

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2030333188
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Endeavor Energy Resources, LP	OGRID	190595
Contact Name	Teffanie Fawks	Contact Telephone	432-238-8808
Contact email	teffanies@eeronline.com	Incident #	(assigned by OCD)
Contact mailing address	110 N. Marienfeld St., Suite 200, Midland, TX 79701		

Location of Release Source

Latitude 33.61575 _____ Longitude -103.55134 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Conoco #4	Site Type	Oil Well
Date Release Discovered	3/4/2020	API# (if applicable)	30-005-20864

Unit Letter	Section	Township	Range	County
O	15	8S	33E	Chaves

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Seed Family Ranch, LLC _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 3.4	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 3.4	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

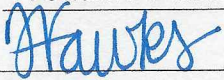
This release was attributed to a stuffing box release.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Teffanie Fawks</u> Signature: <u></u> email: <u>teffanies@eeronline.com</u>	Title: <u>Environmental Specialist</u> Date: <u>10/20/20</u> Telephone: <u>432-262-4203</u>
OCD Only Received by: <u>Cristina Eads</u> Date: <u>10/22/2020</u>	

**Volume Calculation****Conoco #4**

ID	Area (Ft ²)	Depth (Ft)	%Porosity/ Saturation	Volume (Ft ³)	Volume (bbls)
Area 1	1,509	0.167	0.15	37.80	6.73

Volume of Liquid Remaining in Soil:	6.7	bbls
Volume Recovered:	0.0	bbls
Total Volume:	6.7	bbls
Oil (Approximate)	50.0	%
Volume of Oil Released:	3.4	bbls
Volume of Water Released:	3.4	bbls
Volume of Oil Recovered:	0.0	bbls
Volume of Water Recovered:	0.0	bbls

Incident ID	NRM2030333188
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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?	<u>132 Ft</u> (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.

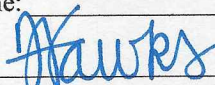
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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.

State of New Mexico
Oil Conservation Division

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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: Teffanie Fawks Title: Environmental Specialist
Signature:  Date: 5/27/2020
email: teffanies@eeronline.com Telephone: 432-262-4203

OCD Only

Received by: Cristina Eads Date: 10/22/2020

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030333188
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Application ID	

Remediation Plan

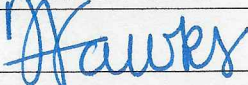
Remediation Plan Checklist: Each of the following items must be included in the plan.

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

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

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

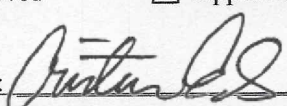
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Teffanie Fawks Title: Environmental Specialist
Signature:  Date: 5/27/2020
email: teffanies@eeronline.com Telephone: 432-262-4203

OCD Only

Received by: Cristina Eads Date: 10/22/2020

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

Signature:  Date: 01/08/2021

Incident ID	
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: Teffanie Fawks Title: Environmental Specialist
Signature: _____ Date: 5/27/2020
email: teffanies@eeronline.com Telephone: 432-262-4203

OCD Only

Received by: _____ Date: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary and Deferral Request

Endeavor Energy Resources, LP Conoco #4

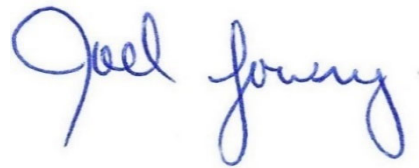
Chaves County, New Mexico
Unit Letter O, Section 15, Township 8 South, Range 33 East
Latitude 33.61575 North, Longitude 103.55133 West
NMOCD Reference No. pending

Prepared By:

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



Lance Crenshaw



Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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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 Endeavor Energy Resources, LP, has prepared this Remediation Summary and Deferral Request for the Release Site known as the Conoco #4. Details of the release are summarized below:

Location of Release Source

Latitude: 33.61575 Longitude: -103.55133

Provided GPS are in WGS84 format.

Site Name:	Conoco #4	Site Type:	Pumping Unit
Date Release Discovered:	3/4/2020	API # (if applicable):	30-005-20864

Unit Letter	Section	Township	Range	County
O	15	8S	33E	Chaves

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Seed Family Ranch, LLC)

Nature and Volume of Release

☒ Crude Oil	Volume Released (bbls) <u>3.4</u>	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) <u>3.4</u>	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	☐ Yes ☐ No ☐ N/A
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: The release was attributed to a stuffing box failure.		

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

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
132 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A 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 March 6, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

On March 27, 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 March 31, 2020, Etech collected fifteen (15) excavation confirmation soil samples (FL 1 @ 4' through FL-5 @ 4, FL 6 @ 2' through FL 8 @ 2', FL 9 @ 4' FL 10 @ 4', NW1 - 4', NW2 -4', NEW1 - 2', SW1 - 2' and WW1 - 2') from the floor and sidewalls of the excavated area. 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 were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On April 2, 2020, Etech collected nineteen (19) excavation confirmation soil samples (FL 11 - FL 25, EW 6, EW 7, WW 5 and SW 6) from the floor and sidewalls of the excavated area. 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 were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples FL11, FL12, FL13 and WW 5, which exhibited chloride concentration of 667 mg/kg, 642 mg/kg, 897 mg/kg and 640 mg/kg, respectively.

Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in the areas characterized by soil samples FL11, FL12, FL13 and WW 5 was excavated.

On May 14, 2020, Etech collected four (4) excavation confirmation soil samples (FL#11B @ 3', FL#12B @ 3', WW #5B and FL#13B @ 4',) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of chloride concentrations, which were determined to be below the 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 in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 85 Ft. in length, 12 to 40 Ft in width and ranged from 1 to 4 Ft. in depth. During the course of remediation activities approximately 480 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 Endeavor Energy Resources, LP provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Conoco #4 Site.

7.0 DEFERRAL REQUESTS

Impacted soil affected above the NMOCD Closure Criteria present within the cellar margins adjacent to the casing will be remediated in accordance with NMAC 19.15.29.12 and 19.15.29.13 once the location is no longer being used for oil and gas

8.0 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 Endeavor Energy Resources, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Endeavor Energy Resources, LP.

9.0 DISTRIBUTION

Endeavor Energy Resources, LP

110 N. Marienfeld St

Suite 200

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

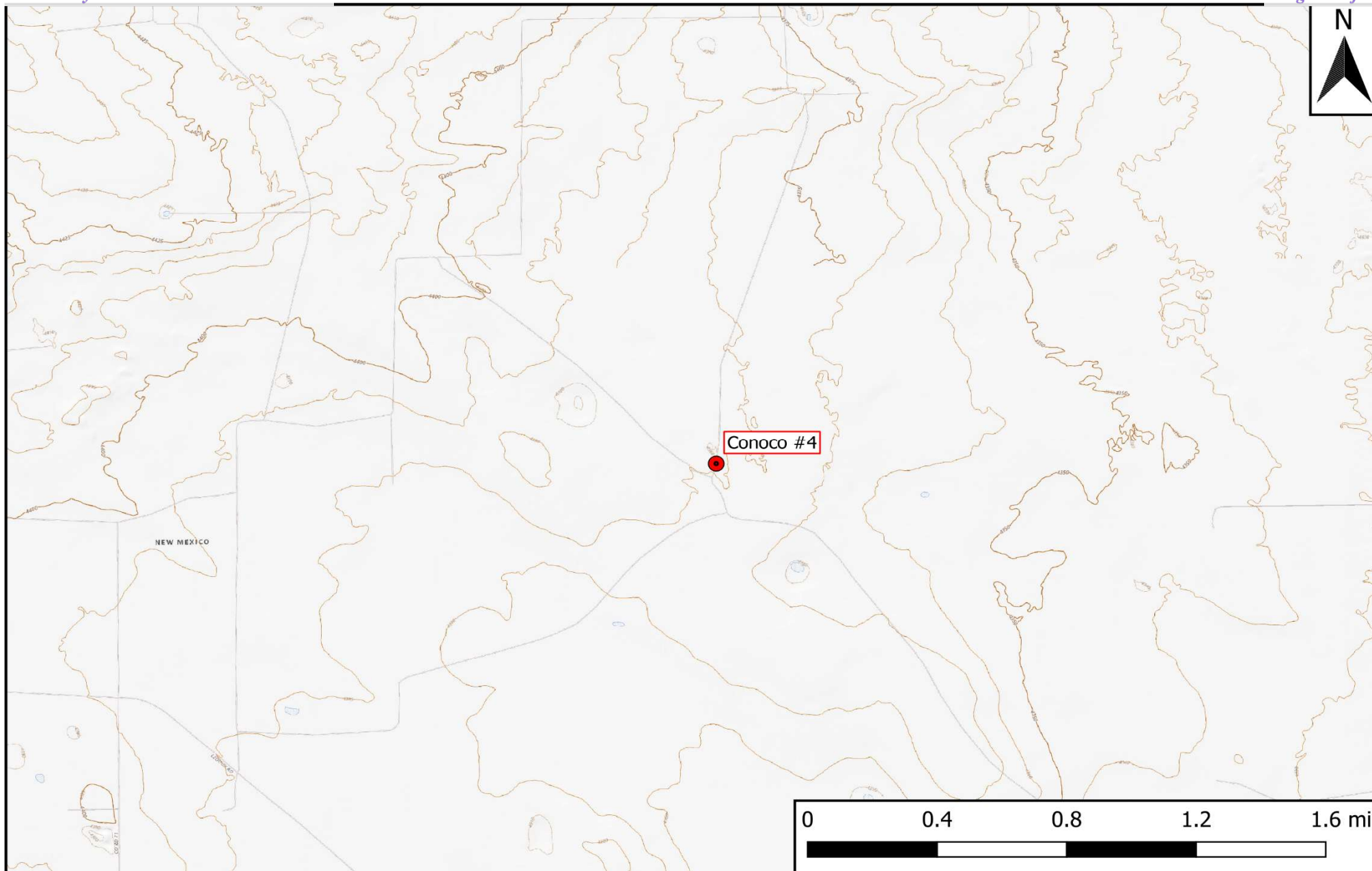
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1
Topographic Map
Endeavor Energy Resources, LP
Conoco #4
GPS: 33.61575, -103.55133
Chaves County



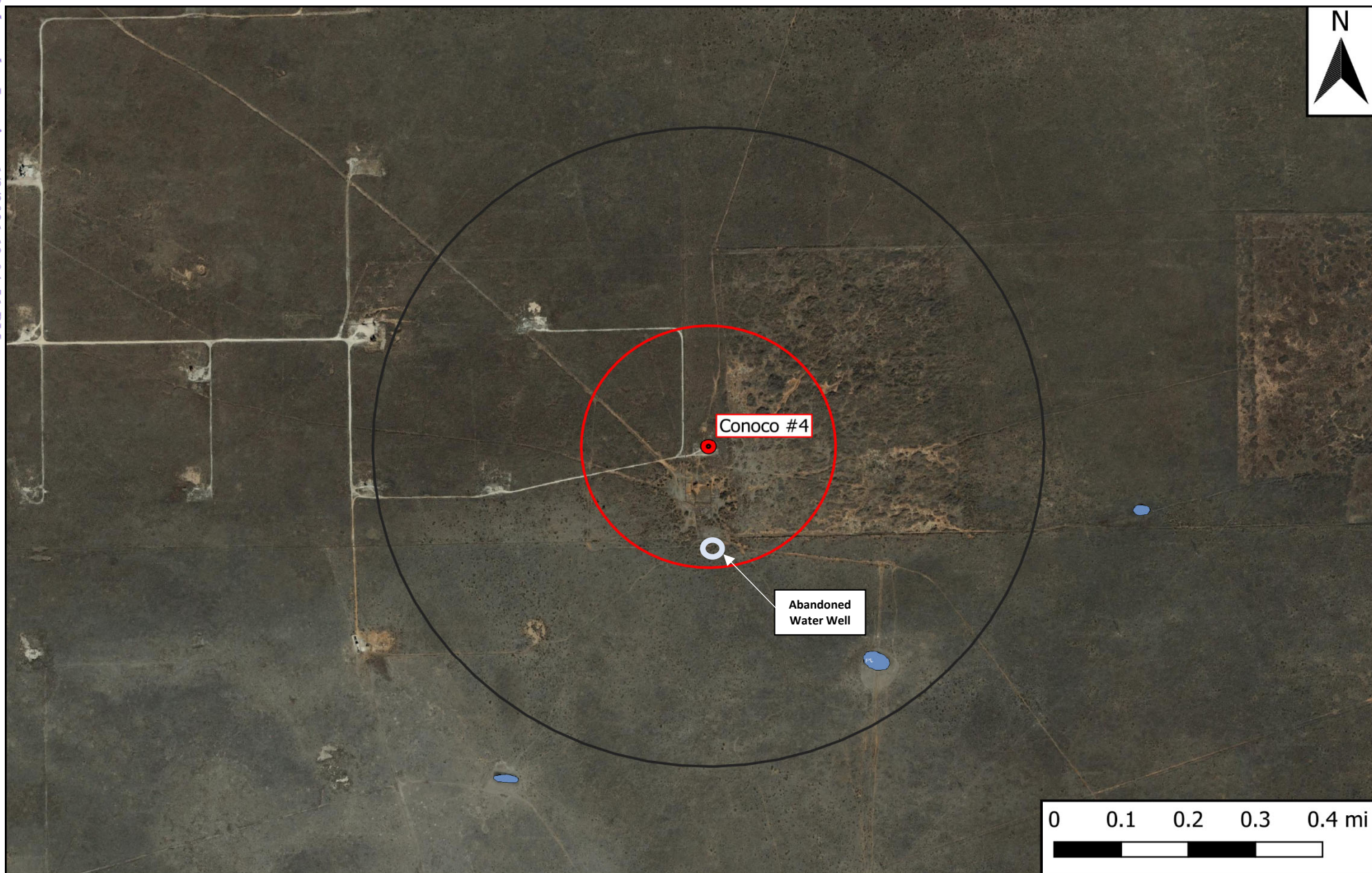
Drafted: mag

Checked: jwl

Date: 3/5/20

Figure 2

Aerial Proximity Map



- Legend
- Site Location
 - Well - USGS
 - Well - NMOSE
 - High Karst
 - Potash Mine Workings

- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2
Aerial Map
Endeavor Energy Resources, LP
Conoco #4
GPS: 33.61575, -103.55133
Chaves County



Drafted: mag Checked: jwl Date: 5/27/20

Figure 3

Site and Sample Location Map



Legend:

- Sample Point
- Affected Area
- Buried Pipeline
- - - Test Trench
- Excavated Area

Figure 3
 Site and Sample Location Map
 Endeavor Energy Resources, LP
 Conoco #4
 GPS: 33.61575, -103.55133
 Chaves County

eTECH

Environmental & Safety Solutions, Inc.

Drafted:

Checked: jwl

Date: 5/27/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Endeavor Energy Resources, LP
Conoco #4
NMOCD Ref. #: pending

NMOCD Closure Criteria				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 1 @ 4'	3/31/2020	4'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	149
FL 2 @ 4'	3/31/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	153
FL 3 @ 4'	3/31/2020	4'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	329
FL 4 @ 4'	3/31/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	8.52
FL 5 @ 4'	3/31/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	21.0
FL 6 @ 2'	3/31/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	17.8
FL 7 @ 2'	3/31/2020	2'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	12.1
FL 8 @ 2'	3/31/2020	2'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	41.1
FL 9 @ 4'	3/31/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	323
FL 10 @ 4'	3/31/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	307
NW1 - 4'	3/31/2020	NA	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	72.5
NW2 - 4'	3/31/2020	NA	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	24.3
NEW1 - 2'	3/31/2020	NA	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	10.2
SW1 - 2'	3/31/2020	NA	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	6.03
WW1 - 2'	3/31/2020	NA	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	24.2
FL 11	4/2/2020	2'	Excavated	<0.00199	0.00263	<50.0	<50.0	<50.0	<50.0	<50.0	667
FL 12	4/2/2020	2'	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	642
FL 13	4/2/2020	3'	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	897
FL 14	4/2/2020	2'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	297
FL 15	4/2/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	374
FL 16	4/2/2020	1'	In-Situ	<0.00198	0.00300	<49.9	<49.9	<49.9	<49.9	<49.9	27.9
FL 17	4/2/2020	1.5'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
FL 18	4/2/2020	1'	In-Situ	<0.00201	0.00421	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9
FL 19	4/2/2020	1'	In-Situ	<0.00199	0.00460	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
FL 20	4/2/2020	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9
FL 21	4/2/2020	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
FL 22	4/2/2020	1'	In-Situ	<0.00198	0.00280	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
FL 23	4/2/2020	1'	In-Situ	0.00238	0.00238	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9
FL 24	4/2/2020	1'	In-Situ	<0.00200	0.00423	<50.0	<50.0	<50.0	<50.0	<50.0	281
FL 25	4/2/2020	1'	In-Situ	<0.00202	0.00221	<50.0	<50.0	<50.0	<50.0	<50.0	226
EW 6	4/2/2020	NA	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	168
EW 7	4/2/2020	NA	In-Situ	<0.00200	0.00223	<50.0	<50.0	<50.0	<50.0	<50.0	8.60
WW 5	4/2/2020	NA	Excavated	<0.00198	0.00229	<50.0	<50.0	<50.0	<50.0	<50.0	640
SW 6	4/2/2020	NA	In-Situ	0.00238	0.0166	<49.9	<49.9	<49.9	<49.9	<49.9	207
SW 7	4/2/2020	NA	In-Situ	0.00324	0.0171	<50.0	<50.0	<50.0	<50.0	<50.0	56.1
FL#11B @ 3'	5/14/2020	NA	In-Situ	-	-	-	-	-	-	-	10.4
FL#12B @ 3'	5/14/2020	NA	In-Situ	-	-	-	-	-	-	-	215
WW #5B	5/14/2020	NA	In-Situ	-	-	-	-	-	-	-	59.5
FL#13B @ 3'	5/14/2020	NA	In-Situ	-	-	-	-	-	-	-	11.6

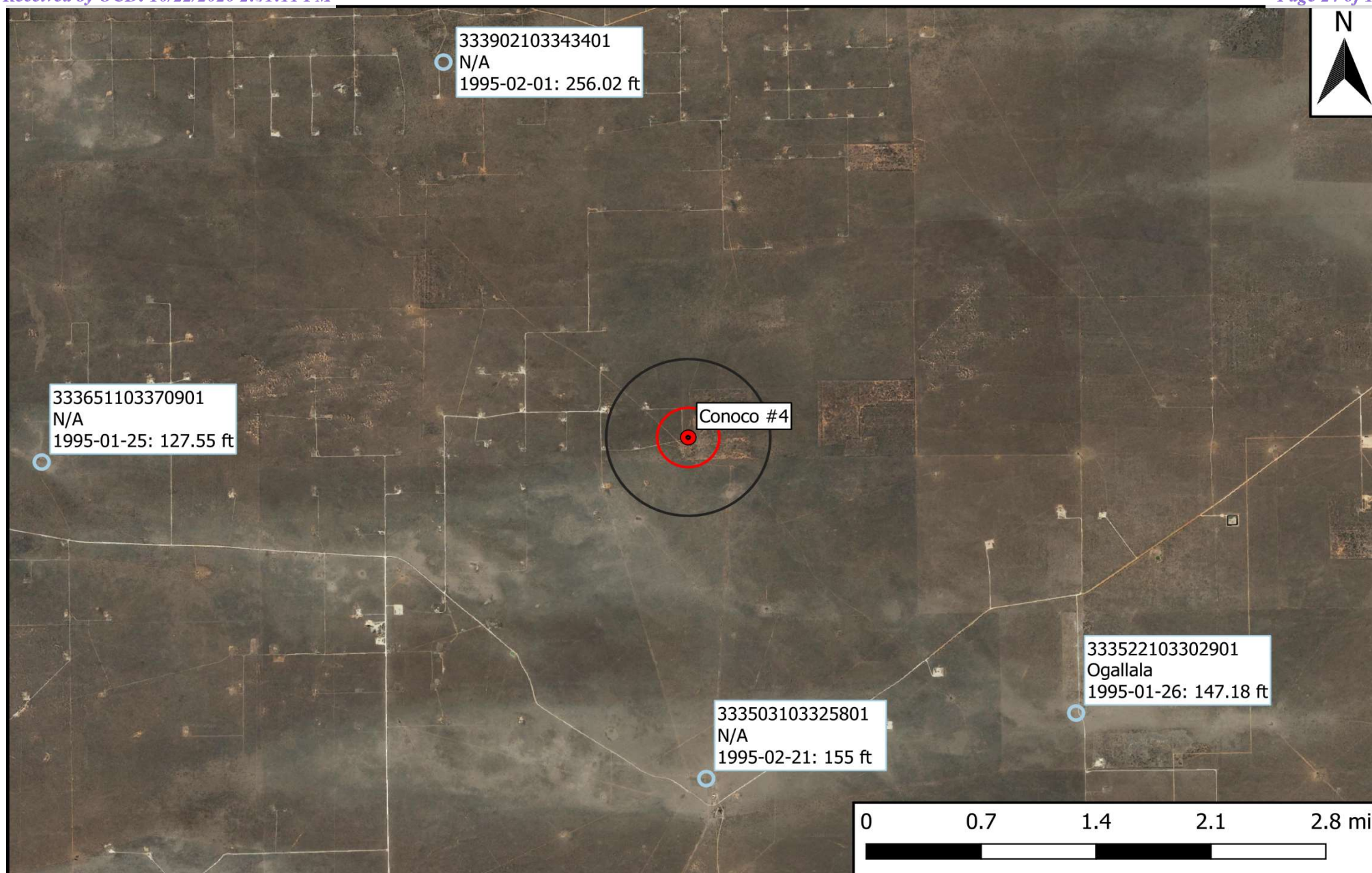
NOTES:

- = 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
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5

USGS Well Proximity Map
 Endeavor Energy Resources, LP
 Conoco #4
 GPS: 33.61575, -103.55133
 Chaves County



Drafted: mag

Checked: jwl

Date: 3/5/20



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

UTMNA83 Radius Search (in meters):

Easting (X): 634386.48 **Northing (Y):** 3720493.11 **Radius:** 804.67

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.

3/5/20 1:59 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
CL 00314 POD1		CL	CH	1	2	2	34	08S	33E	634611	3716897	3602	220	157	63
L 14097 POD1		L	LE	1	3	3	06	20S	35E	638740	3718500	4788	61	0	61

Average Depth to Water: **78 feet**

Minimum Depth: **0 feet**

Maximum Depth: **157 feet**

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 634386.48

Northing (Y): 3720493.11

Radius: 4830

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3/5/20 2:00 PM

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
CL 00314	POD1	1	2	2	34	08S	33E	634611	3716897

x

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

Driller Name: TAYLOR, ROY A.

Drill Start Date: 04/18/2016

Drill Finish Date: 04/20/2016

Plug Date:

Log File Date: 04/29/2016

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 5.00

Depth Well: 220 feet

Depth Water: 157 feet

x

Water Bearing Stratifications:

Top	Bottom	Description
116	135	Sandstone/Gravel/Conglomerate
135	185	Sandstone/Gravel/Conglomerate
182	205	Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top	Bottom
160	220

x

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

3/5/20 2:00 PM

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
L 14097	POD1	1	3	3	06	20S	35E	638740	3718500

x

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

Driller Name: EADES, ALAN

Drill Start Date: 05/25/2016

Drill Finish Date: 05/25/2016

Plug Date:

Log File Date: 06/02/2016

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 5.13

Depth Well: 61 feet

Depth Water: 0 feet

x

Water Bearing Stratifications:

Top	Bottom	Description
25	61	Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top	Bottom
21	61

x

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

3/5/20 2:00 PM

POINT OF DIVERSION SUMMARY



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 333503103325801

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

USGS 333503103325801 08S.33E.34.212211

Available data for this site

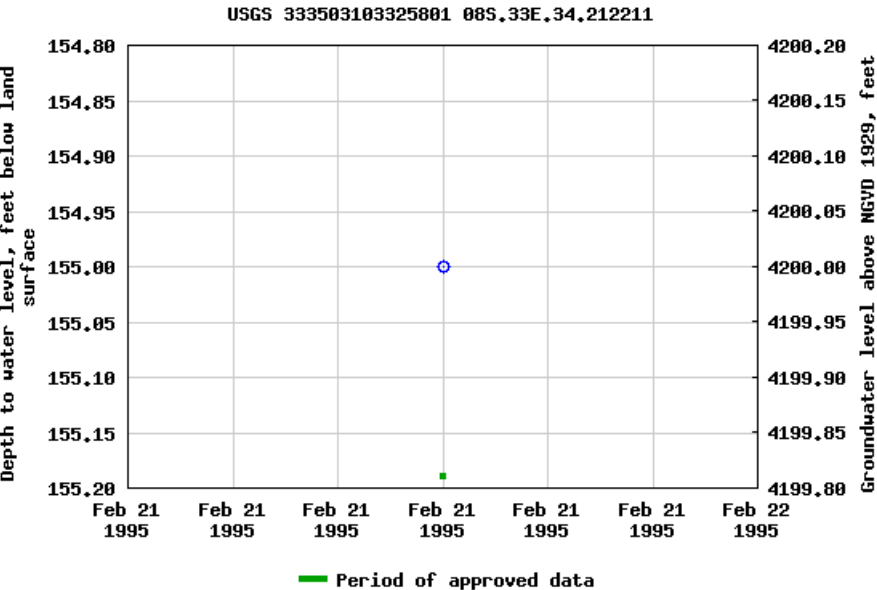
Groundwater: Field measurements

GO

Chaves County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°35'03", Longitude 103°32'58" NAD27
Land-surface elevation 4,355 feet above NGVD29
The depth of the well is 180 feet below land surface.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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Page Last Modified: 2020-03-05 15:53:40 EST

0.63 0.56 nadww02



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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- 333522103302901

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USGS 333522103302901 08S.33E.25.42422

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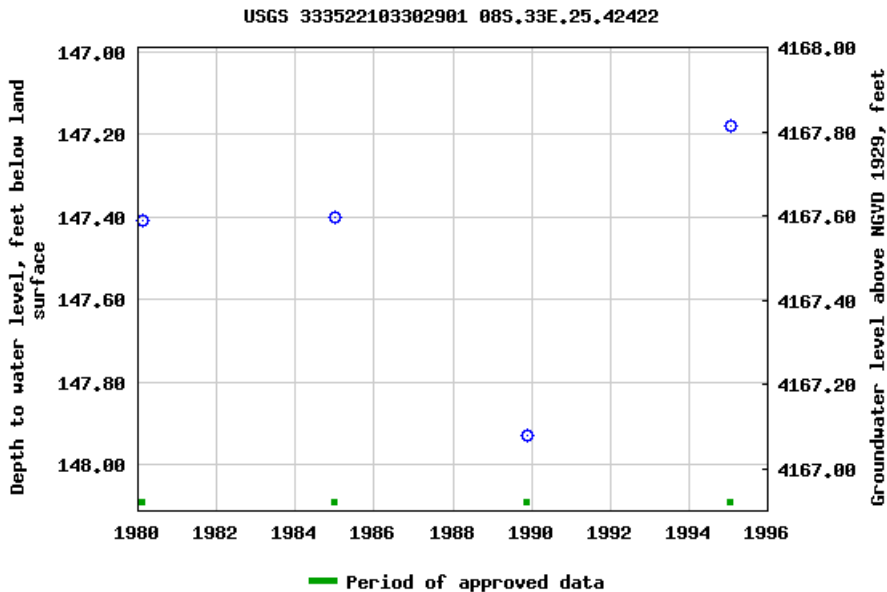
Groundwater: Field measurements

GO

Roosevelt County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°35'23", Longitude 103°30'37" NAD27
Land-surface elevation 4,315.00 feet above NGVD29
The depth of the well is 151 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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Tab-separated data
Graph of data
Reselect period



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USGS Water Resources

Data Category:
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Geographic Area:
United States

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• 333651103370901

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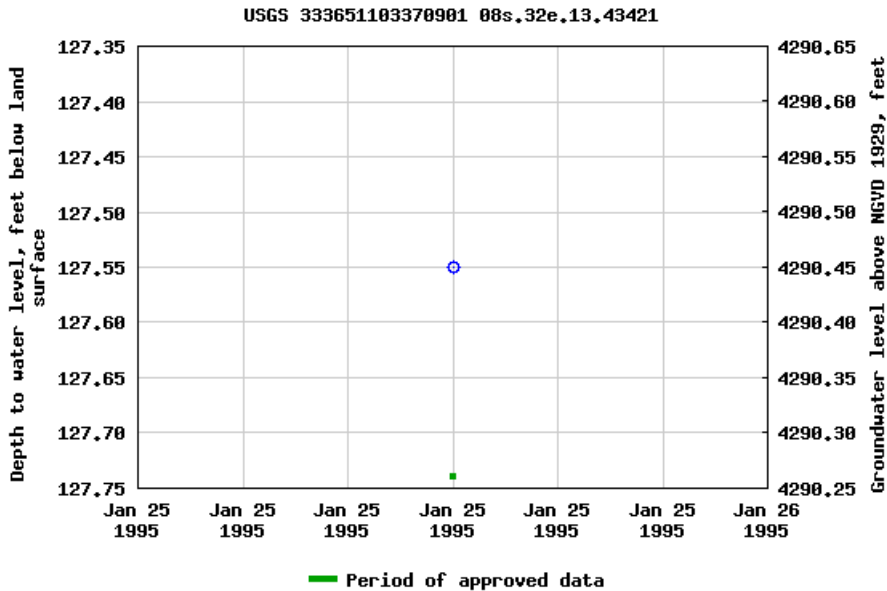
USGS 333651103370901 08s.32e.13.43421

Available data for this site Groundwater: Field measurements GO

Chaves County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°36'51", Longitude 103°37'09" NAD27
Land-surface elevation 4,418 feet above NGVD29
The depth of the hole is 180.00 feet below land surface.

Output formats

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



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Groundwater

Geographic Area:
United States

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- 333902103343401

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USGS 333902103343401 08S.33E.04.114343

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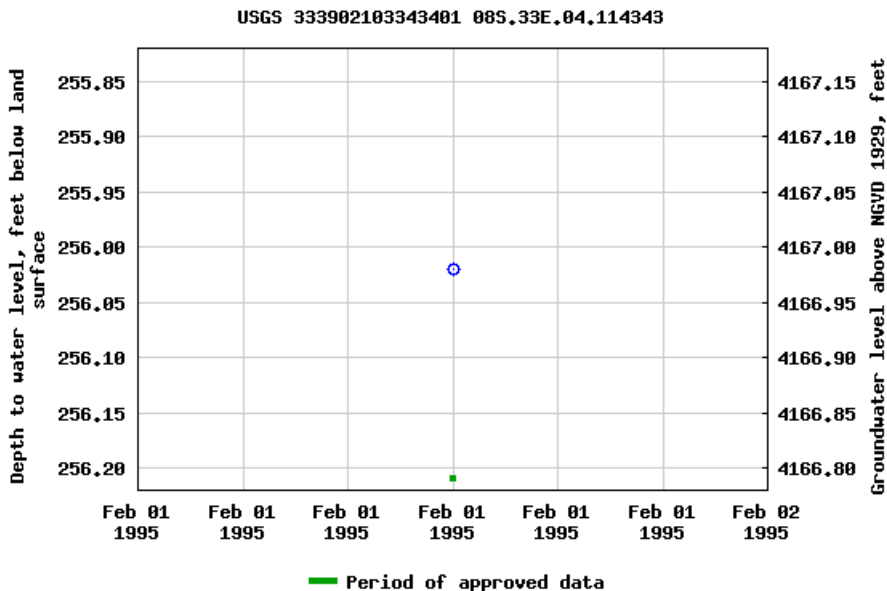
Groundwater: Field measurements

GO

Chaves County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°39'02", Longitude 103°34'34" NAD27
Land-surface elevation 4,423 feet above NGVD29
The depth of the well is 453 feet below land surface.

Output formats

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



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Appendix B

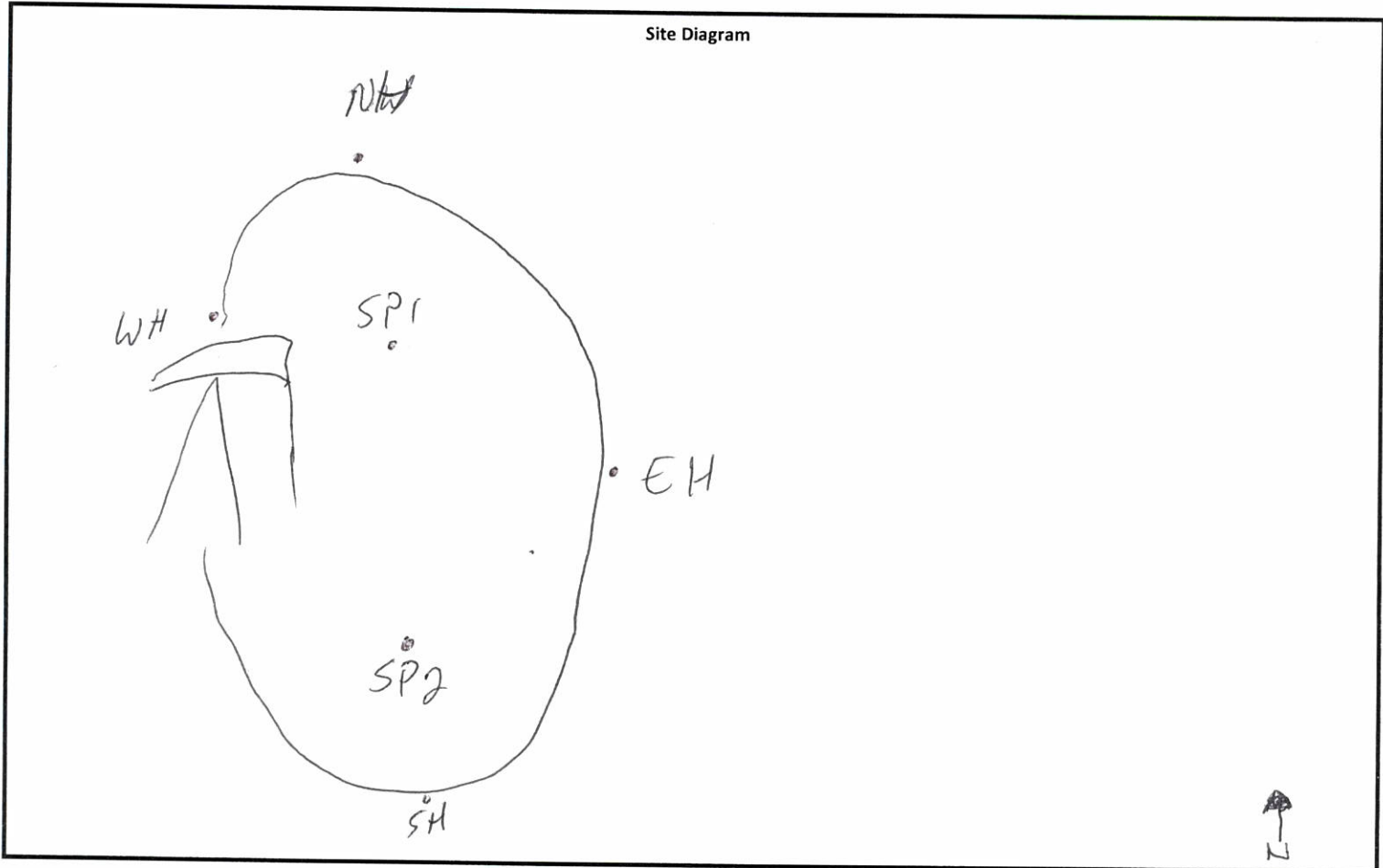
Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: Conoco #4 Date: 3.6.20
 Project Number: 12091 Clean Up Level: _____
 Latitude: 33.61575 Longitude: -103.55133

Site Diagram



Notes:

Conduct initial Release Assessment
 Delineate Site

~Length: 76 ~Width: 40 ~Area: 2,000 ~Depth: 1-4'

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

Yes No

☒ ☐

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: 3.6.20

Project: Conoco #4

Project Number: 12091 Latitude: 33.61575 Longitude: -103.55133

Depth (ft. bgs)

Description

1		Red sand w/ clay
2		Caliche - soft
3		
4		
5	TD	
6		
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39		
40		

Sample Log

Date: 3.6.20

Project: CONOCO #4

Project Number: 12091

Latitude: 33.61575

Longitude: -103.55733

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

- Not going to Lab

Appendix C

Laboratory Analytical Reports

Analytical Report 655105

for
Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Conco #4

12091

18-MAR-20

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



18-MAR-20

Project Manager: **Joel Lowry**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: XENCO Report No(s): **655105**
Conco #4
Project Address: Rural Chavez

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 655105. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 655105 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH @ Surf	S	03-06-20 00:00		655105-001
NH @ 1'	S	03-06-20 00:00	1 ft	655105-002
EH @ Surf	S	03-06-20 00:00		655105-003
EH @ 1'	S	03-06-20 00:00	1 ft	655105-004
SH @ Surf	S	03-06-20 00:00		655105-005
SH @ 1'	S	03-06-20 00:00	1 ft	655105-006
WH @ Surf	S	03-06-20 00:00		655105-007
WH @ 1'	S	03-06-20 00:00	1 ft	655105-008
SP1 @ Surf	S	03-06-20 00:00		655105-009
SP1 @ 2'	S	03-06-20 00:00	2 ft	655105-010
SP2 @ Surf	S	03-06-20 00:00		655105-011
SP2 @ 4'-R	S	03-06-20 00:00	4 ft	655105-012



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Conco #4

Project ID: 12091
Work Order Number(s): 655105

Report Date: 18-MAR-20
Date Received: 03/10/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3120029 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 655105-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 655105-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.

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



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: NH @ Surf

Matrix: Soil

Sample Depth:

Lab Sample Id: 655105-001

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	38.8	5.04	0.865	mg/kg	03.10.20 22:53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	03.10.20 16:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	03.10.20 16:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	03.10.20 16:35	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	03.10.20 16:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000386	mg/kg	03.17.20 13:28	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000457	mg/kg	03.17.20 13:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000566	mg/kg	03.17.20 13:28	UX	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	0.00102	mg/kg	03.17.20 13:28	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000345	mg/kg	03.17.20 13:28	U	1
Total Xylenes	1330-20-7	<0.00200		0.000345	mg/kg	03.17.20 13:28	U	
Total BTEX		<0.00200		0.000345	mg/kg	03.17.20 13:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	111	70 - 130	%		
4-Bromofluorobenzene	74	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: NH @ 1'

Matrix: Soil

Sample Depth: 1 ft

Lab Sample Id: 655105-002

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	53.1	5.00	0.858	mg/kg	03.10.20 22:58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.11.20 07:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	235	50.0	15.0	mg/kg	03.11.20 07:30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	140	50.0	15.0	mg/kg	03.11.20 07:30		1
Total TPH	PHC635	375		15.0	mg/kg	03.11.20 07:30		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000385	mg/kg	03.17.20 13:48	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	03.17.20 13:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	03.17.20 13:48	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	03.17.20 13:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	03.17.20 13:48	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	03.17.20 13:48	U	
Total BTEX		<0.00200		0.000344	mg/kg	03.17.20 13:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	114	70 - 130	%		
4-Bromofluorobenzene	85	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: EH @ Surf

Matrix: Soil

Sample Depth:

Lab Sample Id: 655105-003

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	19.2	4.97	0.853	mg/kg	03.10.20 23:14		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.10.20 17:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	03.10.20 17:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	03.10.20 17:38	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	03.10.20 17:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	03.17.20 14:09	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000455	mg/kg	03.17.20 14:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000564	mg/kg	03.17.20 14:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.00101	mg/kg	03.17.20 14:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	03.17.20 14:09	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	03.17.20 14:09	U	
Total BTEX		<0.00200		0.000344	mg/kg	03.17.20 14:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	116	70 - 130	%		
4-Bromofluorobenzene	82	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: EH @ 1' Matrix: Soil Sample Depth: 1 ft
 Lab Sample Id: 655105-004 Date Collected: 03.06.20 00.00 Date Received: 03.10.20 11.10
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3119159 Date Prep: 03.10.20 13.15
 Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	9.98	4.99	0.857	mg/kg	03.10.20 23:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015
 Analyst: ARM % Moist: Tech: DVM
 Seq Number: 3119220 Date Prep: 03.10.20 13.00
 Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.10.20 17:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	03.10.20 17:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	03.10.20 17:59	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	03.10.20 17:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: KTL % Moist: Tech: KTL
 Seq Number: 3120029 Date Prep: 03.17.20 10.00
 Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00202	0.00202	0.000388	mg/kg	03.17.20 14:29	U	1
Toluene	108-88-3	<0.00202	0.00202	0.000459	mg/kg	03.17.20 14:29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	0.000569	mg/kg	03.17.20 14:29	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	0.00102	mg/kg	03.17.20 14:29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	0.000347	mg/kg	03.17.20 14:29	U	1
Total Xylenes	1330-20-7	<0.00202		0.000347	mg/kg	03.17.20 14:29	U	
Total BTEX		<0.00202		0.000347	mg/kg	03.17.20 14:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	114	70 - 130	%		
4-Bromofluorobenzene	84	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: SH @ Surf

Matrix: Soil

Sample Depth:

Lab Sample Id: 655105-005

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	15.6	4.96	0.852	mg/kg	03.10.20 23:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	03.10.20 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	03.10.20 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	03.10.20 18:20	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	03.10.20 18:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	03.17.20 14:49	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000455	mg/kg	03.17.20 14:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000564	mg/kg	03.17.20 14:49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.00101	mg/kg	03.17.20 14:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	03.17.20 14:49	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	03.17.20 14:49	U	
Total BTEX		<0.00200		0.000344	mg/kg	03.17.20 14:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	114	70 - 130	%		
4-Bromofluorobenzene	87	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: SH @ 1' Matrix: Soil Sample Depth: 1 ft
 Lab Sample Id: 655105-006 Date Collected: 03.06.20 00.00 Date Received: 03.10.20 11.10
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3119159 Date Prep: 03.10.20 13.15
 Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	39.1	5.05	0.867	mg/kg	03.10.20 23:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015
 Analyst: ARM % Moist: Tech: DVM
 Seq Number: 3119220 Date Prep: 03.10.20 13.00
 Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	03.10.20 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	03.10.20 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	03.10.20 18:41	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	03.10.20 18:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	90	70 - 135	%		
o-Terphenyl	96	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: KTL % Moist: Tech: KTL
 Seq Number: 3120029 Date Prep: 03.17.20 10.00
 Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	03.17.20 15:09	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000455	mg/kg	03.17.20 15:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000564	mg/kg	03.17.20 15:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.00101	mg/kg	03.17.20 15:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	03.17.20 15:09	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	03.17.20 15:09	U	
Total BTEX		<0.00200		0.000344	mg/kg	03.17.20 15:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	118	70 - 130	%		
4-Bromofluorobenzene	87	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: WH @ Surf

Matrix: Soil

Sample Depth:

Lab Sample Id: 655105-007

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	14.2	4.98	0.855	mg/kg	03.10.20 23:46		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.10.20 19:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	03.10.20 19:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	03.10.20 19:02	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	03.10.20 19:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000386	mg/kg	03.17.20 15:29	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000457	mg/kg	03.17.20 15:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000566	mg/kg	03.17.20 15:29	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	0.00102	mg/kg	03.17.20 15:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000345	mg/kg	03.17.20 15:29	U	1
Total Xylenes	1330-20-7	<0.00200		0.000345	mg/kg	03.17.20 15:29	U	
Total BTEX		<0.00200		0.000345	mg/kg	03.17.20 15:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	113	70 - 130	%		
4-Bromofluorobenzene	85	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: WH @ 1' Matrix: Soil Sample Depth: 1 ft
 Lab Sample Id: 655105-008 Date Collected: 03.06.20 00.00 Date Received: 03.10.20 11.10
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3119159 Date Prep: 03.10.20 13.15
 Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	12.4	5.00	0.858	mg/kg	03.10.20 23:51		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015
 Analyst: ARM % Moist: Tech: DVM
 Seq Number: 3119220 Date Prep: 03.10.20 13.00
 Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.10.20 19:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	03.10.20 19:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	03.10.20 19:23	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	03.10.20 19:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	100	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: KTL % Moist: Tech: KTL
 Seq Number: 3120029 Date Prep: 03.17.20 10.00
 Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000387	mg/kg	03.17.20 15:49	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000458	mg/kg	03.17.20 15:49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000568	mg/kg	03.17.20 15:49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	03.17.20 15:49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	03.17.20 15:49	U	1
Total Xylenes	1330-20-7	<0.00201		0.000346	mg/kg	03.17.20 15:49	U	
Total BTEX		<0.00201		0.000346	mg/kg	03.17.20 15:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	114	70 - 130	%		
4-Bromofluorobenzene	85	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: SP1 @ Surf

Matrix: Soil

Sample Depth:

Lab Sample Id: 655105-009

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	4390	25.2	4.33	mg/kg	03.10.20 23:56		5

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	50.9	50.0	15.0	mg/kg	03.11.20 07:50		1
Diesel Range Organics (DRO)	C10C28DRO	1880	50.0	15.0	mg/kg	03.11.20 07:50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	289	50.0	15.0	mg/kg	03.11.20 07:50		1
Total TPH	PHC635	2220		15.0	mg/kg	03.11.20 07:50		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	104	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	03.17.20 16:09	U	1
Toluene	108-88-3	0.0254	0.00200	0.000455	mg/kg	03.17.20 16:09		1
Ethylbenzene	100-41-4	0.0340	0.00200	0.000564	mg/kg	03.17.20 16:09		1
m,p-Xylenes	179601-23-1	0.0297	0.00399	0.00101	mg/kg	03.17.20 16:09		1
o-Xylene	95-47-6	0.0522	0.00200	0.000344	mg/kg	03.17.20 16:09		1
Total Xylenes	1330-20-7	0.0819		0.000344	mg/kg	03.17.20 16:09		
Total BTEX		0.141		0.000344	mg/kg	03.17.20 16:09		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	70 - 130	%		
4-Bromofluorobenzene	107	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: SP1 @ 2' Matrix: Soil Sample Depth: 2 ft
 Lab Sample Id: 655105-010 Date Collected: 03.06.20 00.00 Date Received: 03.10.20 11.10
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Analyst: CHE % Moist: Tech: CHE
 Seq Number: 3119159 Date Prep: 03.10.20 13.15
 Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	247	5.00	0.858	mg/kg	03.11.20 00:02		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015
 Analyst: ARM % Moist: Tech: DVM
 Seq Number: 3119220 Date Prep: 03.10.20 13.00
 Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.10.20 20:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	03.10.20 20:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	03.10.20 20:05	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	03.10.20 20:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	99	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
 Analyst: KTL % Moist: Tech: KTL
 Seq Number: 3120029 Date Prep: 03.17.20 10.00
 Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00198	0.00198	0.000382	mg/kg	03.17.20 16:29	U	1
Toluene	108-88-3	<0.00198	0.00198	0.000452	mg/kg	03.17.20 16:29	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	0.000560	mg/kg	03.17.20 16:29	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	0.00101	mg/kg	03.17.20 16:29	U	1
o-Xylene	95-47-6	<0.00198	0.00198	0.000342	mg/kg	03.17.20 16:29	U	1
Total Xylenes	1330-20-7	<0.00198		0.000342	mg/kg	03.17.20 16:29	U	
Total BTEX		<0.00198		0.000342	mg/kg	03.17.20 16:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	117	70 - 130	%		
4-Bromofluorobenzene	110	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: SP2 @ Surf

Matrix: Soil

Sample Depth:

Lab Sample Id: 655105-011

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119159

Date Prep: 03.10.20 13.15

Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	248	5.05	0.867	mg/kg	03.11.20 00:07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	69.8	50.0	15.0	mg/kg	03.11.20 08:11		1
Diesel Range Organics (DRO)	C10C28DRO	5340	50.0	15.0	mg/kg	03.11.20 08:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	856	50.0	15.0	mg/kg	03.11.20 08:11		1
Total TPH	PHC635	6270		15.0	mg/kg	03.11.20 08:11		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	03.17.20 17:48	U	1
Toluene	108-88-3	0.00238	0.00200	0.000455	mg/kg	03.17.20 17:48		1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000564	mg/kg	03.17.20 17:48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.00101	mg/kg	03.17.20 17:48	U	1
o-Xylene	95-47-6	0.00893	0.00200	0.000344	mg/kg	03.17.20 17:48		1
Total Xylenes	1330-20-7	0.00893		0.000344	mg/kg	03.17.20 17:48		
Total BTEX		0.0113		0.000344	mg/kg	03.17.20 17:48		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	70 - 130	%		
4-Bromofluorobenzene	93	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #4

Sample Id: SP2 @ 4'-R

Matrix: Soil

Sample Depth: 4 ft

Lab Sample Id: 655105-012

Date Collected: 03.06.20 00.00

Date Received: 03.10.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: CHE

% Moist:

Tech: CHE

Seq Number: 3119162

Date Prep: 03.10.20 16.50

Prep seq: 7698520

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	602	5.00	0.858	mg/kg	03.10.20 22:54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst: ARM

% Moist:

Tech: DVM

Seq Number: 3119220

Date Prep: 03.10.20 13.00

Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	03.10.20 20:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	53.0	49.9	15.0	mg/kg	03.10.20 20:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	03.10.20 20:47	U	1
Total TPH	PHC635	53.0		15.0	mg/kg	03.10.20 20:47		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0257	0.00200	0.000385	mg/kg	03.17.20 18:08		1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	03.17.20 18:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	03.17.20 18:08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	03.17.20 18:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	03.17.20 18:08	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	03.17.20 18:08	U	
Total BTEX		0.0257		0.000344	mg/kg	03.17.20 18:08		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	117	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX
Conco #4

Sample Id: **7698475-1-BLK** Matrix: Solid Sample Depth:
Lab Sample Id: 7698475-1-BLK Date Collected: Date Received:
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3119159 Date Prep: 03.10.20 13.15
Prep seq: 7698475

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	03.10.20 21:29	U	1

Sample Id: **7698503-1-BLK** Matrix: Solid Sample Depth:
Lab Sample Id: 7698503-1-BLK Date Collected: Date Received:
Analytical Method: TPH By SW8015 Mod Prep Method: 8015
Analyst: ARM % Moist: Tech: DVM
Seq Number: 3119220 Date Prep: 03.10.20 13.00
Prep seq: 7698503

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	03.10.20 12:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	03.10.20 12:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	03.10.20 12:02	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	89	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Sample Id: **7698520-1-BLK** Matrix: Solid Sample Depth:
Lab Sample Id: 7698520-1-BLK Date Collected: Date Received:
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3119162 Date Prep: 03.10.20 16.50
Prep seq: 7698520

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	03.10.20 22:35	U	1



Certificate of Analytical Results

655105



Etech Environmental & Safety Solution, Inc, Midland, TX
Conco #4

Sample Id: **7699139-1-BLK**

Matrix: Solid

Sample Depth:

Lab Sample Id: 7699139-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: KTL

% Moist:

Tech: KTL

Seq Number: 3120029

Date Prep: 03.17.20 10.00

Prep seq: 7699139

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000385	mg/kg	03.17.20 13:08	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	03.17.20 13:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	03.17.20 13:08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	03.17.20 13:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	03.17.20 13:08	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	70 - 130	%		
4-Bromofluorobenzene	77	70 - 130	%		



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.

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

Form 2 - Surrogate Recoveries

Project Name: Conco #4

Work Orders : 655105,

Project ID: 12091

Lab Batch #: 3120029

Sample: 7699139-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/17/20 11:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0260	0.0300	87	70-130	

Lab Batch #: 3120029

Sample: 7699139-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/17/20 11:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0334	0.0300	111	70-130	
4-Bromofluorobenzene	0.0276	0.0300	92	70-130	

Lab Batch #: 3120029

Sample: 655105-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/17/20 11:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0248	0.0300	83	70-130	

Lab Batch #: 3120029

Sample: 655105-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/17/20 12:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	70-130	
4-Bromofluorobenzene	0.0275	0.0300	92	70-130	

Lab Batch #: 3120029

Sample: 7699139-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/17/20 13:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0232	0.0300	77	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Conco #4

Work Orders : 655105,

Project ID: 12091

Lab Batch #: 3119220

Sample: 7698503-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/10/20 12:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.7	100	89	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 3119220

Sample: 7698503-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/10/20 12:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.5	100	92	70-135	
o-Terphenyl	52.5	50.0	105	70-135	

Lab Batch #: 3119220

Sample: 7698503-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 03/10/20 12:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	100	89	70-135	
o-Terphenyl	47.9	50.0	96	70-135	

Lab Batch #: 3119220

Sample: 655102-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/10/20 13:26

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	99.8	94	70-135	
o-Terphenyl	48.7	49.9	98	70-135	

Lab Batch #: 3119220

Sample: 655102-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 03/10/20 13:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.7	108	70-135	
o-Terphenyl	49.1	49.9	98	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Conco #4

Work Order #: 655105

Project ID: 12091

Analyst: KTL

Date Prepared: 03/17/2020

Date Analyzed: 03/17/2020

Lab Batch ID: 3120029

Sample: 7699139-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000385	0.100	0.0912	91	0.100	0.0951	95	4	70-130	35	
Toluene	<0.000456	0.100	0.0912	91	0.100	0.0992	99	8	70-130	35	
Ethylbenzene	<0.000565	0.100	0.0873	87	0.100	0.0949	95	8	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.173	87	0.200	0.188	94	8	70-130	35	
o-Xylene	<0.000344	0.100	0.0890	89	0.100	0.0970	97	9	70-130	35	

Analyst: CHE

Date Prepared: 03/10/2020

Date Analyzed: 03/10/2020

Lab Batch ID: 3119159

Sample: 7698475-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	251	100	250	247	99	2	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Conco #4

Work Order #: 655105

Project ID: 12091

Analyst: CHE

Date Prepared: 03/10/2020

Date Analyzed: 03/10/2020

Lab Batch ID: 3119162

Sample: 7698520-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	259	104	250	259	104	0	90-110	20	

Analyst: ARM

Date Prepared: 03/10/2020

Date Analyzed: 03/10/2020

Lab Batch ID: 3119220

Sample: 7698503-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	967	97	1000	932	93	4	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	1110	111	1000	1050	105	6	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Conco #4

Work Order #: 655105

Project ID: 12091

Lab Batch ID: 3120029

QC- Sample ID: 655105-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/17/2020

Date Prepared: 03/17/2020

Analyst: KTL

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.000391	0.0996	0.0718	72	0.0992	0.0805	81	11	70-130	35	
Toluene	<0.000454	0.0996	0.0716	72	0.0992	0.0786	79	9	70-130	35	
Ethylbenzene	<0.000563	0.0996	0.0682	68	0.0992	0.0754	76	10	70-130	35	X
m,p-Xylenes	<0.00101	0.199	0.135	68	0.198	0.149	75	10	70-130	35	X
o-Xylene	<0.000343	0.0996	0.0707	71	0.0992	0.0790	80	11	70-130	35	

Lab Batch ID: 3119159

QC- Sample ID: 655091-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/10/2020

Date Prepared: 03/10/2020

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	286	249	521	94	249	518	93	1	90-110	20	

Lab Batch ID: 3119159

QC- Sample ID: 655105-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/10/2020

Date Prepared: 03/10/2020

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	53.1	250	308	102	250	314	104	2	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Conco #4

Work Order #: 655105

Project ID: 12091

Lab Batch ID: 3119162

QC- Sample ID: 655105-012 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/10/2020

Date Prepared: 03/10/2020

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	602	250	847	98	250	843	96	0	90-110	20	

Lab Batch ID: 3119162

QC- Sample ID: 655216-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/11/2020

Date Prepared: 03/10/2020

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	541	253	785	96	253	779	94	1	90-110	20	

Lab Batch ID: 3119220

QC- Sample ID: 655102-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 03/10/2020

Date Prepared: 03/10/2020

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	961	96	997	988	99	3	70-135	20	
Diesel Range Organics (DRO)	<15.0	998	1100	110	997	1140	114	4	70-135	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 912-0300, San Antonio, TX (210) 506-3334
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) 365-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (905) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 445-8800

Work Order No: 2206

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

Work Order Comments			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting Level: ☐ Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADAPT ☐ Other:			

Project Name:		Conoco #4		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		12091		Routine: ☐														HNO3: HN					
Project Location		Rural Chavez		Rush: ☐														H2SO4: H2					
Sampler's Name:		Miguel Ramirez		Due Date:														HCL: HL					
PO #:																		None: NO					
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐														NaOH: Na	
Temperature (°C):		40				Thermometer ID		29														MeOH: Me	
Received Intact:		Yes ☒ No ☐																				Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:		Yes No ☒ ☐		Correction Factor:				-0.3														TAT starts the day received by the lab, if received by 4:30pm	
Sample Custody Seals:		Yes No ☐ ☒		Total Containers:																		Sample Comments	
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Number of Containers/Preservative Code													
NH @ Surf		Soil		3/6/2020				Surf		1/NO X X X X													
NH @ 1'		Soil		3/6/2020				1'		1/NO X X X X													
EH @ Surf		Soil		3/6/2020				Surf		1/NO X X X X													
EH @ 1'		Soil		3/6/2020				1'		1/NO X X X X													
SH @ Surf		Soil		3/6/2020				Surf		1/NO X X X X													
SH @ 1'		Soil		3/6/2020				1'		1/NO X X X X													
WH @ Surf		Soil		3/6/2020				Surf		1/NO X X X X													
WH @ 1'		Soil		3/6/2020				1'		1/NO X X X X													
SP1 @ Surf		Soil		3/6/2020				Surf		1/NO X X X X													
SP1 @ 2'		Soil		3/6/2020				2'		1/NO X X X X													

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencio, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencio 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 Xencio. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencio, 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>[Signature]</i>	<i>[Signature]</i>	3/9/20 - 15:40	2 <i>[Signature]</i>	<i>[Signature]</i>	3/9/20 15:40
3			4		
5			6		3/10



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:

1055105

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

www.xenco.com Page ____ of ____	
Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Conoco #4		Turn Around		
Project Number:	12091	Routine:	☐		
Project Location:	Rural Chavez	Rush:	☐		
Sampler's Name:	Miguel Ramirez	Due Date:			
PO #:					
SAMPLE RECEIPT					
Temperature (°C):	40	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☒ No ☐
Received Inact:	Yes ☒ No ☐	Thermometer ID	129		
Cooler Custody Seals:	Yes ☐ No ☒	Correction Factor:	-0.3		
Sample Custody Seals:	Yes ☐ No ☒	Total Containers:			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	
SP2 @ Surf	Soil	3/6/2020		Surf	
SP2 @ 4' - R	Soil	3/6/2020		4'	
Number of Containers/Preservative Code					
BTX (SW 846 8021B)					
TPH (SW 846 8015M Ext.)					
CI- (4500 CI)					
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:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed																															
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U																															
1631 / 245.1 / 7470 / 7471 : Hg																															

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40
3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40
3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40
3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40	3/7/20 15:40

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 03.10.2020 11.10.00 AM

Work Order #: 655105

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	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: 03.10.2020

Checklist reviewed by:



Jessica Kramer

Date: 03.10.2020



Certificate of Analysis Summary 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #4

Project Id: 12091
Contact: Joel Lowry
Project Location:

Date Received in Lab: Fri 04.03.2020 10:55
Report Date: 04.06.2020 15:59
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	657813-001	657813-002	657813-003	657813-004	657813-005	657813-006
	<i>Field Id:</i>	FL 1 @ 4	FL 2 @ 4	FL 3 @ 4	FL 4 @ 4	FL 5 @ 4	FL 6 @ 4
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	03.31.2020 07:00	03.31.2020 07:30	03.31.2020 08:00	03.31.2020 08:30	03.31.2020 09:00	03.31.2020 09:30
BTEX by EPA 8021B	<i>Extracted:</i>	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00
	<i>Analyzed:</i>	04.04.2020 10:46	04.04.2020 11:06	04.04.2020 11:26	04.04.2020 11:46	04.04.2020 12:07	04.04.2020 12:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00403 0.00403	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398	<0.00400 0.00400	<0.00402 0.00402
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50
	<i>Analyzed:</i>	04.03.2020 13:41	04.03.2020 13:48	04.03.2020 13:55	04.03.2020 14:02	04.03.2020 14:23	04.03.2020 14:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		149 49.8	153 50.1	329 4.95	8.52 5.05	21.0 4.96	17.8 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00
	<i>Analyzed:</i>	04.05.2020 22:43	04.05.2020 23:48	04.06.2020 00:10	04.06.2020 00:32	04.06.2020 00:54	04.06.2020 01:16
	<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	<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

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #4

Project Id: 12091
Contact: Joel Lowry
Project Location:

Date Received in Lab: Fri 04.03.2020 10:55
Report Date: 04.06.2020 15:59
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	657813-007	657813-008	657813-009	657813-010	657813-011	657813-012
	<i>Field Id:</i>	FL 7 @ 2	FL 8 @ 2	FL 9 @ 4	FL 1 @ 4	NW1-4'	NW2-4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	03.31.2020 10:00	03.31.2020 10:30	03.31.2020 11:00	03.31.2020 11:20	03.31.2020 12:00	03.31.2020 12:30
BTEX by EPA 8021B	<i>Extracted:</i>	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00
	<i>Analyzed:</i>	04.04.2020 12:47	04.04.2020 13:07	04.04.2020 13:27	04.04.2020 14:46	04.04.2020 15:06	04.04.2020 15:26
	<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	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00403 0.00403	<0.00400 0.00400	<0.00399 0.00399	<0.00397 0.00397	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50
	<i>Analyzed:</i>	04.03.2020 14:36	04.03.2020 14:43	04.03.2020 14:50	04.03.2020 15:17	04.03.2020 14:57	04.03.2020 15:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.1 5.00	41.1 5.02	323 4.96	307 4.98	72.5 5.04	24.3 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00
	<i>Analyzed:</i>	04.06.2020 01:38	04.06.2020 02:00	04.06.2020 02:22	04.06.2020 02:44	04.06.2020 03:28	04.06.2020 03:50
	<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	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<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	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #4

Project Id: 12091
Contact: Joel Lowry
Project Location:

Date Received in Lab: Fri 04.03.2020 10:55
Report Date: 04.06.2020 15:59
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	657813-013	657813-014	657813-015			
	<i>Field Id:</i>	NEW1-2'	SW1-2'	WW1-2'			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	03.31.2020 13:00	03.31.2020 13:20	03.31.2020 14:00			
BTEX by EPA 8021B	<i>Extracted:</i>	04.03.2020 16:00	04.03.2020 16:00	04.03.2020 16:00			
	<i>Analyzed:</i>	04.04.2020 15:46	04.04.2020 16:07	04.04.2020 16:27			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198			
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198			
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198			
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397			
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198			
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198			
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198			
Chloride by EPA 300	<i>Extracted:</i>	04.03.2020 12:50	04.03.2020 12:50	04.03.2020 12:50			
	<i>Analyzed:</i>	04.03.2020 16:33	04.03.2020 16:39	04.03.2020 15:58			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		10.2 4.95	6.03 5.04	24.2 4.97			
TPH By SW8015 Mod	<i>Extracted:</i>	04.05.2020 12:00	04.05.2020 12:00	04.05.2020 12:00			
	<i>Analyzed:</i>	04.06.2020 04:12	04.06.2020 04:33	04.06.2020 04:55			
	<i>Units/RL:</i>	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			
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0			
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0			

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

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

Jessica Kramer
Project Manager



Analytical Report 657813

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Conoco #4

12091

04.06.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



04.06.2020

Project Manager: **Joel Lowry**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **657813**

Conoco #4

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 657813. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 657813 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

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 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL 1 @ 4	S	03.31.2020 07:00		657813-001
FL 2 @ 4	S	03.31.2020 07:30		657813-002
FL 3 @ 4	S	03.31.2020 08:00		657813-003
FL 4 @ 4	S	03.31.2020 08:30		657813-004
FL 5 @ 4	S	03.31.2020 09:00		657813-005
FL 6 @ 4	S	03.31.2020 09:30		657813-006
FL 7 @ 2	S	03.31.2020 10:00		657813-007
FL 8 @ 2	S	03.31.2020 10:30		657813-008
FL 9 @ 4	S	03.31.2020 11:00		657813-009
FL 1 @ 4	S	03.31.2020 11:20		657813-010
NW1-4'	S	03.31.2020 12:00		657813-011
NW2-4'	S	03.31.2020 12:30		657813-012
NEW1-2'	S	03.31.2020 13:00		657813-013
SW1-2'	S	03.31.2020 13:20		657813-014
WW1-2'	S	03.31.2020 14:00		657813-015



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Conoco #4

Project ID: 12091
Work Order Number(s): 657813

Report Date: 04.06.2020
Date Received: 04.03.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122039 TPH By SW8015 Mod

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

Samples affected are: 657813-014.

Batch: LBA-3122062 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 1 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-001

Date Collected: 03.31.2020 07:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	149	49.8	mg/kg	04.03.2020 13:41		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 22:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 22:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 22:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 22:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	04.05.2020 22:43	
o-Terphenyl	84-15-1	115	%	70-130	04.05.2020 22:43	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 1 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-001

Date Collected: 03.31.2020 07:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.04.2020 10:46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.04.2020 10:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.04.2020 10:46	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.04.2020 10:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.04.2020 10:46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.04.2020 10:46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.04.2020 10:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	04.04.2020 10:46		
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.04.2020 10:46		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 2 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-002

Date Collected: 03.31.2020 07:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	153	50.1	mg/kg	04.03.2020 13:48		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 23:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 23:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 23:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 23:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	04.05.2020 23:48	
o-Terphenyl	84-15-1	127	%	70-130	04.05.2020 23:48	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 2 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-002

Date Collected: 03.31.2020 07:30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 11:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 11:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 11:06	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.04.2020 11:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 11:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 11:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 11:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.04.2020 11:06		
4-Bromofluorobenzene	460-00-4	104	%	70-130	04.04.2020 11:06		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 3 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-003

Date Collected: 03.31.2020 08:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	329	4.95	mg/kg	04.03.2020 13:55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.06.2020 00:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.06.2020 00:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.06.2020 00:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.06.2020 00:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	04.06.2020 00:10	
o-Terphenyl	84-15-1	119	%	70-130	04.06.2020 00:10	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 3 @ 4**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-003

Date Collected: 03.31.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.04.2020 11:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.04.2020 11:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.04.2020 11:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.04.2020 11:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.04.2020 11:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.04.2020 11:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.04.2020 11:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	04.04.2020 11:26		
1,4-Difluorobenzene	540-36-3	98	%	70-130	04.04.2020 11:26		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 4 @ 4
Lab Sample Id: 657813-004

Matrix: Soil
Date Collected: 03.31.2020 08:30

Date Received: 04.03.2020 10:55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.52	5.05	mg/kg	04.03.2020 14:02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 00:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 00:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 00:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 00:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	04.06.2020 00:32	
o-Terphenyl	84-15-1	119	%	70-130	04.06.2020 00:32	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 4 @ 4**
Lab Sample Id: 657813-004

Matrix: Soil
Date Collected: 03.31.2020 08:30

Date Received: 04.03.2020 10:55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.04.2020 11:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.04.2020 11:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.04.2020 11:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.04.2020 11:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.04.2020 11:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.04.2020 11:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.04.2020 11:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.04.2020 11:46		
1,4-Difluorobenzene	540-36-3	99	%	70-130	04.04.2020 11:46		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 5 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-005

Date Collected: 03.31.2020 09:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.0	4.96	mg/kg	04.03.2020 14:23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 00:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 00:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 00:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 00:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	04.06.2020 00:54	
o-Terphenyl	84-15-1	120	%	70-130	04.06.2020 00:54	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 5 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-005

Date Collected: 03.31.2020 09:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 12:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 12:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 12:07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.04.2020 12:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 12:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 12:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 12:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.04.2020 12:07		
4-Bromofluorobenzene	460-00-4	101	%	70-130	04.04.2020 12:07		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 6 @ 4**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-006

Date Collected: 03.31.2020 09:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.8	5.00	mg/kg	04.03.2020 14:29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.06.2020 01:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.06.2020 01:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.06.2020 01:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.06.2020 01:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	04.06.2020 01:16	
o-Terphenyl	84-15-1	121	%	70-130	04.06.2020 01:16	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 6 @ 4**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-006

Date Collected: 03.31.2020 09:30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.04.2020 12:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.04.2020 12:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.04.2020 12:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.04.2020 12:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.04.2020 12:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.04.2020 12:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.04.2020 12:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	04.04.2020 12:27		
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.04.2020 12:27		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 7 @ 2

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-007

Date Collected: 03.31.2020 10:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.1	5.00	mg/kg	04.03.2020 14:36		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.06.2020 01:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.06.2020 01:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.06.2020 01:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.06.2020 01:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	04.06.2020 01:38	
o-Terphenyl	84-15-1	119	%	70-130	04.06.2020 01:38	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 7 @ 2

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-007

Date Collected: 03.31.2020 10:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 12:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 12:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 12:47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.04.2020 12:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 12:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 12:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 12:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	04.04.2020 12:47	
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.04.2020 12:47	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 8 @ 2**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-008

Date Collected: 03.31.2020 10:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	41.1	5.02	mg/kg	04.03.2020 14:43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.06.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.06.2020 02:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.06.2020 02:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.06.2020 02:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	04.06.2020 02:00	
o-Terphenyl	84-15-1	117	%	70-130	04.06.2020 02:00	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 8 @ 2**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-008

Date Collected: 03.31.2020 10:30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.04.2020 13:07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.04.2020 13:07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.04.2020 13:07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.04.2020 13:07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.04.2020 13:07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.04.2020 13:07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.04.2020 13:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	04.04.2020 13:07		
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.04.2020 13:07		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 9 @ 4**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-009

Date Collected: 03.31.2020 11:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	323	4.96	mg/kg	04.03.2020 14:50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 02:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 02:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 02:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 02:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	04.06.2020 02:22	
o-Terphenyl	84-15-1	117	%	70-130	04.06.2020 02:22	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 9 @ 4**

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-009

Date Collected: 03.31.2020 11:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 13:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 13:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 13:27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.04.2020 13:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 13:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 13:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 13:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	04.04.2020 13:27		
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.04.2020 13:27		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 1 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-010

Date Collected: 03.31.2020 11:20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	307	4.98	mg/kg	04.03.2020 15:17		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 02:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 02:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 02:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 02:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	04.06.2020 02:44	
o-Terphenyl	84-15-1	122	%	70-130	04.06.2020 02:44	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 1 @ 4

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-010

Date Collected: 03.31.2020 11:20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 14:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 14:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 14:46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.04.2020 14:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 14:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 14:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 14:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	70-130	04.04.2020 14:46		
1,4-Difluorobenzene	540-36-3	98	%	70-130	04.04.2020 14:46		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: NW1-4'
Lab Sample Id: 657813-011

Matrix: Soil
Date Collected: 03.31.2020 12:00

Date Received: 04.03.2020 10:55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.5	5.04	mg/kg	04.03.2020 14:57		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 03:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 03:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 03:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 03:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	04.06.2020 03:28	
o-Terphenyl	84-15-1	121	%	70-130	04.06.2020 03:28	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: NW1-4'
Lab Sample Id: 657813-011

Matrix: Soil
Date Collected: 03.31.2020 12:00

Date Received: 04.03.2020 10:55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.04.2020 15:06	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.04.2020 15:06	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.04.2020 15:06	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.04.2020 15:06	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.04.2020 15:06	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.04.2020 15:06	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.04.2020 15:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.04.2020 15:06		
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.04.2020 15:06		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: NW2-4'
Lab Sample Id: 657813-012

Matrix: Soil
Date Collected: 03.31.2020 12:30

Date Received: 04.03.2020 10:55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.3	4.99	mg/kg	04.03.2020 15:24		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 03:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 03:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 03:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 03:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	04.06.2020 03:50	
o-Terphenyl	84-15-1	117	%	70-130	04.06.2020 03:50	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: NW2-4'
Lab Sample Id: 657813-012

Matrix: Soil
Date Collected: 03.31.2020 12:30

Date Received: 04.03.2020 10:55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 15:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 15:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 15:26	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.04.2020 15:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 15:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 15:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 15:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	04.04.2020 15:26		
1,4-Difluorobenzene	540-36-3	99	%	70-130	04.04.2020 15:26		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: NEW1-2'

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-013

Date Collected: 03.31.2020 13:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.2	4.95	mg/kg	04.03.2020 16:33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.06.2020 04:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.06.2020 04:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.06.2020 04:12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.06.2020 04:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	04.06.2020 04:12	
o-Terphenyl	84-15-1	117	%	70-130	04.06.2020 04:12	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: NEW1-2'

Matrix: Soil

Date Received: 04.03.2020 10:55

Lab Sample Id: 657813-013

Date Collected: 03.31.2020 13:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.04.2020 15:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.04.2020 15:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.04.2020 15:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.04.2020 15:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.04.2020 15:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.04.2020 15:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.04.2020 15:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	04.04.2020 15:46		
4-Bromofluorobenzene	460-00-4	112	%	70-130	04.04.2020 15:46		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: SW1-2'
Lab Sample Id: 657813-014

Matrix: Soil
Date Collected: 03.31.2020 13:20

Date Received: 04.03.2020 10:55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.03	5.04	mg/kg	04.03.2020 16:39		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 04:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 04:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 04:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 04:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	68	%	70-130	04.06.2020 04:33	**
o-Terphenyl	84-15-1	72	%	70-130	04.06.2020 04:33	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: SW1-2'
Lab Sample Id: 657813-014

Matrix: Soil
Date Collected: 03.31.2020 13:20

Date Received: 04.03.2020 10:55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.04.2020 16:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.04.2020 16:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.04.2020 16:07	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.04.2020 16:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.04.2020 16:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.04.2020 16:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.04.2020 16:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.04.2020 16:07		
4-Bromofluorobenzene	460-00-4	98	%	70-130	04.04.2020 16:07		



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **WW1-2'**
Lab Sample Id: 657813-015

Matrix: Soil
Date Collected: 03.31.2020 14:00

Date Received: 04.03.2020 10:55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.2	4.97	mg/kg	04.03.2020 15:58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.05.2020 12:00

Basis: Wet Weight

Seq Number: 3122039

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.2020 04:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.2020 04:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.2020 04:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	04.06.2020 04:55	
o-Terphenyl	84-15-1	120	%	70-130	04.06.2020 04:55	



Certificate of Analytical Results 657813

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **WW1-2'**
Lab Sample Id: 657813-015

Matrix: Soil
Date Collected: 03.31.2020 14:00

Date Received: 04.03.2020 10:55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.03.2020 16:00

Basis: Wet Weight

Seq Number: 3122062

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.04.2020 16:27	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.04.2020 16:27	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.04.2020 16:27	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.04.2020 16:27	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.04.2020 16:27	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.04.2020 16:27	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.04.2020 16:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	04.04.2020 16:27	
1,4-Difluorobenzene	540-36-3	100	%	70-130	04.04.2020 16:27	



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

Conoco #4

Analytical Method: Chloride by EPA 300

Seq Number: 3121931

MB Sample Id: 7700473-1-BLK

Matrix: Solid

LCS Sample Id: 7700473-1-BKS

Prep Method: E300P

Date Prep: 04.03.2020

LCSD Sample Id: 7700473-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	04.03.2020 13:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3121931

Parent Sample Id: 657813-011

Matrix: Soil

MS Sample Id: 657813-011 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657813-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	72.5	252	336	105	337	105	90-110	0	20	mg/kg	04.03.2020 15:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3121931

Parent Sample Id: 657831-021

Matrix: Soil

MS Sample Id: 657831-021 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657831-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.2	252	327	107	325	106	90-110	1	20	mg/kg	04.03.2020 13:28	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3122039

MB Sample Id: 7700577-1-BLK

Matrix: Solid

LCS Sample Id: 7700577-1-BKS

Prep Method: SW8015P

Date Prep: 04.05.2020

LCSD Sample Id: 7700577-1-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	1160	116	1140	114	70-130	2	20	mg/kg	04.05.2020 21:59	
Diesel Range Organics (DRO)	<50.0	1000	1190	119	1190	119	70-130	0	20	mg/kg	04.05.2020 21:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		122		118		70-130	%	04.05.2020 21:59
o-Terphenyl	116		126		125		70-130	%	04.05.2020 21:59

Analytical Method: TPH By SW8015 Mod

Seq Number: 3122039

Matrix: Solid

MB Sample Id: 7700577-1-BLK

Prep Method: SW8015P

Date Prep: 04.05.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.05.2020 21:37	

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

Conoco #4

Analytical Method: TPH By SW8015 Mod

Seq Number: 3122039

Parent Sample Id: 657813-001

Matrix: Soil

MS Sample Id: 657813-001 S

Prep Method: SW8015P

Date Prep: 04.05.2020

MSD Sample Id: 657813-001 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	1120	112	1200	120	70-130	7	20	mg/kg	04.05.2020 23:04	
Diesel Range Organics (DRO)	<49.9	997	1210	121	1230	123	70-130	2	20	mg/kg	04.05.2020 23:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		128		70-130	%	04.05.2020 23:04
o-Terphenyl	120		117		70-130	%	04.05.2020 23:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3122062

MB Sample Id: 7700612-1-BLK

Matrix: Solid

LCS Sample Id: 7700612-1-BKS

Prep Method: SW5030B

Date Prep: 04.03.2020

LCSD Sample Id: 7700612-1-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	0.0984	98	0.0905	91	70-130	8	35	mg/kg	04.03.2020 23:14	
Toluene	<0.00200	0.100	0.0880	88	0.0825	83	70-130	6	35	mg/kg	04.03.2020 23:14	
Ethylbenzene	<0.00200	0.100	0.0856	86	0.0817	82	70-130	5	35	mg/kg	04.03.2020 23:14	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.176	88	70-130	4	35	mg/kg	04.03.2020 23:14	
o-Xylene	<0.00200	0.100	0.0956	96	0.0913	91	70-130	5	35	mg/kg	04.03.2020 23:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		98		70-130	%	04.03.2020 23:14
4-Bromofluorobenzene	91		112		111		70-130	%	04.03.2020 23:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3122062

Parent Sample Id: 657831-021

Matrix: Soil

MS Sample Id: 657831-021 S

Prep Method: SW5030B

Date Prep: 04.03.2020

MSD Sample Id: 657831-021 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	0.0922	92	0.0860	86	70-130	7	35	mg/kg	04.03.2020 23:54	
Toluene	<0.00200	0.0998	0.0806	81	0.0748	75	70-130	7	35	mg/kg	04.03.2020 23:54	
Ethylbenzene	<0.00200	0.0998	0.0642	64	0.0607	61	70-130	6	35	mg/kg	04.03.2020 23:54	X
m,p-Xylenes	<0.00399	0.200	0.157	79	0.150	75	70-130	5	35	mg/kg	04.03.2020 23:54	
o-Xylene	<0.00200	0.0998	0.0856	86	0.0814	82	70-130	5	35	mg/kg	04.03.2020 23:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		102		70-130	%	04.03.2020 23:54
4-Bromofluorobenzene	114		112		70-130	%	04.03.2020 23:54

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



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:

1057813

www.xenco.com Page of

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

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

Project Name:	CDRPP #4	Turn Around	
Project Number:	12091	Routine: ☐	
Project Location:	Hector Villa	Rush: ☐	
Sample's Name:		Due Date:	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes ☐	No ☒	Wet Ice:	Yes ☐	No ☒
	Temperature (°C):	10.5		Thermometer ID:	29	
Received Inact:	Yes ☐	No ☒	Correction Factor:			
Cooler Custody Seals:	Yes ☐	No ☒	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	Sample Comments
FL104		3/3/20	7:00		1						HNO3: HN	
FL204		3/3/20	7:30		1						H2SO4: H2	
FL304		3/3/20	8:00		1						HCL: HL	
FL404		3/3/20	8:30		1						None: NO	
FL504		3/3/20	9:00		1						NaOH: Na	
FL604		3/3/20	9:30		1						MeOH: Me	
FL704		3/3/20	10:00		1						Zn Acetate+ NaOH: Zn	
FL804		3/3/20	10:30		1							
FL904		4/1/20	11:00		1							
FL1004		4/1/20	11:30		1							

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)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Joel Lowry	Joel Lowry	4/4/20	Joel Lowry	Joel Lowry	4/3
					1055



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.

1057813

www.xenco.com Page of

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Etech Env
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

ANALYSIS REQUEST

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

Project Name:	10000-#4	Turn Around	
Project Number:	10091	Routine: ☐	
Project Location:		Rush: ☐	
Sampler's Name:	Hector Villa	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	ANALYSIS REQUEST	Preservative Codes	Sample Comments
-----------------------	--------	--------------	--------------	-------	--	---------------	-----------	------------------	------------	------------------	--------------------	-----------------

NW1-4'	S	3-31-20	12:00									
NW2-4'	S	3-31-20	12:30									
NW1-2'	S	3-31-20	1:00									
NW1-2'	S	3-31-20	1:20									
NW1-2'	S	3-31-20	2:00									

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

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

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.03.2020 10.55.00 AM

Work Order #: 657813

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#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: 04.03.2020

Checklist reviewed by:



Jessica Kramer

Date: 04.06.2020



Certificate of Analysis Summary 657952

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Id: 12091
Contact: Joel Lowry
Project Location:

Project Name: Conoco #4

Date Received in Lab: Mon Apr-06-20 11:35 am
Report Date: 07-APR-20
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	657952-001	657952-002	657952-003	657952-004	657952-005	657952-006
	<i>Field Id:</i>	FL 11	FL 12	FL 13	FL 14	FL 15	FL 16
	<i>Depth:</i>	2- ft	2- ft	3- ft	2- ft	1- ft	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Apr-02-20 08:00	Apr-02-20 08:30	Apr-02-20 09:00	Apr-02-20 09:30	Apr-02-20 10:00	Apr-02-20 10:30
BTEX by EPA 8021B	<i>Extracted:</i>	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00
	<i>Analyzed:</i>	Apr-06-20 20:21	Apr-06-20 20:41	Apr-06-20 21:02	Apr-06-20 21:22	Apr-06-20 21:42	Apr-06-20 22:03
	<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	<0.00200 0.00200	<0.00198 0.00198
Toluene		0.00263 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	0.00300 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00400 0.00400	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		0.00263 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	0.00300 0.00198
Chloride by EPA 300	<i>Extracted:</i>	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50
	<i>Analyzed:</i>	Apr-06-20 16:03	Apr-06-20 16:19	Apr-06-20 16:24	Apr-06-20 16:29	Apr-06-20 16:35	Apr-06-20 16:50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		667 X 5.00	642 4.96	897 4.99	297 5.02	374 4.97	27.9 4.95
TPH By SW8015 Mod	<i>Extracted:</i>	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00
	<i>Analyzed:</i>	Apr-06-20 21:49	Apr-06-20 22:53	Apr-06-20 23:15	Apr-06-20 23:37	Apr-06-20 23:58	Apr-07-20 00:20
	<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
Project Manager



Certificate of Analysis Summary 657952

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #4

Project Id: 12091
 Contact: Joel Lowry
 Project Location:

Date Received in Lab: Mon Apr-06-20 11:35 am
 Report Date: 07-APR-20
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	657952-007	657952-008	657952-009	657952-010	657952-011	657952-012
	Field Id:	FL 17	FL 18	FL 19	FL 20	FL 21	FL 22
	Depth:	1.5- ft	1- ft	1- ft	1- ft	1- ft	1- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-02-20 11:00	Apr-02-20 11:30	Apr-02-20 12:00	Apr-02-20 12:30	Apr-02-20 13:00	Apr-02-20 13:30
BTEX by EPA 8021B	Extracted:	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00
	Analyzed:	Apr-06-20 22:23	Apr-06-20 22:44	Apr-06-20 23:04	Apr-06-20 23:25	Apr-07-20 00:48	Apr-07-20 01:09
	Units/RL:	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	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Toluene		<0.00200 0.00200	0.00421 0.00201	0.00460 0.00199	<0.00200 0.00200	<0.00198 0.00198	0.00280 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
m,p-Xylenes		<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	0.00421 0.00201	0.00460 0.00199	<0.00200 0.00200	<0.00198 0.00198	0.00280 0.00198
Chloride by EPA 300	Extracted:	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50
	Analyzed:	Apr-06-20 16:56	Apr-06-20 17:01	Apr-06-20 17:06	Apr-06-20 17:12	Apr-06-20 17:17	Apr-06-20 17:33
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		41.2 4.95	15.4 4.95	70.1 5.03	283 4.98	120 5.05	11.0 5.04
TPH By SW8015 Mod	Extracted:	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00
	Analyzed:	Apr-07-20 00:41	Apr-07-20 01:03	Apr-07-20 01:25	Apr-07-20 01:46	Apr-07-20 02:30	Apr-07-20 02:51
	Units/RL:	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	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 657952

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #4

Project Id: 12091
 Contact: Joel Lowry
 Project Location:

Date Received in Lab: Mon Apr-06-20 11:35 am
 Report Date: 07-APR-20
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	657952-013	657952-014	657952-015	657952-016	657952-017	657952-018
	Field Id:	FL 23	FL 24	FL 25	EW 6	EW 7	WW 5
	Depth:	1- ft	1- ft	1- ft			
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-02-20 14:00	Apr-02-20 14:30	Apr-02-20 15:00	Apr-02-20 15:30	Apr-02-20 16:00	Apr-02-20 00:00
BTEX by EPA 8021B	Extracted:	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00	Apr-06-20 16:00
	Analyzed:	Apr-07-20 01:29	Apr-07-20 01:50	Apr-07-20 02:10	Apr-07-20 02:31	Apr-07-20 02:51	Apr-07-20 03:11
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00238 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00199 0.00199	0.00423 0.00200	0.00221 0.00202	<0.00200 0.00200	<0.00223 0.00200	0.00229 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00404 0.00404	<0.00399 0.00399	<0.00399 0.00399	<0.00396 0.00396
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		0.00238 0.00199	0.00423 0.00200	0.00221 0.00202	<0.00200 0.00200	0.00223 0.00200	0.00229 0.00198
Chloride by EPA 300	Extracted:	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50	Apr-06-20 12:50
	Analyzed:	Apr-06-20 17:38	Apr-06-20 17:54	Apr-06-20 17:59	Apr-06-20 18:04	Apr-06-20 18:09	Apr-06-20 18:15
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		79.1 4.97	281 4.99	226 4.98	168 5.01	8.60 4.96	640 4.95
TPH By SW8015 Mod	Extracted:	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00	Apr-06-20 14:00
	Analyzed:	Apr-07-20 03:13	Apr-07-20 03:34	Apr-07-20 03:56	Apr-07-20 04:18	Apr-07-20 04:40	Apr-07-20 05:02
	Units/RL:	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	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<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	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0

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Jessica Kramer
 Project Manager



Certificate of Analysis Summary 657952

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #4

Project Id: 12091
 Contact: Joel Lowry
 Project Location:

Date Received in Lab: Mon Apr-06-20 11:35 am
 Report Date: 07-APR-20
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	657952-019	657952-020				
	Field Id:	SW6	SW7				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Apr-02-20 00:00	Apr-02-20 00:00				
BTEX by EPA 8021B	Extracted:	Apr-06-20 16:00	Apr-06-20 16:00				
	Analyzed:	Apr-07-20 03:32	Apr-07-20 03:52				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		0.00238 0.00199	0.00324 0.00199				
Toluene		0.0142 0.00199	0.0139 0.00199				
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199				
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398				
o-Xylene		<0.00199 0.00199	<0.00199 0.00199				
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199				
Total BTEX		0.0166 0.00199	0.0171 0.00199				
Chloride by EPA 300	Extracted:	Apr-06-20 12:50	Apr-06-20 12:50				
	Analyzed:	Apr-06-20 18:20	Apr-06-20 18:25				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		207 5.00	56.1 4.95				
TPH By SW8015 Mod	Extracted:	Apr-06-20 14:00	Apr-06-20 14:00				
	Analyzed:	Apr-07-20 05:23	Apr-07-20 05:45				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0				
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0				
Total TPH		<49.9 49.9	<50.0 50.0				

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

Jessica Kramer
 Project Manager

Analytical Report 657952

for
Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Conoco #4

12091

07-APR-20

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



07-APR-20

Project Manager: **Joel Lowry**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: XENCO Report No(s): **657952**
Conoco #4
Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 657952. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 657952 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 657952

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL 11	S	04-02-20 08:00	2 ft	657952-001
FL 12	S	04-02-20 08:30	2 ft	657952-002
FL 13	S	04-02-20 09:00	3 ft	657952-003
FL 14	S	04-02-20 09:30	2 ft	657952-004
FL 15	S	04-02-20 10:00	1 ft	657952-005
FL 16	S	04-02-20 10:30	1 ft	657952-006
FL 17	S	04-02-20 11:00	1.5 ft	657952-007
FL 18	S	04-02-20 11:30	1 ft	657952-008
FL 19	S	04-02-20 12:00	1 ft	657952-009
FL 20	S	04-02-20 12:30	1 ft	657952-010
FL 21	S	04-02-20 13:00	1 ft	657952-011
FL 22	S	04-02-20 13:30	1 ft	657952-012
FL 23	S	04-02-20 14:00	1 ft	657952-013
FL 24	S	04-02-20 14:30	1 ft	657952-014
FL 25	S	04-02-20 15:00	1 ft	657952-015
EW 6	S	04-02-20 15:30		657952-016
EW 7	S	04-02-20 16:00		657952-017
WW 5	S	04-02-20 00:00		657952-018
SW6	S	04-02-20 00:00		657952-019
SW7	S	04-02-20 00:00		657952-020



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Conoco #4

Project ID: 12091
Work Order Number(s): 657952

Report Date: 07-APR-20
Date Received: 04/06/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122132 Chloride by EPA 300

Lab Sample ID 657952-011 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: 657952-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

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

Batch: LBA-3122148 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 657952-019.



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 11**
 Lab Sample Id: 657952-001

Matrix: Soil
 Date Collected: 04.02.20 08.00

Date Received: 04.06.20 11.35
 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	667	5.00	mg/kg	04.06.20 16.03	X	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.20 21.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.20 21.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.20 21.49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.20 21.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	04.06.20 21.49	
o-Terphenyl	84-15-1	110	%	70-130	04.06.20 21.49	



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 11**
 Lab Sample Id: 657952-001

Matrix: Soil
 Date Collected: 04.02.20 08.00

Date Received: 04.06.20 11.35
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.06.20 20.21	U	1
Toluene	108-88-3	0.00263	0.00199	mg/kg	04.06.20 20.21		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.06.20 20.21	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.06.20 20.21	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.06.20 20.21	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.06.20 20.21	U	1
Total BTEX		0.00263	0.00199	mg/kg	04.06.20 20.21		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.06.20 20.21		
4-Bromofluorobenzene	460-00-4	107	%	70-130	04.06.20 20.21		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 12** Matrix: Soil Date Received: 04.06.20 11.35
 Lab Sample Id: 657952-002 Date Collected: 04.02.20 08.30 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 04.06.20 12.50 Basis: Wet Weight
 Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	642	4.96	mg/kg	04.06.20 16.19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 04.06.20 14.00 Basis: Wet Weight
 Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.20 22.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.20 22.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.20 22.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.20 22.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	04.06.20 22.53	
o-Terphenyl	84-15-1	108	%	70-130	04.06.20 22.53	



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 12**
 Lab Sample Id: 657952-002

Matrix: Soil
 Date Collected: 04.02.20 08.30

Date Received: 04.06.20 11.35
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.06.20 20.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.06.20 20.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.06.20 20.41	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.06.20 20.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.06.20 20.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.06.20 20.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.06.20 20.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	04.06.20 20.41		
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.06.20 20.41		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 13**
 Lab Sample Id: 657952-003

Matrix: Soil
 Date Collected: 04.02.20 09.00

Date Received: 04.06.20 11.35
 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	897	4.99	mg/kg	04.06.20 16.24		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.06.20 23.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.06.20 23.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.06.20 23.15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.06.20 23.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-130	04.06.20 23.15		
o-Terphenyl	84-15-1	106	%	70-130	04.06.20 23.15		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 13**
 Lab Sample Id: 657952-003

Matrix: Soil
 Date Collected: 04.02.20 09.00

Date Received: 04.06.20 11.35
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.06.20 21.02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.06.20 21.02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.06.20 21.02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.06.20 21.02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.06.20 21.02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.06.20 21.02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.06.20 21.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.06.20 21.02		
4-Bromofluorobenzene	460-00-4	109	%	70-130	04.06.20 21.02		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 14** Matrix: Soil Date Received: 04.06.20 11.35
 Lab Sample Id: 657952-004 Date Collected: 04.02.20 09.30 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 04.06.20 12.50 Basis: Wet Weight
 Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	5.02	mg/kg	04.06.20 16.29		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 04.06.20 14.00 Basis: Wet Weight
 Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.20 23.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.20 23.37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.20 23.37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.20 23.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-130	04.06.20 23.37		
o-Terphenyl	84-15-1	109	%	70-130	04.06.20 23.37		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 14**
Lab Sample Id: 657952-004

Matrix: Soil
Date Collected: 04.02.20 09.30

Date Received: 04.06.20 11.35
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.06.20 21.22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.06.20 21.22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.06.20 21.22	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.06.20 21.22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.06.20 21.22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.06.20 21.22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.06.20 21.22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.06.20 21.22		
4-Bromofluorobenzene	460-00-4	117	%	70-130	04.06.20 21.22		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 15**
Lab Sample Id: 657952-005

Matrix: Soil
Date Collected: 04.02.20 10.00

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	374	4.97	mg/kg	04.06.20 16.35		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.06.20 23.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.06.20 23.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.06.20 23.58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.06.20 23.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	124	%	70-130	04.06.20 23.58		
o-Terphenyl	84-15-1	130	%	70-130	04.06.20 23.58		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 15**
 Lab Sample Id: 657952-005

Matrix: Soil
 Date Collected: 04.02.20 10.00

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.06.20 21.42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.06.20 21.42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.06.20 21.42	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.06.20 21.42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.06.20 21.42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.06.20 21.42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.06.20 21.42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	04.06.20 21.42		
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.06.20 21.42		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 16**
 Lab Sample Id: 657952-006

Matrix: Soil
 Date Collected: 04.02.20 10.30

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.9	4.95	mg/kg	04.06.20 16.50		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.07.20 00.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.07.20 00.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.07.20 00.20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.07.20 00.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	04.07.20 00.20	
o-Terphenyl	84-15-1	110	%	70-130	04.07.20 00.20	



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 16**
 Lab Sample Id: 657952-006

Matrix: Soil
 Date Collected: 04.02.20 10.30

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.06.20 22.03	U	1
Toluene	108-88-3	0.00300	0.00198	mg/kg	04.06.20 22.03		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.06.20 22.03	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.06.20 22.03	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.06.20 22.03	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.06.20 22.03	U	1
Total BTEX		0.00300	0.00198	mg/kg	04.06.20 22.03		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.06.20 22.03		
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.06.20 22.03		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 17**
Lab Sample Id: 657952-007

Matrix: Soil
Date Collected: 04.02.20 11.00

Date Received: 04.06.20 11.35
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	41.2	4.95	mg/kg	04.06.20 16.56		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 00.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 00.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 00.41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 00.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-130	04.07.20 00.41		
o-Terphenyl	84-15-1	109	%	70-130	04.07.20 00.41		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 17**
Lab Sample Id: 657952-007

Matrix: Soil
Date Collected: 04.02.20 11.00

Date Received: 04.06.20 11.35
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.06.20 22.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.06.20 22.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.06.20 22.23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.06.20 22.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.06.20 22.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.06.20 22.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.06.20 22.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	04.06.20 22.23		
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.06.20 22.23		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 18**
Lab Sample Id: 657952-008

Matrix: Soil
Date Collected: 04.02.20 11.30

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.4	4.95	mg/kg	04.06.20 17.01		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.07.20 01.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.07.20 01.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.07.20 01.03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.07.20 01.03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	04.07.20 01.03		
o-Terphenyl	84-15-1	107	%	70-130	04.07.20 01.03		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 18**
 Lab Sample Id: 657952-008

Matrix: Soil
 Date Collected: 04.02.20 11.30

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.06.20 22.44	U	1
Toluene	108-88-3	0.00421	0.00201	mg/kg	04.06.20 22.44		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.06.20 22.44	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.06.20 22.44	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.06.20 22.44	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.06.20 22.44	U	1
Total BTEX		0.00421	0.00201	mg/kg	04.06.20 22.44		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.06.20 22.44		
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.06.20 22.44		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 19**
Lab Sample Id: 657952-009

Matrix: Soil
Date Collected: 04.02.20 12.00

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	70.1	5.03	mg/kg	04.06.20 17.06		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 01.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 01.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 01.25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 01.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-130	04.07.20 01.25		
o-Terphenyl	84-15-1	109	%	70-130	04.07.20 01.25		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 19**
 Lab Sample Id: 657952-009

Matrix: Soil
 Date Collected: 04.02.20 12.00

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.06.20 23.04	U	1
Toluene	108-88-3	0.00460	0.00199	mg/kg	04.06.20 23.04		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.06.20 23.04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.06.20 23.04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.06.20 23.04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.06.20 23.04	U	1
Total BTEX		0.00460	0.00199	mg/kg	04.06.20 23.04		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	04.06.20 23.04		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.06.20 23.04		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 20**
Lab Sample Id: 657952-010

Matrix: Soil
Date Collected: 04.02.20 12.30

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	283	4.98	mg/kg	04.06.20 17.12		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.07.20 01.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.07.20 01.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.07.20 01.46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.07.20 01.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-130	04.07.20 01.46		
o-Terphenyl	84-15-1	111	%	70-130	04.07.20 01.46		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 20**
Lab Sample Id: 657952-010

Matrix: Soil
Date Collected: 04.02.20 12.30

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.06.20 23.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.06.20 23.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.06.20 23.25	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.06.20 23.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.06.20 23.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.06.20 23.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.06.20 23.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.06.20 23.25		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.06.20 23.25		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 21**
 Lab Sample Id: 657952-011

Matrix: Soil
 Date Collected: 04.02.20 13.00

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	120	5.05	mg/kg	04.06.20 17.17		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 02.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 02.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 02.30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 02.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	04.07.20 02.30	
o-Terphenyl	84-15-1	96	%	70-130	04.07.20 02.30	



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 21**
 Lab Sample Id: 657952-011

Matrix: Soil
 Date Collected: 04.02.20 13.00

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.07.20 00.48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.07.20 00.48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.07.20 00.48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.07.20 00.48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.07.20 00.48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.07.20 00.48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.07.20 00.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.07.20 00.48		
4-Bromofluorobenzene	460-00-4	105	%	70-130	04.07.20 00.48		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: FL 22
Lab Sample Id: 657952-012

Matrix: Soil
Date Collected: 04.02.20 13.30

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.0	5.04	mg/kg	04.06.20 17.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 02.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 02.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 02.51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 02.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-130	04.07.20 02.51		
o-Terphenyl	84-15-1	113	%	70-130	04.07.20 02.51		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 22**
 Lab Sample Id: 657952-012

Matrix: Soil
 Date Collected: 04.02.20 13.30

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.07.20 01.09	U	1
Toluene	108-88-3	0.00280	0.00198	mg/kg	04.07.20 01.09		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.07.20 01.09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.07.20 01.09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.07.20 01.09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.07.20 01.09	U	1
Total BTEX		0.00280	0.00198	mg/kg	04.07.20 01.09		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	04.07.20 01.09		
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.07.20 01.09		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 23**
Lab Sample Id: 657952-013

Matrix: Soil
Date Collected: 04.02.20 14.00

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.1	4.97	mg/kg	04.06.20 17.38		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.07.20 03.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.07.20 03.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.07.20 03.13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.07.20 03.13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	04.07.20 03.13		
o-Terphenyl	84-15-1	107	%	70-130	04.07.20 03.13		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 23**
 Lab Sample Id: 657952-013

Matrix: Soil
 Date Collected: 04.02.20 14.00

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00238	0.00199	mg/kg	04.07.20 01.29		1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.07.20 01.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.07.20 01.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.07.20 01.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.07.20 01.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.07.20 01.29	U	1
Total BTEX		0.00238	0.00199	mg/kg	04.07.20 01.29		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.07.20 01.29		
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.07.20 01.29		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 24**
 Lab Sample Id: 657952-014

Matrix: Soil
 Date Collected: 04.02.20 14.30

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	281	4.99	mg/kg	04.06.20 17.54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 03.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 03.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 03.34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 03.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-130	04.07.20 03.34		
o-Terphenyl	84-15-1	111	%	70-130	04.07.20 03.34		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 24**
 Lab Sample Id: 657952-014

Matrix: Soil
 Date Collected: 04.02.20 14.30

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.07.20 01.50	U	1
Toluene	108-88-3	0.00423	0.00200	mg/kg	04.07.20 01.50		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.07.20 01.50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.07.20 01.50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.07.20 01.50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.07.20 01.50	U	1
Total BTEX		0.00423	0.00200	mg/kg	04.07.20 01.50		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	04.07.20 01.50		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.07.20 01.50		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **FL 25**
Lab Sample Id: 657952-015

Matrix: Soil
Date Collected: 04.02.20 15.00

Date Received: 04.06.20 11.35
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3122132

Date Prep: 04.06.20 12.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	226	4.98	mg/kg	04.06.20 17.59		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3122171

Date Prep: 04.06.20 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 03.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 03.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 03.56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 03.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-130	04.07.20 03.56		
o-Terphenyl	84-15-1	111	%	70-130	04.07.20 03.56		



Certificate of Analytical Results 657952

Etech Environmental & Safety Solution, Inc, Midland, TX
Conoco #4

Sample Id: **FL 25**
 Lab Sample Id: 657952-015

Matrix: Soil
 Date Collected: 04.02.20 15.00

Date Received: 04.06.20 11.35
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.07.20 02.10	U	1
Toluene	108-88-3	0.00221	0.00202	mg/kg	04.07.20 02.10		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.07.20 02.10	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.07.20 02.10	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.07.20 02.10	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.07.20 02.10	U	1
Total BTEX		0.00221	0.00202	mg/kg	04.07.20 02.10		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.07.20 02.10		
4-Bromofluorobenzene	460-00-4	128	%	70-130	04.07.20 02.10		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **EW 6**
Lab Sample Id: 657952-016

Matrix: Soil
Date Collected: 04.02.20 15.30

Date Received: 04.06.20 11.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	168	5.01	mg/kg	04.06.20 18.04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.07.20 04.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.07.20 04.18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.07.20 04.18	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.07.20 04.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	04.07.20 04.18	
o-Terphenyl	84-15-1	113	%	70-130	04.07.20 04.18	



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **EW 6**
 Lab Sample Id: 657952-016

Matrix: Soil
 Date Collected: 04.02.20 15.30

Date Received: 04.06.20 11.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.07.20 02.31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.07.20 02.31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.07.20 02.31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.07.20 02.31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.07.20 02.31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.07.20 02.31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.07.20 02.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.07.20 02.31		
4-Bromofluorobenzene	460-00-4	117	%	70-130	04.07.20 02.31		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **EW 7**
Lab Sample Id: 657952-017

Matrix: Soil
Date Collected: 04.02.20 16.00

Date Received: 04.06.20 11.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.60	4.96	mg/kg	04.06.20 18.09		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 04.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 04.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 04.40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 04.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-130	04.07.20 04.40		
o-Terphenyl	84-15-1	122	%	70-130	04.07.20 04.40		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **EW 7**
 Lab Sample Id: 657952-017

Matrix: Soil
 Date Collected: 04.02.20 16.00

Date Received: 04.06.20 11.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.07.20 02.51	U	1
Toluene	108-88-3	0.00223	0.00200	mg/kg	04.07.20 02.51		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.07.20 02.51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.07.20 02.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.07.20 02.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.07.20 02.51	U	1
Total BTEX		0.00223	0.00200	mg/kg	04.07.20 02.51		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.07.20 02.51		
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.07.20 02.51		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **WW 5**
Lab Sample Id: 657952-018

Matrix: Soil
Date Collected: 04.02.20 00.00

Date Received: 04.06.20 11.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	640	4.95	mg/kg	04.06.20 18.15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 05.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 05.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 05.02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 05.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	04.07.20 05.02	
o-Terphenyl	84-15-1	116	%	70-130	04.07.20 05.02	



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **WW 5**
 Lab Sample Id: 657952-018

Matrix: Soil
 Date Collected: 04.02.20 00.00

Date Received: 04.06.20 11.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.07.20 03.11	U	1
Toluene	108-88-3	0.00229	0.00198	mg/kg	04.07.20 03.11		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.07.20 03.11	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	04.07.20 03.11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.07.20 03.11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.07.20 03.11	U	1
Total BTEX		0.00229	0.00198	mg/kg	04.07.20 03.11		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	04.07.20 03.11		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.07.20 03.11		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **SW6**
Lab Sample Id: 657952-019

Matrix: Soil
Date Collected: 04.02.20 00.00

Date Received: 04.06.20 11.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	207	5.00	mg/kg	04.06.20 18.20		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.07.20 05.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.07.20 05.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.07.20 05.23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.07.20 05.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-130	04.07.20 05.23		
o-Terphenyl	84-15-1	109	%	70-130	04.07.20 05.23		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: SW6

Matrix: Soil

Date Received: 04.06.20 11.35

Lab Sample Id: 657952-019

Date Collected: 04.02.20 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00238	0.00199	mg/kg	04.07.20 03.32		1
Toluene	108-88-3	0.0142	0.00199	mg/kg	04.07.20 03.32		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.07.20 03.32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.07.20 03.32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.07.20 03.32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.07.20 03.32	U	1
Total BTEX		0.0166	0.00199	mg/kg	04.07.20 03.32		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	133	%	70-130	04.07.20 03.32	**	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.07.20 03.32		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: **SW7**
Lab Sample Id: 657952-020

Matrix: Soil
Date Collected: 04.02.20 00.00

Date Received: 04.06.20 11.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.20 12.50

Basis: Wet Weight

Seq Number: 3122132

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.1	4.95	mg/kg	04.06.20 18.25		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.06.20 14.00

Basis: Wet Weight

Seq Number: 3122171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.07.20 05.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.07.20 05.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.07.20 05.45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.07.20 05.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-130	04.07.20 05.45		
o-Terphenyl	84-15-1	110	%	70-130	04.07.20 05.45		



Certificate of Analytical Results 657952



Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #4

Sample Id: SW7
Lab Sample Id: 657952-020

Matrix: Soil
Date Collected: 04.02.20 00.00

Date Received: 04.06.20 11.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.06.20 16.00

Basis: Wet Weight

Seq Number: 3122148

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00324	0.00199	mg/kg	04.07.20 03.52		1
Toluene	108-88-3	0.0139	0.00199	mg/kg	04.07.20 03.52		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.07.20 03.52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.07.20 03.52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.07.20 03.52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.07.20 03.52	U	1
Total BTEX		0.0171	0.00199	mg/kg	04.07.20 03.52		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.07.20 03.52		
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.07.20 03.52		



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.

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

Conoco #4

Analytical Method: Chloride by EPA 300

Seq Number: 3122132

MB Sample Id: 7700630-1-BLK

Matrix: Solid

LCS Sample Id: 7700630-1-BKS

Prep Method: E300P

Date Prep: 04.06.20

LCSD Sample Id: 7700630-1-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	247	99	246	98	90-110	0	20	mg/kg	04.06.20 15:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3122132

Parent Sample Id: 657952-001

Matrix: Soil

MS Sample Id: 657952-001 S

Prep Method: E300P

Date Prep: 04.06.20

MSD Sample Id: 657952-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	667	250	874	83	874	83	90-110	0	20	mg/kg	04.06.20 16:08	X

Analytical Method: Chloride by EPA 300

Seq Number: 3122132

Parent Sample Id: 657952-011

Matrix: Soil

MS Sample Id: 657952-011 S

Prep Method: E300P

Date Prep: 04.06.20

MSD Sample Id: 657952-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	120	253	364	96	364	96	90-110	0	20	mg/kg	04.06.20 17:22	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3122171

MB Sample Id: 7700676-1-BLK

Matrix: Solid

LCS Sample Id: 7700676-1-BKS

Prep Method: SW8015P

Date Prep: 04.06.20

LCSD Sample Id: 7700676-1-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	1190	119	1170	117	70-130	2	20	mg/kg	04.06.20 21:05	
Diesel Range Organics (DRO)	<50.0	1000	1170	117	1170	117	70-130	0	20	mg/kg	04.06.20 21:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		114		123		70-130	%	04.06.20 21:05
o-Terphenyl	121		116		112		70-130	%	04.06.20 21:05

Analytical Method: TPH By SW8015 Mod

Seq Number: 3122171

Matrix: Solid

MB Sample Id: 7700676-1-BLK

Prep Method: SW8015P

Date Prep: 04.06.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.06.20 20:44	

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

Conoco #4

Analytical Method: TPH By SW8015 Mod

Seq Number: 3122171

Parent Sample Id: 657952-001

Matrix: Soil

MS Sample Id: 657952-001 S

Prep Method: SW8015P

Date Prep: 04.06.20

MSD Sample Id: 657952-001 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	1140	114	1150	115	70-130	1	20	mg/kg	04.06.20 22:10	
Diesel Range Organics (DRO)	<49.8	996	1190	119	1230	123	70-130	3	20	mg/kg	04.06.20 22:10	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		121		70-130	%	04.06.20 22:10
o-Terphenyl	107		109		70-130	%	04.06.20 22:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3122148

MB Sample Id: 7700688-1-BLK

Matrix: Solid

LCS Sample Id: 7700688-1-BKS

Prep Method: SW5030B

Date Prep: 04.06.20

LCSD Sample Id: 7700688-1-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	0.0922	92	0.0981	98	70-130	6	35	mg/kg	04.06.20 17:59	
Toluene	<0.00200	0.100	0.0950	95	0.0999	100	70-130	5	35	mg/kg	04.06.20 17:59	
Ethylbenzene	<0.00200	0.100	0.0978	98	0.101	101	70-130	3	35	mg/kg	04.06.20 17:59	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.204	102	70-130	5	35	mg/kg	04.06.20 17:59	
o-Xylene	<0.00200	0.100	0.0967	97	0.102	102	70-130	5	35	mg/kg	04.06.20 17:59	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		106		108		70-130	%	04.06.20 17:59
4-Bromofluorobenzene	101		101		105		70-130	%	04.06.20 17:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3122148

Parent Sample Id: 657952-001

Matrix: Soil

MS Sample Id: 657952-001 S

Prep Method: SW5030B

Date Prep: 04.06.20

MSD Sample Id: 657952-001 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	0.0923	93	0.0945	95	70-130	2	35	mg/kg	04.06.20 18:40	
Toluene	0.00263	0.0994	0.0917	90	0.0943	92	70-130	3	35	mg/kg	04.06.20 18:40	
Ethylbenzene	<0.00199	0.0994	0.0891	90	0.0900	91	70-130	1	35	mg/kg	04.06.20 18:40	
m,p-Xylenes	<0.00398	0.199	0.177	89	0.178	90	70-130	1	35	mg/kg	04.06.20 18:40	
o-Xylene	<0.00199	0.0994	0.0893	90	0.0905	91	70-130	1	35	mg/kg	04.06.20 18:40	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		110		70-130	%	04.06.20 18:40
4-Bromofluorobenzene	103		103		70-130	%	04.06.20 18:40

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



Work Order No.:

457952

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

ANALYSIS REQUEST										Preservative Codes
										HNO ₃ : HN
										H ₂ SO ₄ : H2
										HCL: HL
										None: NO
										NaOH: Na
										MeOH: Me
										Zn Acetate+ NaOH: Zn
E300										
21										
ified Ext										
005										

TAT starts the day received by the lab. If received by 4:30pm

Total	200.7 / 6010	200.8 / 6020:																															
<i>Circle Method(s) and Metal(s) to be analyzed</i>			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	Tl	Sn	U	V	Zn
			TCLP / SPLP 6010.	8RCRA	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U												

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 \$750.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

1631 / 245.1 / 7470 / 7471 : Hg

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 test 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
		4/3/20 14:33			4/4
					4
					6
					11:35



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:

UST1952

www.xenco.com Page _____ of _____

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Endeavour
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

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

Project Name:	Conoco #4	Turn Around	
Project Number:	12091	Routine:	☐
Project Location:		Rush:	☒
Sampler's Name:	Heber Uller	Due Date:	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes ☒	No ☐
Temperature (°C):	1.8/15	Thermometer:	PA
Received Inact:	Yes ☒	No ☐	
Cooler Custody Seals:	Yes ☒	No ☐	
Sample Custody Seals:	Yes ☒	No ☐	
Correction Factor:			
Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
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Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
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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
PL21		4.2.20	1:50	1							
PL22		4.2.20	1:30	1							
PL23		4.2.20	2:50	1							
PL24		4.2.20	2:30	1							
PL25		4.2.20	3:00	1							
PL26		4.2.20	3:20								
PL27		4.2.20	4:00								
PL28		4.2.20									
PL29		4.2.20									
PL30		4.2.20									
PL31		4.2.20									
PL32		4.2.20									
PL33		4.2.20									
PL34		4.2.20									
PL35		4.2.20									
PL36		4.2.20									
PL37		4.2.20									

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.06.2020 11.35.00 AM

Work Order #: 657952

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.5
#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: 04.06.2020

Checklist reviewed by:



Jessica Kramer

Date: 04.06.2020



Certificate of Analysis Summary 661730

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conco # 4

Project Id: 12091

Contact: PM

Project Location:

Date Received in Lab: Fri 05.15.2020 10:35

Report Date: 05.19.2020 14:31

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	661730-001	661730-002	661730-003	661730-004		
	Field Id:	FL # 11B @ 3'	FL # 12B @ 3'	WW # 5B	FL # 13B @ 4'		
	Depth:	3- ft	3- ft		4- ft		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	05.14.2020 00:00	05.14.2020 00:00	05.14.2020 00:00	05.14.2020 00:00		
Chloride by EPA 300	Extracted:	05.18.2020 11:25	05.18.2020 11:25	05.18.2020 11:25	05.18.2020 11:25		
	Analyzed:	05.18.2020 12:15	05.18.2020 12:21	05.18.2020 12:26	05.18.2020 12:44		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		10.4 5.03	215 4.96	59.5 4.99	11.6 5.01		

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

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

Jessica Kramer
Project Manager



Analytical Report 661730

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Conco # 4

12091

05.19.2020

Collected By: Client



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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.19.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **661730**

Conco # 4

Project Address:

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661730. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661730 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

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 661730

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco # 4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL # 11B @ 3'	S	05.14.2020 00:00	3 ft	661730-001
FL # 12B @ 3'	S	05.14.2020 00:00	3 ft	661730-002
WW # 5B	S	05.14.2020 00:00		661730-003
FL # 13B @ 4'	S	05.14.2020 00:00	4 ft	661730-004



CASE NARRATIVE

Client Name: *Etech Environmental & Safety Solution, Inc*

Project Name: *Conco # 4*

Project ID: 12091
Work Order Number(s): 661730

Report Date: 05.19.2020
Date Received: 05.15.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

**Certificate of Analytical Results 661730****Etech Environmental & Safety Solution, Inc, Midland, TX**

Conco # 4

Sample Id: **FL # 11B @ 3'**

Matrix: Soil

Date Received: 05.15.2020 10:35

Lab Sample Id: 661730-001

Date Collected: 05.14.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: CHE

Date Prep: 05.18.2020 11:25

Basis: Wet Weight

Seq Number: 3126355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	5.03	mg/kg	05.18.2020 12:15		1

**Certificate of Analytical Results 661730****Etech Environmental & Safety Solution, Inc, Midland, TX**

Conco # 4

Sample Id: **FL # 12B @ 3'**

Matrix: Soil

Date Received: 05.15.2020 10:35

Lab Sample Id: 661730-002

Date Collected: 05.14.2020 00:00

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: CHE

Date Prep: 05.18.2020 11:25

Basis: Wet Weight

Seq Number: 3126355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	215	4.96	mg/kg	05.18.2020 12:21		1

**Certificate of Analytical Results 661730****Etech Environmental & Safety Solution, Inc, Midland, TX**

Conco # 4

Sample Id: **WW # 5B**

Matrix: Soil

Date Received: 05.15.2020 10:35

Lab Sample Id: 661730-003

Date Collected: 05.14.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: CHE

Date Prep: 05.18.2020 11:25

Basis: Wet Weight

Seq Number: 3126355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.5	4.99	mg/kg	05.18.2020 12:26		1

**Certificate of Analytical Results 661730****Etech Environmental & Safety Solution, Inc, Midland, TX****Conco # 4**Sample Id: **FL # 13B @ 4'**

Matrix: Soil

Date Received: 05.15.2020 10:35

Lab Sample Id: 661730-004

Date Collected: 05.14.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: CHE

Date Prep: 05.18.2020 11:25

Basis: Wet Weight

Seq Number: 3126355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.6	5.01	mg/kg	05.18.2020 12:44		1



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

Conco # 4

Analytical Method: Chloride by EPA 300

Seq Number: 3126355

MB Sample Id: 7703502-1-BLK

Matrix: Solid

LCS Sample Id: 7703502-1-BKS

Prep Method: E300P

Date Prep: 05.18.2020

LCSD Sample Id: 7703502-1-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	239	96	90-110	3	20	mg/kg	05.18.2020 11:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3126355

Parent Sample Id: 661705-035

Matrix: Soil

MS Sample Id: 661705-035 S

Prep Method: E300P

Date Prep: 05.18.2020

MSD Sample Id: 661705-035 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	131	253	378	98	388	102	90-110	3	20	mg/kg	05.18.2020 11:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3126355

Parent Sample Id: 661817-005

Matrix: Soil

MS Sample Id: 661817-005 S

Prep Method: E300P

Date Prep: 05.18.2020

MSD Sample Id: 661817-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	120	248	359	96	346	91	90-110	4	20	mg/kg	05.18.2020 13:18	

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

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

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

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



Chain of Custody

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300. San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440. El Paso, TX (915) 585-3443. Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550. Carlsbad, NM (505) 986-3199. Phoenix, AZ (480) 365-0900
Tampa, FL (813) 620-2000. Tallahassee, FL (850) 756-0747. Delray Beach, FL (561) 689-6707
Atlanta, GA (770) 449-8800

Work Order No.:

00750

Project Manager: Joel Lowry		Bill to: (if different)	
Company Name: Elect Environmental & Safety		Company Name: Endover	
Address: 3100 Plains Highway		Address:	
City, State ZIP: Lawington, NM, 88260		City, State ZIP:	
Phone: 575-396-2378		Email: PM@electenv.com + Client	

Project Name: Chaco # 4		Turn Around	
Project Number: 12091		Routine: ☐	
Project Location: Hill Country		Rush: ☐	
Sample Name: Hill Country		Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C): 3.3/5.0	Temp Blank: ☒	Yes	No
Received Inlet: Yes	Thermometer: B9	Yes	No
Cooler Custody Seals: Yes	Correction Factor: -0.5	Yes	No
Sample Custody Seals: Yes	Total Containers:	Yes	No

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	ANALYSIS REQUEST	Preservative Codes
FL # 11B @ 3'		5/14/20		3'	Chloride E300	☒	HNO3: HN
FL # 12B @ 3'		5/14/20		3'	BTEX 8021	☒	H2SO4: H2
WM # 5B		5/14/20		3'	TPH Modified Ext	☒	HCL: HL
FL # 13B @ 4'		5/14/20		4'	TPH TX1005	☒	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	

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): Armando	Received by (Signature): Armando	Date/Time: 5/14/20
Relinquished by (Signature): Armando	Received by (Signature): Armando	Date/Time: 5/15/20

1631 / 245.1 / 7470 / 7471 : Hg

SHIP DATE: 14 MAY 20
ACTWGT: 11.00 LB MON
CAD: 0909328/CAFE3211
DIMS: 14x10x10 IN
BILL RECIPIENT
CHECK UP

551C3/2925/184C

MIDLAND TX 79711
EX PRESS ROAD
COUNTY ROAD
EXPRESS
TX 79711
REF

DEPT :

FRI - 15 MAY HOLD
PRIORITY OVERNIGHT HLD
MAFA LBB
TX-US

TRK#
0201

4705 2523 6251
41 MAFA

U.S. DEPARTMENT OF JUSTICE

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.15.2020 10.35.00 AM

Work Order #: 661730

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist

Comments

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 05.15.2020

Checklist reviewed by:



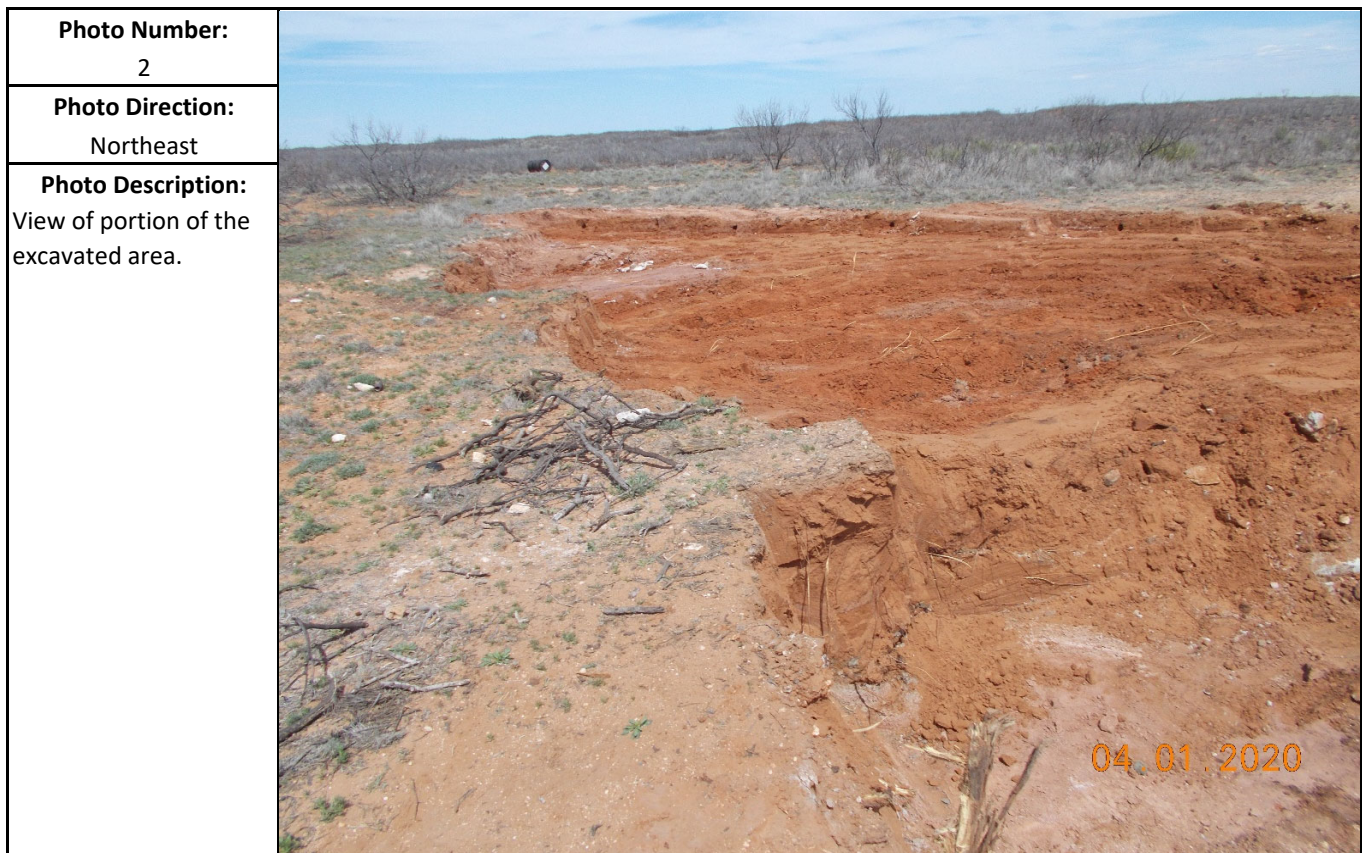
Jessica Kramer

Date: 05.15.2020

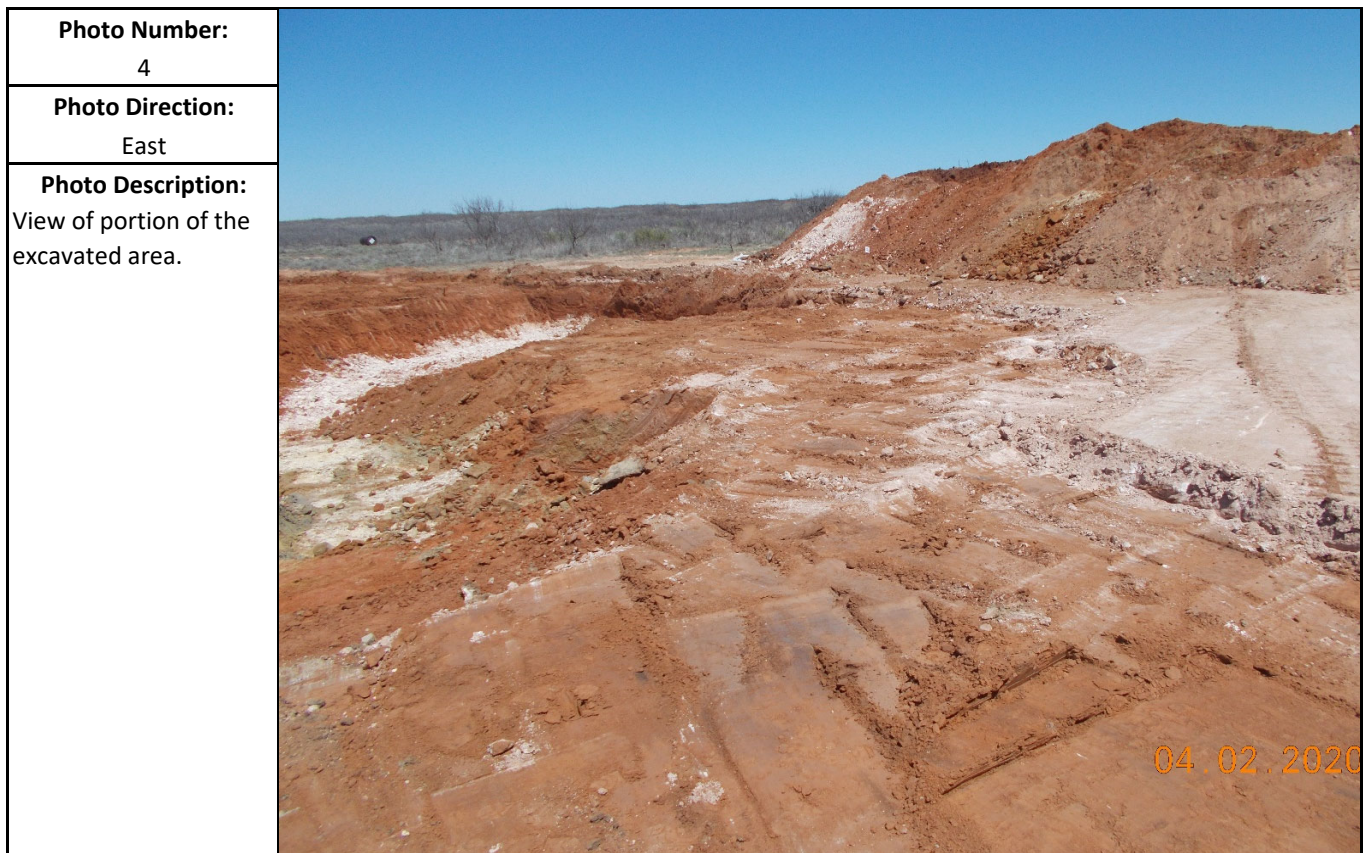
Appendix D

Photographic Log

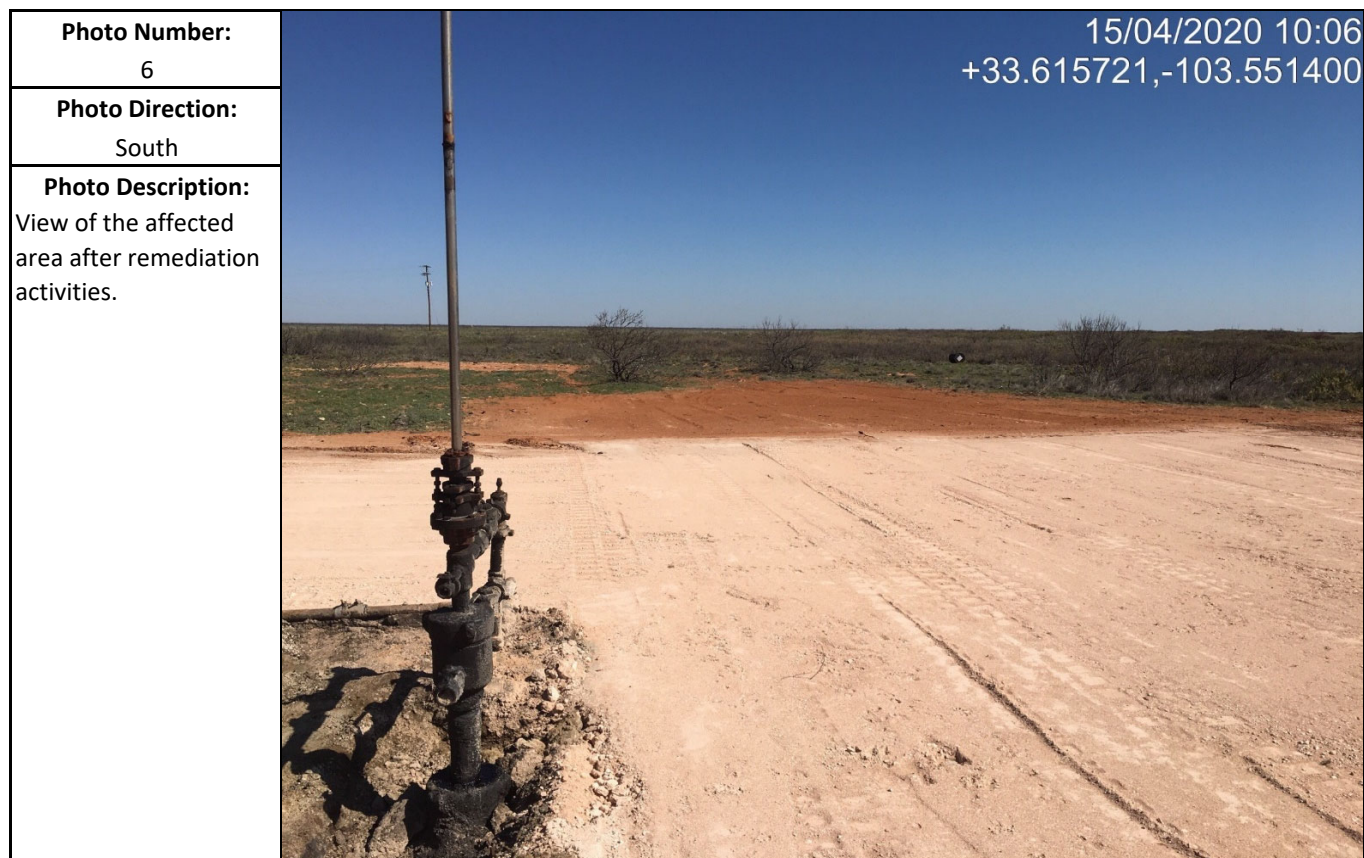
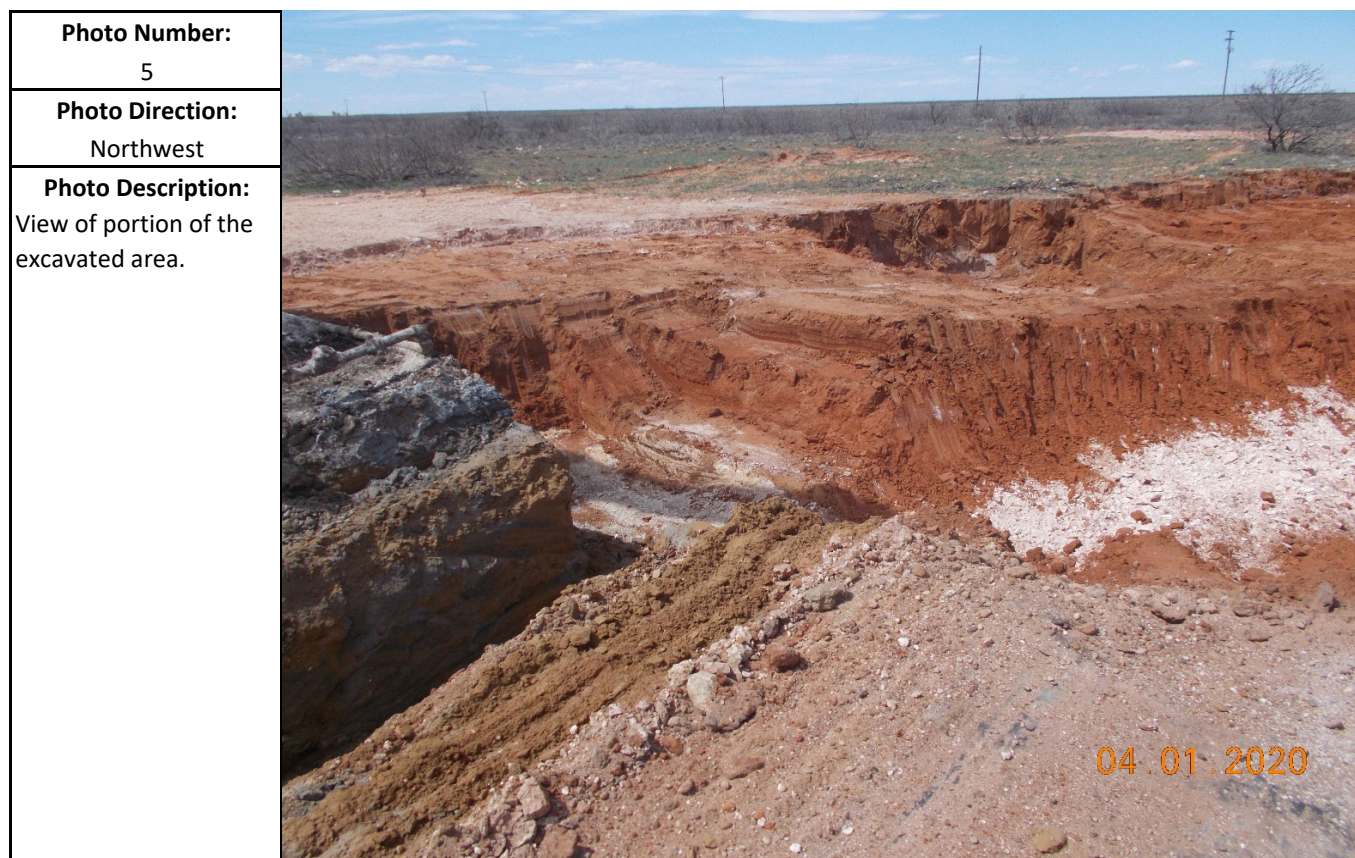
Photographic Log



Photographic Log



Photographic Log



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 10807

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
ENDEAVOR ENERGY RESOURCES, LP Suite 200 Midland, TX79701	190595	10807	C-141
110 North Marienfeld			
OCD Reviewer	Condition		
ceads	None		