg	10.01.2020 22:23		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL84 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-032

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1170	5.00	mg/kg	10.01.2020 22:28		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL85 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-033

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1160	5.05	mg/kg	10.01.2020 22:33		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL88 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-034

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:00

% Moisture:

Seq Number: 3138678

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1140	4.97	mg/kg	10.01.2020 22:39		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL90 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-035

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	592	5.04	mg/kg	10.02.2020 17:58		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL91 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-036

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	810	4.96	mg/kg	10.02.2020 18:03		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL92 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-037

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	556	4.99	mg/kg	10.02.2020 18:19		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL94 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-038

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	954	4.97	mg/kg	10.02.2020 18:24		1



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL95@ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-039

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1290	5.00	mg/kg	10.02.2020 18:29		1

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL96 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-040

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2030	25.0	mg/kg	10.02.2020 18:34		5



Certificate of Analytical Results 674013

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **FL97 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-041

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2160	25.0	mg/kg	10.02.2020 18:40		5

**Certificate of Analytical Results 674013****Etech Environmental & Safety Solution, Inc, Midland, TX**

Nolan Ryan SWD

Sample Id: **FL98 @ 10"**

Matrix: Soil

Date Received: 10.01.2020 11:00

Lab Sample Id: 674013-042

Date Collected: 09.30.2020 00:00

Sample Depth: 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 10.01.2020 16:15

% Moisture:

Seq Number: 3138679

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2410	25.2	mg/kg	10.02.2020 18:45		5

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

Nolan Ryan SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3138795

Matrix: Solid

Prep Method: E300P

Date Prep: 10.01.2020

MB Sample Id: 7712460-1-BLK

LCS Sample Id: 7712460-1-BKS

LCSD Sample Id: 7712460-1-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	259	104	90-110	0	20	mg/kg	10.02.2020 11:57	

Analytical Method: Chloride by EPA 300

Seq Number: 3138678

Matrix: Solid

Prep Method: E300P

Date Prep: 10.01.2020

MB Sample Id: 7712461-1-BLK

LCS Sample Id: 7712461-1-BKS

LCSD Sample Id: 7712461-1-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	262	105	262	105	90-110	0	20	mg/kg	10.01.2020 20:06	

Analytical Method: Chloride by EPA 300

Seq Number: 3138679

Matrix: Solid

Prep Method: E300P

Date Prep: 10.01.2020

MB Sample Id: 7712462-1-BLK

LCS Sample Id: 7712462-1-BKS

LCSD Sample Id: 7712462-1-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	265	106	264	106	90-110	0	20	mg/kg	10.02.2020 16:17	

Analytical Method: Chloride by EPA 300

Seq Number: 3138915

Matrix: Solid

Prep Method: E300P

Date Prep: 10.05.2020

MB Sample Id: 7712642-1-BLK

LCS Sample Id: 7712642-1-BKS

LCSD Sample Id: 7712642-1-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	263	105	264	106	90-110	0	20	mg/kg	10.05.2020 15:25	

Analytical Method: Chloride by EPA 300

Seq Number: 3138795

Matrix: Soil

Prep Method: E300P

Date Prep: 10.01.2020

Parent Sample Id: 674013-005

MS Sample Id: 674013-005 S

MSD Sample Id: 674013-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1840	1500	3390	103	3390	103	90-110	0	20	mg/kg	10.02.2020 13:26	

Analytical Method: Chloride by EPA 300

Seq Number: 3138795

Matrix: Soil

Prep Method: E300P

Date Prep: 10.01.2020

Parent Sample Id: 674015-028

MS Sample Id: 674015-028 S

MSD Sample Id: 674015-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	1240	1730	112	1730	112	90-110	0	20	mg/kg	10.02.2020 12:12	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

Nolan Ryan SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3138678

Parent Sample Id: 674013-015

Matrix: Soil

MS Sample Id: 674013-015 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674013-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1930	1250	3340	113	3320	111	90-110	1	20	mg/kg	10.01.2020 20:22	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138678

Parent Sample Id: 674013-025

Matrix: Soil

MS Sample Id: 674013-025 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674013-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1720	1250	3110	111	3080	109	90-110	1	20	mg/kg	10.01.2020 21:35	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138679

Parent Sample Id: 673890-010

Matrix: Soil

MS Sample Id: 673890-010 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 673890-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.8	248	287	111	287	111	90-110	0	20	mg/kg	10.02.2020 17:47	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138679

Parent Sample Id: 674012-041

Matrix: Soil

MS Sample Id: 674012-041 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674012-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.6	252	287	108	282	107	90-110	2	20	mg/kg	10.02.2020 16:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3138915

Parent Sample Id: 674152-002

Matrix: Soil

MS Sample Id: 674152-002 S

Prep Method: E300P

Date Prep: 10.05.2020

MSD Sample Id: 674152-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	91.1	249	352	105	352	105	90-110	0	20	mg/kg	10.05.2020 15:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3138915

Parent Sample Id: 674254-005

Matrix: Soil

MS Sample Id: 674254-005 S

Prep Method: E300P

Date Prep: 10.05.2020

MSD Sample Id: 674254-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	332	250	591	104	593	104	90-110	0	20	mg/kg	10.05.2020 16:54	

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

Nolan Ryan SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138683

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.01.2020

MB Sample Id: 7712480-1-BLK

LCS Sample Id: 7712480-1-BKS

LCSD Sample Id: 7712480-1-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	951	95	1000	100	70-130	5	20	mg/kg	10.01.2020 12:39	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1030	103	70-130	1	20	mg/kg	10.01.2020 12:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		107		106		70-130	%	10.01.2020 12:39
o-Terphenyl	91		96		95		70-130	%	10.01.2020 12:39

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138683

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.01.2020

MB Sample Id: 7712480-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.01.2020 12:17	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138683

Matrix: Soil

Prep Method: SW8015P

Date Prep: 10.01.2020

Parent Sample Id: 673912-001

MS Sample Id: 673912-001 S

MSD Sample Id: 673912-001 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	882	88	869	87	70-130	1	20	mg/kg	10.01.2020 13:44	
Diesel Range Organics (DRO)	<49.9	997	967	97	994	100	70-130	3	20	mg/kg	10.01.2020 13:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		96		70-130	%	10.01.2020 13:44
o-Terphenyl	82		85		70-130	%	10.01.2020 13:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138742

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.01.2020

MB Sample Id: 7712486-1-BLK

LCS Sample Id: 7712486-1-BKS

LCSD Sample Id: 7712486-1-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	0.0914	91	0.0876	88	70-130	4	35	mg/kg	10.01.2020 21:54	
Toluene	<0.00200	0.100	0.0853	85	0.0822	82	70-130	4	35	mg/kg	10.01.2020 21:54	
Ethylbenzene	<0.00200	0.100	0.0817	82	0.0771	77	70-130	6	35	mg/kg	10.01.2020 21:54	
m,p-Xylenes	<0.00400	0.200	0.171	86	0.162	81	70-130	5	35	mg/kg	10.01.2020 21:54	
o-Xylene	<0.00200	0.100	0.0846	85	0.0802	80	70-130	5	35	mg/kg	10.01.2020 21:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		117		120		70-130	%	10.01.2020 21:54
4-Bromofluorobenzene	43	**	50	**	51	**	70-130	%	10.01.2020 21:54

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
Nolan Ryan SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138742

Matrix: Soil

Prep Method: SW5035A

Date Prep: 10.01.2020

Parent Sample Id: 674012-021

MS Sample Id: 674012-021 S

MSD Sample Id: 674012-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0684	69	0.0616	62	70-130	10	35	mg/kg	10.01.2020 22:36	X
Toluene	<0.00200	0.0998	0.0644	65	0.0562	57	70-130	14	35	mg/kg	10.01.2020 22:36	X
Ethylbenzene	<0.00200	0.0998	0.0605	61	0.0507	51	70-130	18	35	mg/kg	10.01.2020 22:36	X
m,p-Xylenes	<0.00399	0.200	0.128	64	0.107	54	70-130	18	35	mg/kg	10.01.2020 22:36	X
o-Xylene	<0.00200	0.0998	0.0621	62	0.0523	53	70-130	17	35	mg/kg	10.01.2020 22:36	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	119		122		70-130	%	10.01.2020 22:36
4-Bromofluorobenzene	52	**	51	**	70-130	%	10.01.2020 22:36

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

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 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: 674013www.xenco.com Page 1 of 5**Work Order Comments**
 Program: ☐ PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
 State of Project:

 Reporting Level: ☐ Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level I ☐
 Deliverables: EDD ☐ ADAPT ☐ Other:
ANALYSIS REQUEST
 Project Name: Nolan Ryan 520
 Project Number: 13084
 Project Location: Kearl Co. County, NM
 Sampler's Name: Miguel Ramirez
 PO #:
 Turn Around: ☒
 Routine: ☒
 Rush: ☐
 Due Date:

 SAMPLE RECEIPT
 Temperature (°C): 21.2.6
 Received Inlet: Yes ☒ No ☐
 Cooler Custody Seals: Yes ☒ No ☐
 Sample Custody Seals: Yes ☒ No ☐
 Correction Factor: R9
 Total Containers: 0.5

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
FL 20610"	Soil	9.30.20		10"
FL 28810"	Soil	9.30.20		10"
FL 3610"	Soil	9.30.20		10"
FL 3710"	Soil	9.30.20		10"
FL 3810"	Soil	9.30.20		10"
FL 3410"	Soil	9.30.20		10"
FL 4210"	Soil	9.30.20		10"
FL 4510"	Soil	9.30.20		10"
FL 4710"	Soil	9.30.20		10"
FL 4810"	Soil	9.30.20		10"

Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
	☒	☒	☒	☒

Sample Comments

TAT starts the day received by the lab, if received by 4:30pm

 Preservative Codes
 HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: NA
 MeOH: ME
 Zn Acetate+ NaOH: ZN

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 1631 / 245.1 / 7470 / 7471 : Hg

 Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 3:53/9-30 Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 10/20/20 11:00

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 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (904) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8900

Work Order No: **674013**www.xenco.com Page **2** of **5****Work Order Comments**
 Program: ☐ UST/PSR ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project:

 Reporting Level: ☐ Level I ☐ Level II ☐ PST/UST ☐ TRR ☐ Level III
 Deliverables: EDD ☐ ADAPT ☐ Other:
ANALYSIS REQUEST**Preservative Codes**
 HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: NA
 MeOH: ME
 Zn Acetate+ NaOH: ZN

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	ANALYSIS REQUEST	Preservative Codes
FL 49010'	Soil	9.30.20		10"	1	X					
FL 50010'	Soil	9.30.20		16"	1	X					
FL 52010'	Soil	9.30.20		16"	1	X					
FL 54010'	Soil	9.30.20		16"	1	X					
FL 55010'	Soil	9.30.20		16"	1	X					
FL 56010'	Soil	9.30.20		16"	1	X					
FL 58010'	Soil	9.30.20		10"	1	X					
FL 60010'	Soil	9.30.20		10"	1	X					
FL 61010'	Soil	9.30.20		10"	1	X					
FL 62010'	Soil	9.30.20		10"	1	X					
Total 200.7 / 6010	200.8 / 6020:										

Circle Method(s) and Metal(s) to be analyzed

 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
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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1631 / 245.1 / 7470 / 7471 : Hg

 Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date/Time 3:53/9-30

 Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date/Time 10-1-2020 11:00

XENCO**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) 794-1295
 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: **674013**www.xenco.com Page **3** of **5****Work Order Comments**
 Program: ☐ UT/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project:

 Reporting Level: ☐ Level I ☐ PST/US ☐ TRR ☐ Level II ☐
 Deliverables: EDD ☐ ADAPT ☐ Other:
ANALYSIS REQUEST
 Project Manager: **Joel Lowry** Bill to: (if different)
 Company Name: **Elech Environmental & Safety** Company Name: **Goodnight Midstream**
 Address: **3100 Plains Highway** Address:
 City, State ZIP: **Longington, NM, 88260** City, State ZIP:
 Phone: **575-396-2378** Email: **Email Results to PM@elechemv.com + Client**
 Project Name: **Wolva Ryan SWP** Turn Around
 Project Number: **13084** Routine: ☒
 Project Location: **Rural Pa County, NM** Rush: ☐
 Sample's Name: **Unge/Kam/Nez** Due Date:
 PO #:

SAMPLE RECEIPT
 Temp Blank: Yes No Wet Ice: Yes No
 Received Inact: Yes No Thermometer ID
 Cooler Custody Seals: Yes No N/A Correction Factor:
 Sample Custody Seals: Yes No N/A Total Containers:

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Preservative Codes	Sample Comments
FL 63010"	Soil	9.30.20		10"	1	X				HN	
FL 64010"	Soil	9.30.20		10"	1	X				H2SO4: H2	
FL 71010"	Soil	9.30.20		10"	1	X				HCL: HL	
FL 75010"	Soil	9.30.20		10"	1	X				None: NO	
FL 76010"	Soil	9.30.20		10"	1	X				NaOH: Na	
FL 77010"	Soil	9.30.20		10"	1	X				MeOH: Me	
FL 78010"	Soil	9.30.20		10"	1	X				Zn Acetate+ NaOH: Zn	
FL 79010"	Soil	9.30.20		10"	1	X					
FL 80010"	Soil	9.30.20		10"	1	X					
FL 81010"	Soil	9.30.20		10"	1	X					
Total 200.7 / 6010		200.8 / 6020:									

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 Relinquished by: (Signature) **Joel Lowry** Received by: (Signature) **NR** Date/Time **9-30/3-54** Relinquished by: (Signature) **NR** Received by: (Signature) **asg** Date/Time **10.1.2020 11:00**

XENCO**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: **674013**www.xenco.com Page **4** of **5**

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Elech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lawton, NM, 88260	City, State ZIP:	
Phone:	575-396-2378		
Project Name:	Palan Ryan SUD	Email:	Email Results to PM@elecheny.com + Client
Project Number:	13084		
Project Location:	Rural Lea County, NM	Turn Around	
Sampler's Name:	Miguel Kauri re 2	Rush:	☐
PO #:		Due Date:	

ANALYSIS REQUEST

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project:	
Reporting Level: ☐	Level: ☐ PST/US ☐ TRR ☐ Level: ☐
Deliverables: EDD ☐	ADAPT ☐ Other: ☐

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):				Thermometer ID		
Received Inlet:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code															
FL 82 @ 10"	Soil	9.30.20			10"	X	Chloride E300														
FL 84 @ 10"	Soil	9.30.20			10"	X	BTEX 8021														
FL 85 @ 10"	Soil	9.30.20			10"	X	TPH Modified Ext														
FL 88 @ 10"	Soil	9.30.20			10"	X	TPH TX1005														
FL 90 @ 10"	Soil	9.30.20			10"	X															
FL 91 @ 10"	Soil	9.30.20			10"	X															
FL 92 @ 10"	Soil	9.30.20			10"	X															
FL 94 @ 10"	Soil	9.30.20			10"	X															
FL 95 @ 10"	Soil	9.30.20			10"	X															
FL 96 @ 10"	Soil	9.30.20			10"	X															
Total 200.7 / 6010 200.8 / 6020:																					

Circle Method(s) and Metal(s) to be analyzed: 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
 TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date/Time 3:54/9-30-20

Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date/Time 10-1-20 11:00

XENCO**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: **674013**www.xenco.com Page **5** of **5****Work Order Comments**
 Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project:

 Reporting Level: ☐ Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level I ☐
 Deliverables: EDD ☐ ADAPT ☐ Other:
ANALYSIS REQUEST**Preservative Codes**
 HNO₃: HN
 H₂SO₄: H2
 HCL: HL
 None: NO
 NaOH: NA
 MeOH: ME
 Zn Acetate + NaOH: Zn

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Project Manager:		Joel Lowry		Bill to: (if different)			
Company Name:		Elech 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@elechemv.com + Client	
Project Name:		Jolan Ryan SWD		Turn Around		☒	
Project Number:		13084		Routine:		☐	
Project Location:		Rural Lea County, NM		Rush:		☐	
Sampler's Name:		Miguel Ramirez		Due Date:			
PO #:							

SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	2.1	Thermometer ID	R9		
Received Inlet:	Yes ☒ No ☐	Correction Factor:	0.5		
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:	0.5		
Sample Custody Seals:	Yes ☐ No ☒				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code
FL 97C10	Soil	9.30.20		16"	1
FL 98C10	Soil	9.30.20		10"	1

Total 200.7 / 6010 200.8 / 6020:

 Circle Method(s) and Metal(s) to be analyzed: 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
 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

 Relinquished by (Signature): *[Signature]* Received by (Signature): *[Signature]* Date/Time: 3:54/19-30-2019 Relinquished by (Signature): *[Signature]* Received by (Signature): *[Signature]* Date/Time: 10.1.2011

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 10.01.2020 11.00.00 AM

Work Order #: 674013

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.6
#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: 10.01.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.01.2020

Certificate of Analysis Summary 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Nolan Ryan SWD

Project Id: 13084
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Mon 10.05.2020 10:38
Report Date: 10.07.2020 16:52
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 674252-001 Field Id: NSW1B Depth: Matrix: SOIL Sampled: 10.01.2020 00:00	Lab Id: 674252-002 Field Id: NSW2B Depth: Matrix: SOIL Sampled: 10.01.2020 00:00	Lab Id: 674252-003 Field Id: NSW3B Depth: Matrix: SOIL Sampled: 10.01.2020 00:00			
BTEX by EPA 8021B	Extracted: 10.05.2020 14:00 Analyzed: 10.05.2020 18:14 Units/RL: mg/kg RL	Extracted: 10.05.2020 14:00 Analyzed: 10.05.2020 18:35 Units/RL: mg/kg RL	Extracted: 10.05.2020 14:00 Analyzed: 10.05.2020 18:56 Units/RL: mg/kg RL			
Benzene	0.0102 0.00199	0.0234 0.00199	0.00677 0.00198			
Toluene	0.0246 0.00199	0.0625 0.00199	0.0208 0.00198			
Ethylbenzene	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
m,p-Xylenes	<0.00398 0.00398	<0.00398 0.00398	<0.00396 0.00396			
o-Xylene	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Total Xylenes	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Total BTEX	0.0348 0.00199	0.0859 0.00199	0.0276 0.00198			
Chloride by EPA 300	Extracted: 10.06.2020 12:40 Analyzed: 10.06.2020 17:53 Units/RL: mg/kg RL	Extracted: 10.06.2020 12:40 Analyzed: 10.06.2020 17:58 Units/RL: mg/kg RL	Extracted: 10.06.2020 12:40 Analyzed: 10.06.2020 18:04 Units/RL: mg/kg RL			
Chloride	1090 4.96	160 5.04	189 5.00			
TPH By SW8015 Mod	Extracted: 10.06.2020 12:00 Analyzed: 10.06.2020 21:03 Units/RL: mg/kg RL	Extracted: 10.06.2020 12:00 Analyzed: 10.06.2020 21:25 Units/RL: mg/kg RL	Extracted: 10.06.2020 12:00 Analyzed: 10.06.2020 21:47 Units/RL: mg/kg RL			
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<49.9 49.9	<49.8 49.8			
Diesel Range Organics (DRO)	<50.0 50.0	<49.9 49.9	<49.8 49.8			
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<49.9 49.9	<49.8 49.8			
Total TPH	<50.0 50.0	<49.9 49.9	<49.8 49.8			

BRL - Below Reporting Limit

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



Analytical Report 674252

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Nolan Ryan SWD

13084

10.07.2020

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



10.07.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **674252**

Nolan Ryan 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 Eurofins Xenco, LLC Report Number(s) 674252. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674252 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NSW1B	S	10.01.2020 00:00		674252-001
NSW2B	S	10.01.2020 00:00		674252-002
NSW3B	S	10.01.2020 00:00		674252-003



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Nolan Ryan SWD

Project ID: 13084
Work Order Number(s): 674252

Report Date: 10.07.2020
Date Received: 10.05.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NSW1B**
Lab Sample Id: 674252-001

Matrix: Soil
Date Collected: 10.01.2020 00:00

Date Received: 10.05.2020 10:38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: CHE

Date Prep: 10.06.2020 12:40

% Moisture:
Basis: Wet Weight

Seq Number: 3139035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1090	4.96	mg/kg	10.06.2020 17:53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.06.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139087

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.06.2020 21:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.06.2020 21:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.06.2020 21:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.06.2020 21:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-130	10.06.2020 21:03		
o-Terphenyl	84-15-1	90	%	70-130	10.06.2020 21:03		



Certificate of Analytical Results 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NSW1B**
Lab Sample Id: 674252-001

Matrix: Soil
Date Collected: 10.01.2020 00:00

Date Received: 10.05.2020 10:38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.05.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138918

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0102	0.00199	mg/kg	10.05.2020 18:14		1
Toluene	108-88-3	0.0246	0.00199	mg/kg	10.05.2020 18:14		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.05.2020 18:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.05.2020 18:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.05.2020 18:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.05.2020 18:14	U	1
Total BTEX		0.0348	0.00199	mg/kg	10.05.2020 18:14		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.05.2020 18:14		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.05.2020 18:14		



Certificate of Analytical Results 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NSW2B**
Lab Sample Id: 674252-002

Matrix: Soil
Date Collected: 10.01.2020 00:00

Date Received: 10.05.2020 10:38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: CHE

Date Prep: 10.06.2020 12:40

% Moisture:
Basis: Wet Weight

Seq Number: 3139035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	5.04	mg/kg	10.06.2020 17:58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.06.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139087

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.06.2020 21:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.06.2020 21:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.06.2020 21:25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.06.2020 21:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-130	10.06.2020 21:25		
o-Terphenyl	84-15-1	86	%	70-130	10.06.2020 21:25		



Certificate of Analytical Results 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NSW2B**
Lab Sample Id: 674252-002

Matrix: Soil
Date Collected: 10.01.2020 00:00

Date Received: 10.05.2020 10:38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.05.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138918

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0234	0.00199	mg/kg	10.05.2020 18:35		1
Toluene	108-88-3	0.0625	0.00199	mg/kg	10.05.2020 18:35		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.05.2020 18:35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.05.2020 18:35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.05.2020 18:35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.05.2020 18:35	U	1
Total BTEX		0.0859	0.00199	mg/kg	10.05.2020 18:35		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.05.2020 18:35		
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.05.2020 18:35		



Certificate of Analytical Results 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NSW3B**
Lab Sample Id: 674252-003

Matrix: Soil
Date Collected: 10.01.2020 00:00

Date Received: 10.05.2020 10:38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

Analyst: CHE

Date Prep: 10.06.2020 12:40

% Moisture:
Basis: Wet Weight

Seq Number: 3139035

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	189	5.00	mg/kg	10.06.2020 18:04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 10.06.2020 12:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139087

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.06.2020 21:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.06.2020 21:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.06.2020 21:47	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.06.2020 21:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-130	10.06.2020 21:47		
o-Terphenyl	84-15-1	103	%	70-130	10.06.2020 21:47		



Certificate of Analytical Results 674252

Etech Environmental & Safety Solution, Inc, Midland, TX

Nolan Ryan SWD

Sample Id: **NSW3B**
Lab Sample Id: 674252-003

Matrix: Soil
Date Collected: 10.01.2020 00:00

Date Received: 10.05.2020 10:38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 10.05.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138918

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00677	0.00198	mg/kg	10.05.2020 18:56		1
Toluene	108-88-3	0.0208	0.00198	mg/kg	10.05.2020 18:56		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.05.2020 18:56	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.05.2020 18:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.05.2020 18:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.05.2020 18:56	U	1
Total BTEX		0.0276	0.00198	mg/kg	10.05.2020 18:56		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.05.2020 18:56		
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.05.2020 18:56		

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

Nolan Ryan SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3139035

MB Sample Id: 7712727-1-BLK

Matrix: Solid

LCS Sample Id: 7712727-1-BKS

Prep Method: E300P

Date Prep: 10.06.2020

LCSD Sample Id: 7712727-1-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	265	106	267	107	90-110	1	20	mg/kg	10.06.2020 16:39	

Analytical Method: Chloride by EPA 300

Seq Number: 3139035

Parent Sample Id: 674252-003

Matrix: Soil

MS Sample Id: 674252-003 S

Prep Method: E300P

Date Prep: 10.06.2020

MSD Sample Id: 674252-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	189	250	455	106	457	107	90-110	0	20	mg/kg	10.06.2020 18:09	

Analytical Method: Chloride by EPA 300

Seq Number: 3139035

Parent Sample Id: 674306-026

Matrix: Soil

MS Sample Id: 674306-026 S

Prep Method: E300P

Date Prep: 10.06.2020

MSD Sample Id: 674306-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	18.4	250	280	105	286	107	90-110	2	20	mg/kg	10.06.2020 16:55	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3139087

MB Sample Id: 7712737-1-BLK

Matrix: Solid

LCS Sample Id: 7712737-1-BKS

Prep Method: SW8015P

Date Prep: 10.06.2020

LCSD Sample Id: 7712737-1-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	913	91	875	88	70-130	4	20	mg/kg	10.06.2020 12:54	
Diesel Range Organics (DRO)	<50.0	1000	999	100	936	94	70-130	7	20	mg/kg	10.06.2020 12:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		106		102		70-130	%	10.06.2020 12:54
o-Terphenyl	93		106		98		70-130	%	10.06.2020 12:54

Analytical Method: TPH By SW8015 Mod

Seq Number: 3139087

Matrix: Solid

MB Sample Id: 7712737-1-BLK

Prep Method: SW8015P

Date Prep: 10.06.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.06.2020 12:31	

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

Nolan Ryan SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3139087

Parent Sample Id: 674306-001

Matrix: Soil

MS Sample Id: 674306-001 S

Prep Method: SW8015P

Date Prep: 10.06.2020

MSD Sample Id: 674306-001 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)	<49.8	996	876	88	819	82	70-130	7	20	mg/kg	10.06.2020 14:01	
Diesel Range Organics (DRO)	<49.8	996	895	90	886	89	70-130	1	20	mg/kg	10.06.2020 14:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		104		70-130	%	10.06.2020 14:01
o-Terphenyl	97		98		70-130	%	10.06.2020 14:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138918

MB Sample Id: 7712679-1-BLK

Matrix: Solid

LCS Sample Id: 7712679-1-BKS

Prep Method: SW5035A

Date Prep: 10.05.2020

LCSD Sample Id: 7712679-1-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	0.102	102	0.0999	100	70-130	2	35	mg/kg	10.05.2020 15:12	
Toluene	<0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	10.05.2020 15:12	
Ethylbenzene	<0.00200	0.100	0.101	101	0.0991	99	70-130	2	35	mg/kg	10.05.2020 15:12	
m,p-Xylenes	<0.00400	0.200	0.215	108	0.214	107	70-130	0	35	mg/kg	10.05.2020 15:12	
o-Xylene	<0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	10.05.2020 15:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		101		99		70-130	%	10.05.2020 15:12
4-Bromofluorobenzene	85		95		95		70-130	%	10.05.2020 15:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138918

Parent Sample Id: 674250-001

Matrix: Soil

MS Sample Id: 674250-001 S

Prep Method: SW5035A

Date Prep: 10.05.2020

MSD Sample Id: 674250-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0820	83	0.0880	88	70-130	7	35	mg/kg	10.05.2020 15:57	
Toluene	<0.00198	0.0992	0.0823	83	0.0892	89	70-130	8	35	mg/kg	10.05.2020 15:57	
Ethylbenzene	<0.00198	0.0992	0.0764	77	0.0812	81	70-130	6	35	mg/kg	10.05.2020 15:57	
m,p-Xylenes	0.0134	0.198	0.170	79	0.182	84	70-130	7	35	mg/kg	10.05.2020 15:57	
o-Xylene	0.00866	0.0992	0.0828	75	0.0966	88	70-130	15	35	mg/kg	10.05.2020 15:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		104		70-130	%	10.05.2020 15:57
4-Bromofluorobenzene	111		120		70-130	%	10.05.2020 15:57

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

XENCO**Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (904) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8900

Work Order No: 674253

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Electech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lawton, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@electechenv.com + Client
Project Name:	Nolan Ryan SWD	Turn Around	
Project Number:	13084	Routine:	☒
Project Location:	Rural Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT	
Temperature (°C):	2.6/3.1
Received Inlet:	Yes No
Cooler Custody Seals:	Yes No N/A
Sample Custody Seals:	Yes No N/A
Temp Blank:	Yes No
Wet Ice:	Yes No
Thermometer ID:	128

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
NSW1B	Soil	10-1-20		1
NSW2B	Soil	10-1-20		1
NSW3B	Soil	10-1-20		1

Number of Containers/Preservative Code

Chloride E300

BTEX 6021

TPH Modified Ext

TPH TX1005

ANALYSIS REQUEST

Program: UST/PST	☐	PRP	☐	Brownfields	☐	RRC	☐	Superfund	☐
State of Project:									
Reporting Level:	☐	Level	☐	PST/UST	☐	TRR	☐	Level	☐
Deliverables:	EDD	☐	ADAPT	☐	Other:				

Preservative Codes

HNO3: HN

H2SO4: H2

HCL: HL

None: NO

NaOH: NA

MeOH: ME

Zn Acetate+ NaOH: ZN

TAT Starts the day received by the lab, if received by 4:30pm

Sample Comments

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

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) [Signature] Received by: (Signature) Teresa Arredondo Date/Time 10/02/20

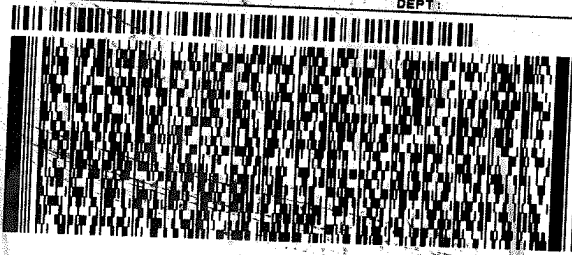
Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 10/02/20

ORIGIN ID: HOB	SHIP DATE: 020CT20
* MAIL SERVICES ETC	ACTWGT: 24.00 LB MAN
4008 N GRIMES	CAD: 0103352/CAFE3313
HOBBS, NM 88240	DIMS: 19x17x11 IN
UNITED STATES US	BILL RECIPIENT

TO XENCO HOLD FOR PICKUP
FEDEX OFFICE PRINT & SHIP CENTER
FEDEX OFFICE PRINT & SHIP CENTER
200 W INTERSTATE 20
MIDLAND TX 79701

(432) 704-5440
INV: REF: DEPT:

565C2/A27E/05A2

 **FedEx**
Express


TRK# 9061 5135 0753
0201

41 MAFA

SATURDAY HOLD
PRIORITY OVERNIGHT
HLD
MAFKI
TX-US LBB



Pen # 126148-434 RT EXP 0121 **

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 10.05.2020 10.38.00 AM

Work Order #: 674252

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.1
#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: 10.05.2020

Checklist reviewed by:



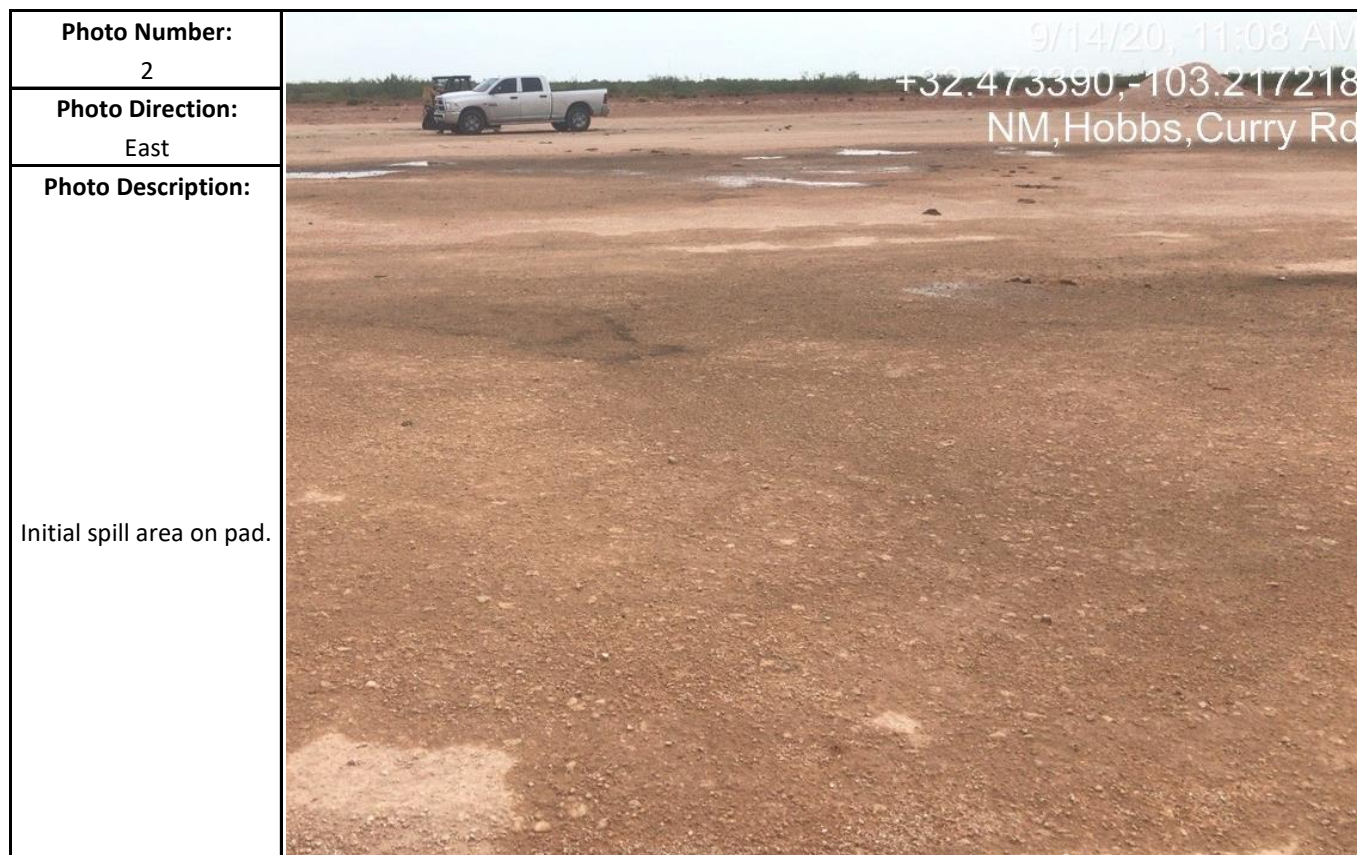
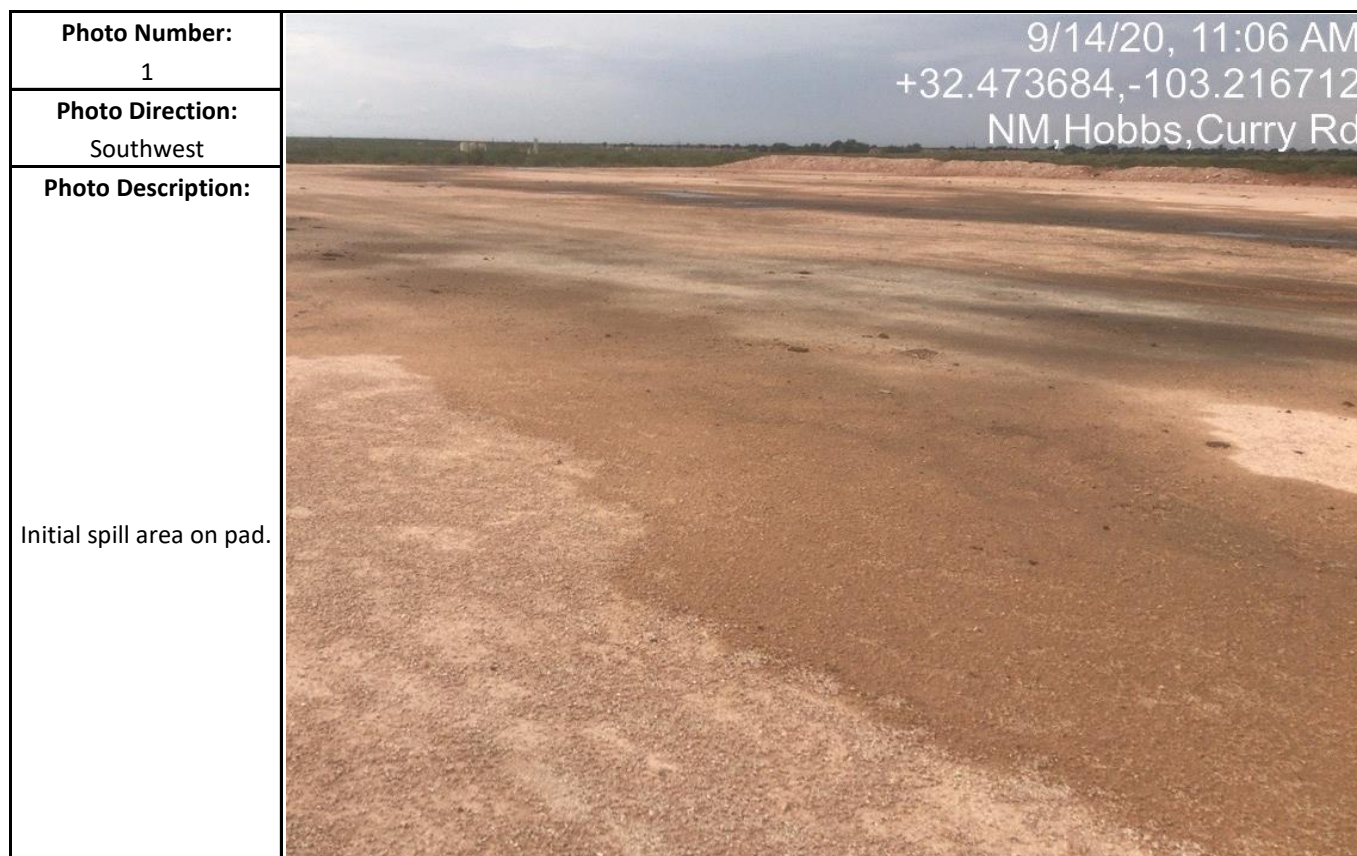
Jessica Kramer

Date: 10.06.2020

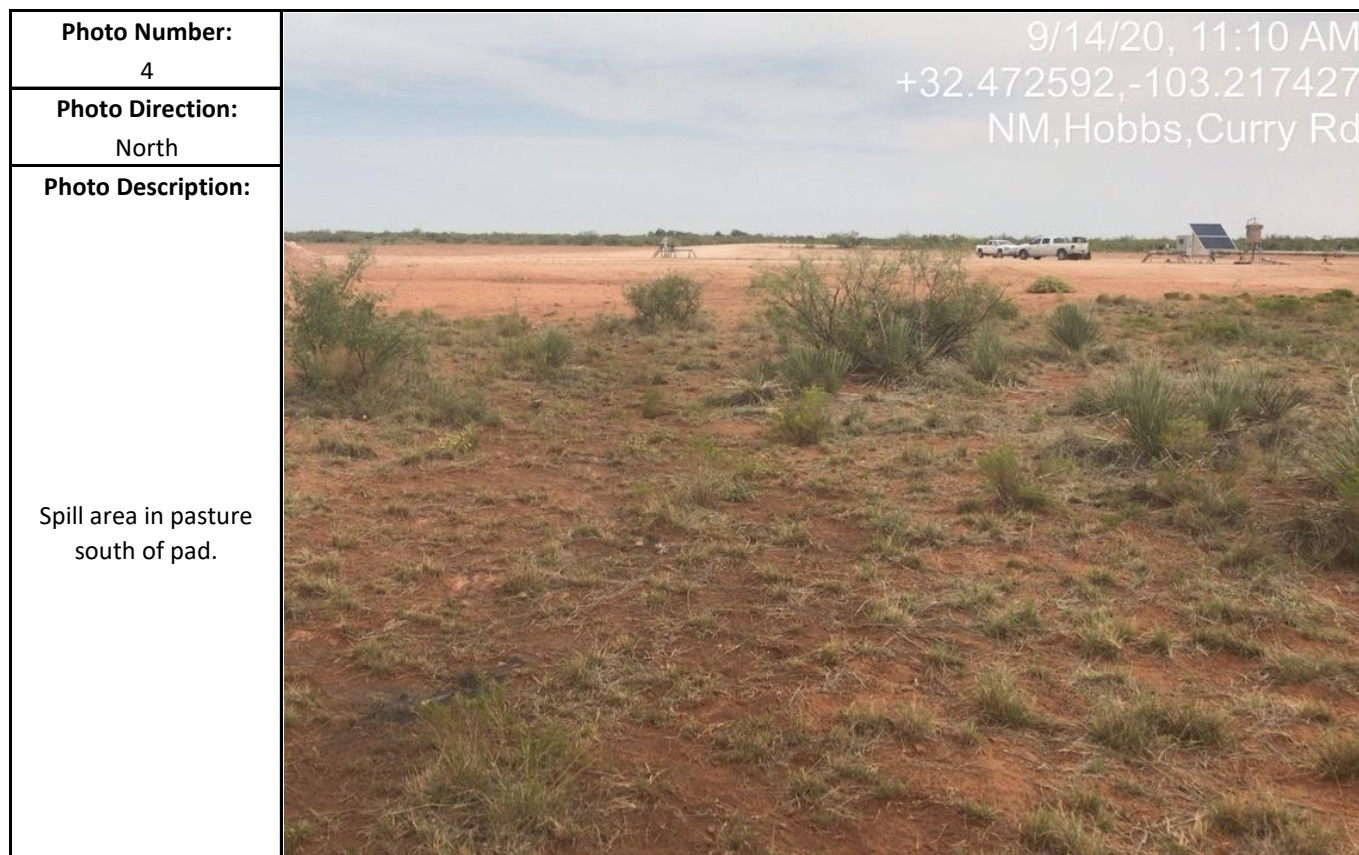
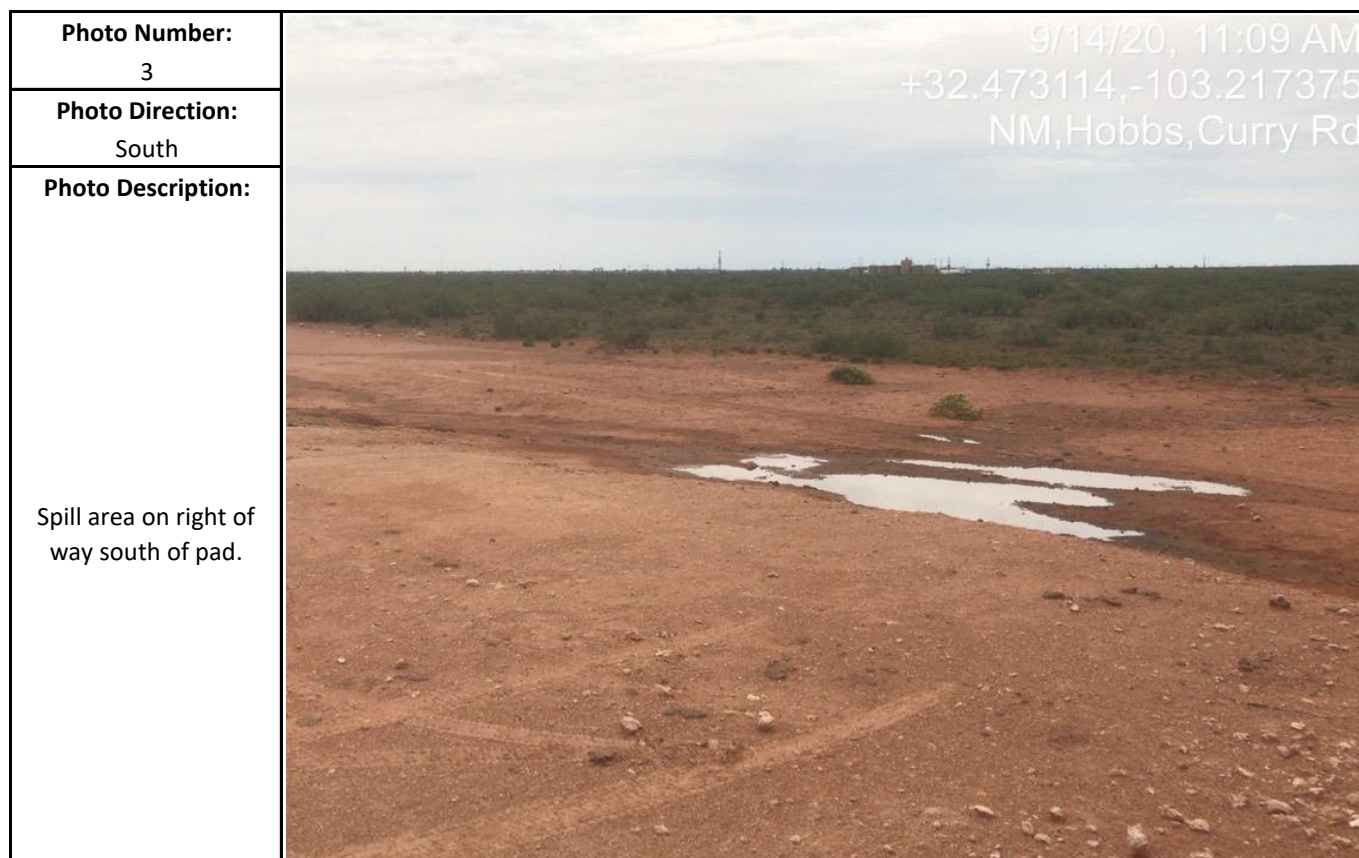
Appendix D

Photographic Log

Photographic Log



Photographic Log

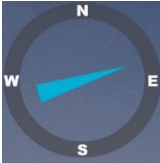


Photographic Log

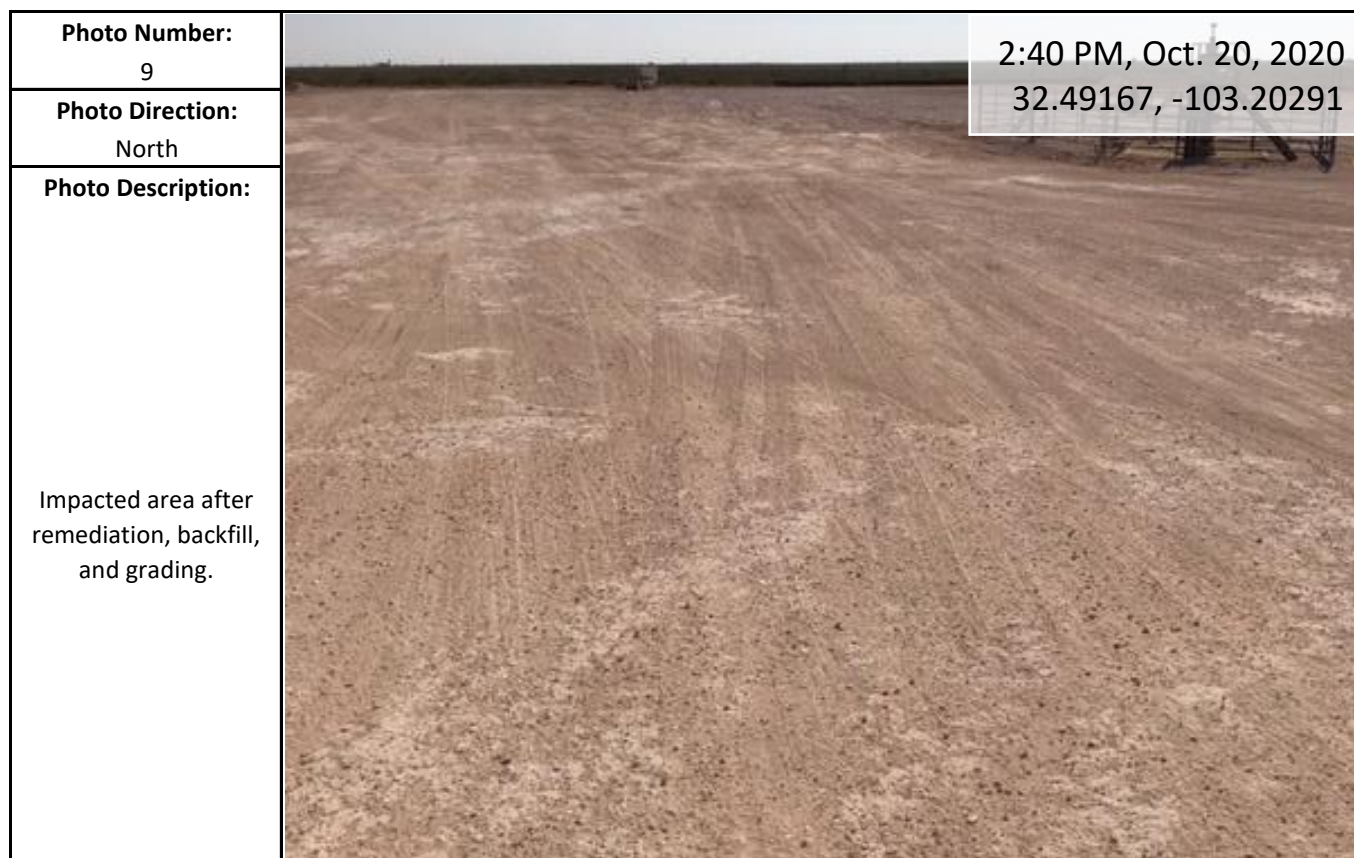


Photographic Log

Photo Number: 7	 Sep 21, 2020 at 1:51:20 PM +32.472975,-103.217427 ±5.00m 103° E 
Photo Direction: East	
Photo Description: Excavation on right of way south of pad.	

Photo Number: 8	 Sep 21, 2020 at 1:51:04 PM +32.472962,-103.217199 ±5.00m 72° E 
Photo Direction: East	
Photo Description: Scraping impacted soil off of pad.	

Photographic Log



Photographic Log

Photo Number: 11		2:37 PM, Oct. 20, 2020 32.49167, -103.20291
Photo Direction: East		
Photo Description: Impacted area after remediation, backfill, and grading.		

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 11159

CONDITIONS OF APPROVAL

Operator: GOODNIGHT MIDSTREAM PERMIAN, L Suite 850 Dallas, TX75206	5910 North Central Expressway	OGRID: 372311	Action Number: 11159	Action Type: C-141
OCD Reviewer ceads	Condition None			