

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2114445036
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>0-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 1/2-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.

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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: Nikki Mishler Title: Sr. Environmental Representative

Signature:  Date: 3/8/2022

email: Nikki.Mishler@cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

Printed Name: Nikki Mishler Title: Sr. Environmental Representative

Signature:  Date: 3/8/2022

email: Nikki.Mishler@cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2114445036
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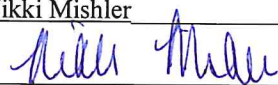
Closure

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: Nikki Mishler Title: Sr. Environmental Representative
 Signature:  Date: 3/8/2022
 email: Nikki.Mishler@cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: Chad Hensley Date: 04/05/2022

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: 04/05/2022
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced



CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Development, Inc.
Chorizo 12 CTB
Lea County, New Mexico
Unit Letter "N", Section 36, Township 21 South, Range 34 East
Latitude 32.43125° North, Longitude 103.42602° West
NMOCD Incident: nAPP2114445036

Prepared For:

Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Prepared By:

Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, Texas 79711

February 2022

A handwritten signature in black ink, reading "Wesley A. Desilets".

Wesley A. Desilets
Project Manager

A handwritten signature in black ink, reading "Timothy McMinn".

Timothy McMinn
Senior Project Manager

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INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Chorizo 12 CTB. The legal description of the Release Site is Unit Letter "N", Section 36, Township 21 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.43125° North and 103.42602° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Confirmation Soil Sample Location Map.

On May 21, 2021, Centennial discovered that a release had occurred due to an open choke valve which caused the gun barrel to overfill. Approximately seven (7) barrels of crude oil were released with five (5) barrels recovered, resulting in a net loss of approximately two (2) barrels of crude oil. On June 2, 2021, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Chorizo 12 CTB Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 322657103255201 located approximately one and a quarter (1.25) miles northwest of the Release Site. The average depth to groundwater for USGS Well #: 322657103255201 should be encountered at approximately ninety-nine (99) feet below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the Chorizo 12 CTB Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 14, 2021, Etech commenced excavation activities at the Release Site utilizing heavy equipment and manual means. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment. Excavated soil was stockpiled on site and remediated utilizing blending and aerating techniques.

From June 16 through June 22, 2021, Etech, on behalf of Centennial, collected sixteen (16) composite confirmation soil samples from the base of the excavated areas, two (2) composite confirmation soil samples from the sidewalls of the excavation, and one (1) composite soil sample from the stockpiled soil. Soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional excavation activities were necessary in the areas represented as Bottom Hole 2 @ 1' and South Wall @ 6" due to elevated chloride concentrations and it was determined that further remediation activities were necessary for the impacted stockpile. Please reference Figure 2 for soil sampling locations.

On July 26, 2021, following further excavation activities, two (2) composite confirmation soil samples (Bottom Hole 2 @ 24" and South Wall @ 24") were collected from the excavated areas, and one (1) composite soil sample (Stockpile) was collected from the stockpiled soil. The samples were submitted to PBELAB for TPH and/or chloride analysis. Please reference Figure 2 for site details and soil sampling locations. Based on the analytical results it was determined that the impacted stockpiled soil would require disposal due to elevated TPH and chloride concentrations.

On August 11, 2021, hydrocarbon staining was observed in the vicinity of the containment during disposal activities. Following excavation activities, one (1) composite confirmation soil sample was collected from the base of the excavated area (Bottom Hole 17 @ 1') and one (1) composite confirmation soil sample was collected from the side wall of the excavation (South Wall 2 @ 1'). The samples were submitted to PBELAB for BTEX, TPH and chloride analysis. The excavated soil was added to the existing stockpiled soil pending disposal. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

On September 15, 2021, eleven (11) composite confirmation soil samples were collected from the perimeter of the excavated areas. The samples were submitted to PBELAB for BTEX, TPH and chloride analysis. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits, with the exception of the area associated with composite confirmation soil sample Perimeter #10 which exhibited chloride concentrations above the regulatory limits.

On October 21, 2021, following further excavation activities, one (1) composite confirmation soil sample was collected from the further excavated area (Perimeter #10A) and submitted to PBELAB for chloride analysis. A review of laboratory analytical results indicated the collected soil sample was below applicable NMOCD limits.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVITIES

In August 2021, Etech transported approximately two hundred (200) cubic yards of impacted soil to the Sundance disposal facility in Lea County, NM.

On December 3, 2021, the excavated areas were backfilled with non-impacted like soil from a local source and the site was contoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results, Etech, on the behalf of Centennial, requests NMOCD and NMSLO grant Site Closure Status to the Chorizo 12 CTB Release Site NMOCD Incident: nAPP2114445036.

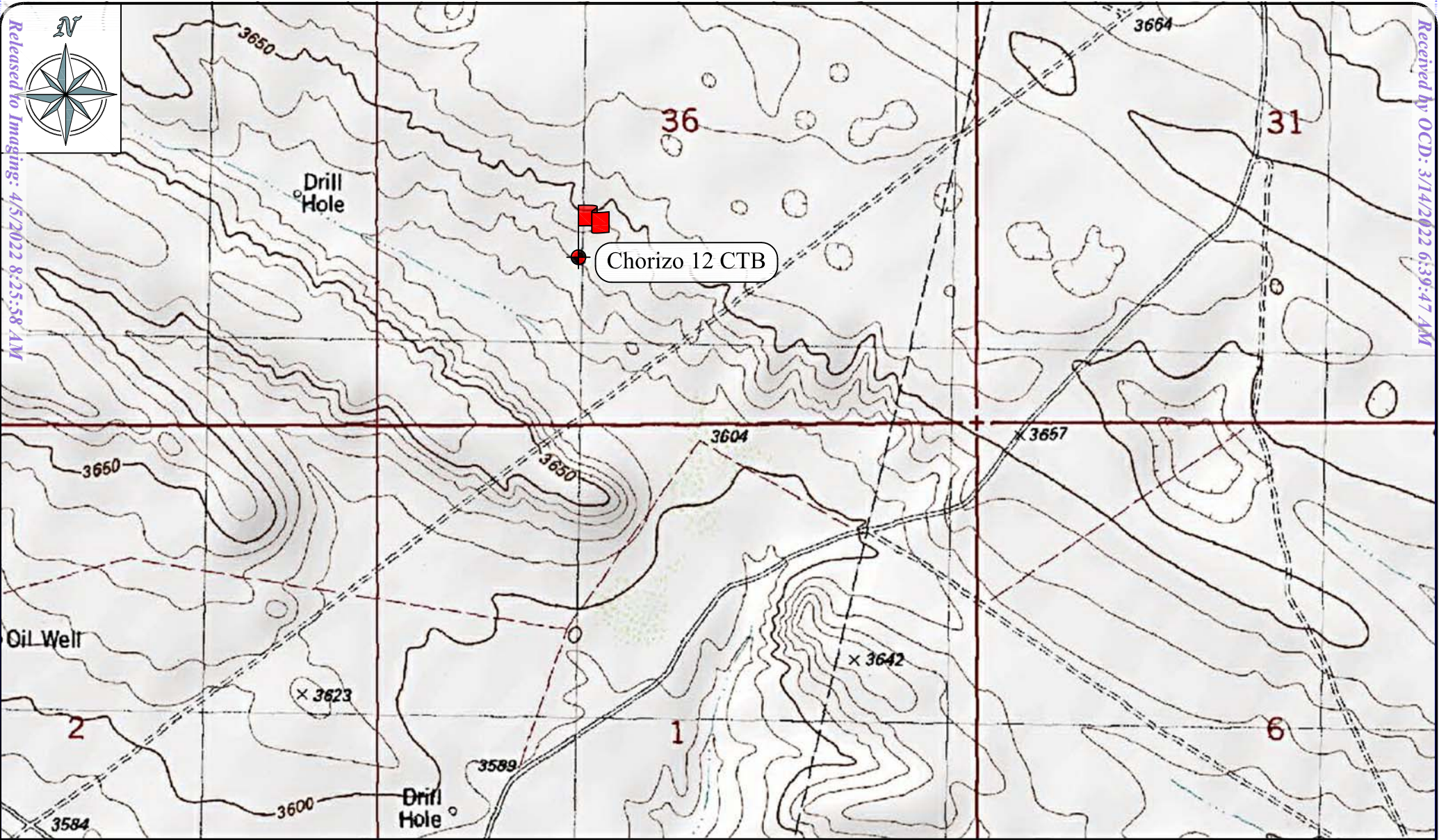
LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also 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 Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

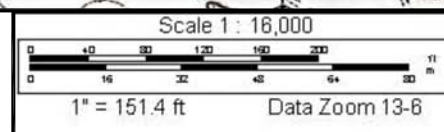
DISTRIBUTION

- Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1624 N. French Drive
Hobbs, New Mexico 88210
- Copy 2: Ryan Mann
New Mexico State Land Office
Remediation Specialist
2827 N. Dal Paso Suite 117
Hobbs, NM 88240
- Copy 3: Nikki Mishler
Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701
- Copy 4: Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, TX 79711




Released to Imaging: 4/5/2022 8:25:58 AM

Received by OCD: 3/14/2022 6:39:47 AM



Site - Chorizo 12 CTB
Site Location Map
Centennial Resource Development, Inc.
Lea County, NM
N 32.43125°, W 103.42602°
February 2022

Legend

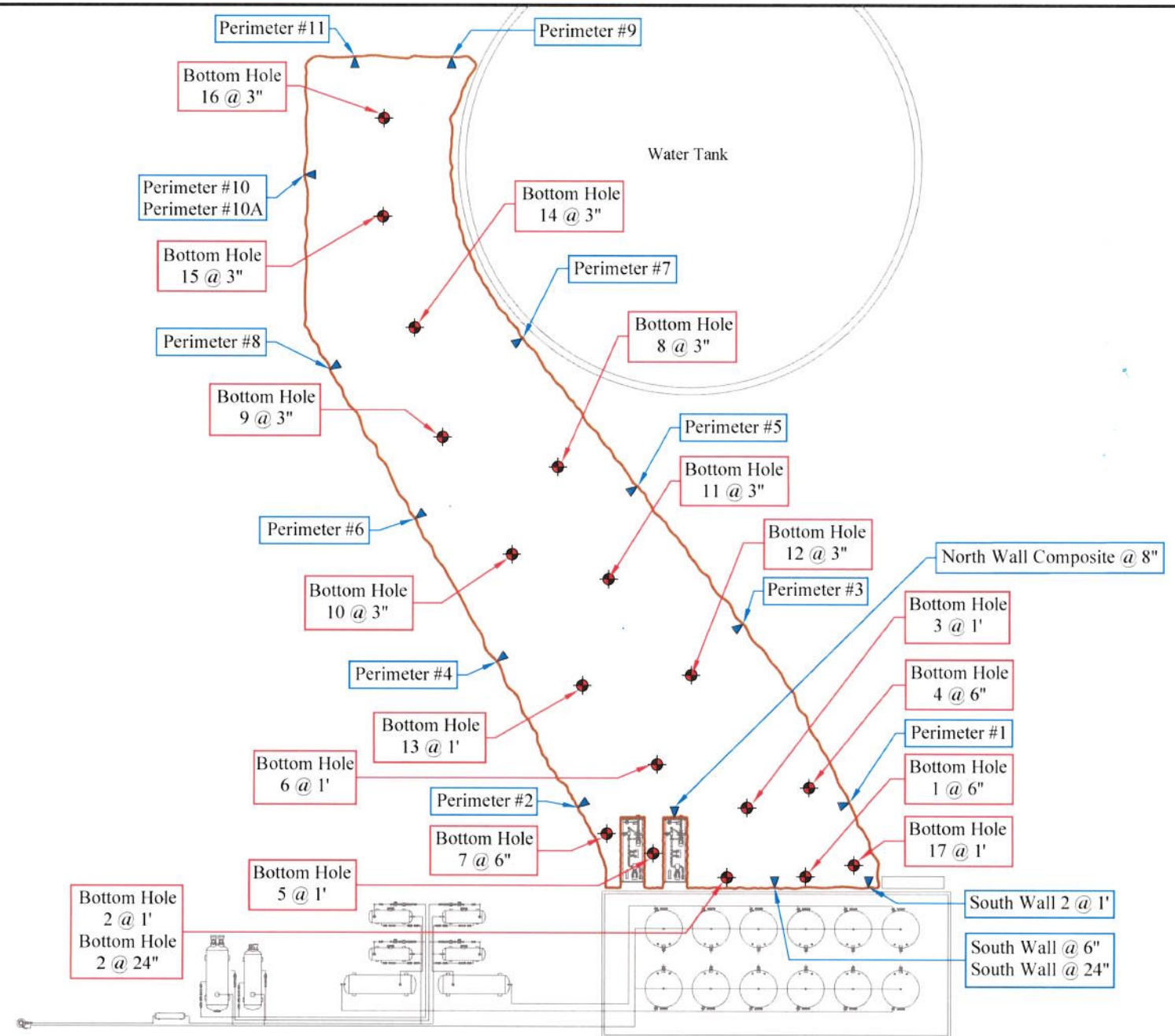
 = Site Location

eTECH
Environmental & Safety Solutions, Inc.

CDEV ID No.: 99087

Figure 1

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Notes:

1. All sample points are approximate.
2. All samples are 5-point composites.

Site - Chorizo 12 CTB
 Confirmation Soil Sample Location Map
 Centennial Resource Development, Inc.
 Lea County, NM
 N 32.43125°, W 103.42602°
 February 2022

Legend

- = Bottom Hole Sample Point
- ▲ = Side Wall Sample Point

Excavation Perimeter

0 50 100
 Scale: 1:60 ft



CDEV ID No.:

99087

Figure 2

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

CHORIZO 12 CTB RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0	
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE	
Limits		10 mg/Kg						50 mg/Kg					100 mg/Kg	600 mg/Kg
Bottom Hole Sample Results														
Bottom Hole 1 @ 6"	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	471	
Bottom Hole 2 @ 1'	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	665	
Bottom Hole 2 @ 24"	7/26/2021	-	-	-	-	-	-	-	-	-	-	-	2.84	
Bottom Hole 3 @ 1'	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	328	
Bottom Hole 4 @ 6"	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	147	
Bottom Hole 5 @ 1'	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	494	
Bottom Hole 6 @ 1'	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	128	
Bottom Hole 7 @ 6"	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86.7	
Bottom Hole 8 @ 3"	6/17/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	125	
Bottom Hole 9 @ 3"	6/17/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53.9	
Bottom Hole 10 @ 3"	6/17/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	98.3	
Bottom Hole 11 @ 3"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	43.2	ND	43.2	372	
Bottom Hole 12 @ 3"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	127	
Bottom Hole 13 @ 3"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	116	
Bottom Hole 14 @ 3"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124	
Bottom Hole 15 @ 3"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	545	
Bottom Hole 16 @ 3"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	566	
Bottom Hole 17 @ 1'	8/11/2021	ND	ND	ND	ND	ND	ND	ND	ND	37.2	ND	37.2	28.8	
Side Wall Sample Results														
North Wall Composite @ 8"	6/21/2021	ND	ND	ND	ND	ND	ND	ND	ND	51.3	ND	51.3	454	
South Wall @ 6"	6/16/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,250	
South Wall @ 24"	7/26/2021	-	-	-	-	-	-	-	-	-	-	-	5.27	
South Wall 2 @ 1'	8/11/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.7	
Perimeter #1	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	47.0	ND	47.0	10.0	
Perimeter #2	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	35.4	ND	35.4	5.22	
Perimeter #3	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.8	
Perimeter #4	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.3	
Perimeter #5	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	427	
Perimeter #6	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46.2	

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

CHORIZO 12 CTB RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
Perimeter #7	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	29.1	ND	29.1	402
Perimeter #8	9/15/2021	ND	0.00156	ND	ND	ND	0.00156	ND	ND	ND	ND	ND	127
Perimeter #9	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	179
Perimeter #10	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,050
Perimeter #10A	10/21/2021	-	-	-	-	-	-	-	-	-	-	-	247
Perimeter #11	9/15/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	118
Stockpile Sample Results													
Stockpile	6/22/2021	ND	ND	ND	ND	ND	ND	ND	30.1	1,580	270	1,880	1,750
Stockpile	7/26/2021	-	-	-	-	-	-	-	42.8	3,120	698	3,860.8	2,300

Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Photo No: 3.	
Direction Taken: East	
Description: View of the impacted area.	

Photo No: 4.	
Direction Taken: North	
Description: View of the impacted area.	

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Photo No: 5.	
Direction Taken: Northwest	
Description: View of the impacted area.	

Photo No: 6.	
Direction Taken: West	
Description: View of the impacted area.	

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

Project Name: Chorizo 12 CTB
Project No: 14229

Photographic Documentation

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



Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Chorizo 12 CTB

Project Number: 14229

Location: New Mexico

Lab Order Number: 1F24002



Current Certification

Report Date: 07/01/21

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1 @ 6"	1F24002-01	Soil	06/16/21 07:30	06-23-2021 16:31
Bottom Hole 2 @ 1'	1F24002-02	Soil	06/16/21 08:25	06-23-2021 16:31
Bottom Hole 3 @ 1'	1F24002-03	Soil	06/16/21 09:00	06-23-2021 16:31
Bottom Hole 4 @ 6"	1F24002-04	Soil	06/16/21 09:45	06-23-2021 16:31
Bottom Hole 5 @ 1'	1F24002-05	Soil	06/16/21 12:00	06-23-2021 16:31
Bottom Hole 6 @ 1'	1F24002-06	Soil	06/16/21 13:25	06-23-2021 16:31
Bottom Hole 7 @ 6"	1F24002-07	Soil	06/16/21 14:40	06-23-2021 16:31
Bottom Hole 8 @ 3"	1F24002-08	Soil	06/17/21 13:35	06-23-2021 16:31
Bottom Hole 9 @ 3"	1F24002-09	Soil	06/17/21 13:45	06-23-2021 16:31
Bottom Hole 10 @ 3"	1F24002-10	Soil	06/17/21 14:00	06-23-2021 16:31
Bottom Hole 11 @ 3"	1F24002-11	Soil	06/21/21 08:30	06-23-2021 16:31
Bottom Hole 12 @ 3"	1F24002-12	Soil	06/21/21 09:39	06-23-2021 16:31
Bottom Hole 13 @ 3"	1F24002-13	Soil	06/21/21 08:56	06-23-2021 16:31
Bottom Hole 14 @ 3"	1F24002-14	Soil	06/21/21 13:30	06-23-2021 16:31
Bottom Hole 15 @ 3"	1F24002-15	Soil	06/21/21 13:50	06-23-2021 16:31
Bottom Hole 16 @ 3"	1F24002-16	Soil	06/21/21 14:10	06-23-2021 16:31
North Wall Composite @ 8"	1F24002-17	Soil	06/21/21 08:52	06-23-2021 16:31
South Wall @ 6"	1F24002-18	Soil	06/16/21 07:05	06-23-2021 16:31
Stockpile	1F24002-19	Soil	06/22/21 13:25	06-23-2021 16:31

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Bottom Hole 1 @ 6"
1F24002-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.4 %		80-120		P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.8 %		80-120		P1F2403	06/24/21 12:04	06/24/21 17:27	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	471	1.06	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 16:26	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:03	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:03	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:03	TPH 8015M	
Surrogate: 1-Chlorooctane	110 %		70-130		P1F2404	06/24/21 12:30	06/24/21 23:03	TPH 8015M	
Surrogate: o-Terphenyl	116 %		70-130		P1F2404	06/24/21 12:30	06/24/21 23:03	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/24/21 12:30	06/24/21 23:03	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 2 @ 1'
1F24002-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.8 %		80-120		P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.0 %		80-120		P1F2403	06/24/21 12:04	06/24/21 17:48	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	665	1.12	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 16:41	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:25	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:25	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:25	TPH 8015M	
Surrogate: 1-Chlorooctane	118 %		70-130		P1F2404	06/24/21 12:30	06/24/21 23:25	TPH 8015M	
Surrogate: o-Terphenyl	124 %		70-130		P1F2404	06/24/21 12:30	06/24/21 23:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	06/24/21 12:30	06/24/21 23:25	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 3 @ 1'
1F24002-03 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.6 %		80-120		P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.8 %		80-120		P1F2403	06/24/21 12:04	06/24/21 18:10	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	328	1.05	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 16:56	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:47	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:47	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/24/21 23:47	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1F2404	06/24/21 12:30	06/24/21 23:47	TPH 8015M	
Surrogate: o-Terphenyl	128 %		70-130		P1F2404	06/24/21 12:30	06/24/21 23:47	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/24/21 12:30	06/24/21 23:47	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 4 @ 6"
1F24002-04 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.7 %		80-120		P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.2 %		80-120		P1F2403	06/24/21 12:04	06/24/21 18:31	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	147	1.10	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 17:11	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:09	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:09	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:09	TPH 8015M	
Surrogate: 1-Chlorooctane	117 %		70-130		P1F2404	06/24/21 12:30	06/25/21 00:09	TPH 8015M	
Surrogate: o-Terphenyl	123 %		70-130		P1F2404	06/24/21 12:30	06/25/21 00:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 00:09	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 5 @ 1'
1F24002-05 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.6 %		80-120		P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	86.5 %		80-120		P1F2403	06/24/21 12:04	06/24/21 18:52	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	494	1.14	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 17:27	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:31	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:31	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:31	TPH 8015M	
Surrogate: 1-Chlorooctane	127 %		70-130		P1F2404	06/24/21 12:30	06/25/21 00:31	TPH 8015M	
Surrogate: o-Terphenyl	133 %		70-130		P1F2404	06/24/21 12:30	06/25/21 00:31	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 00:31	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 6 @ 1'
1F24002-06 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	97.1 %		80-120		P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.1 %		80-120		P1F2403	06/24/21 12:04	06/24/21 19:14	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	128	1.08	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 17:42	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:53	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:53	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 00:53	TPH 8015M	
Surrogate: 1-Chlorooctane	118 %		70-130		P1F2404	06/24/21 12:30	06/25/21 00:53	TPH 8015M	
Surrogate: o-Terphenyl	125 %		70-130		P1F2404	06/24/21 12:30	06/25/21 00:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 00:53	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 7 @ 6"
1F24002-07 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.7 %		80-120		P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.3 %		80-120		P1F2403	06/24/21 12:04	06/24/21 19:35	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	86.7	1.04	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 17:57	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:15	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:15	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1F2404	06/24/21 12:30	06/25/21 01:15	TPH 8015M	
Surrogate: o-Terphenyl	125 %		70-130		P1F2404	06/24/21 12:30	06/25/21 01:15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 01:15	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Bottom Hole 8 @ 3"
1F24002-08 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.3 %		80-120		P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.3 %		80-120		P1F2403	06/24/21 12:04	06/24/21 19:56	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	125	1.03	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 18:43	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:37	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:37	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:37	TPH 8015M	
Surrogate: 1-Chlorooctane	120 %		70-130		P1F2404	06/24/21 12:30	06/25/21 01:37	TPH 8015M	
Surrogate: o-Terphenyl	127 %		70-130		P1F2404	06/24/21 12:30	06/25/21 01:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 01:37	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 9 @ 3"
1F24002-09 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.2 %		80-120		P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.9 %		80-120		P1F2403	06/24/21 12:04	06/24/21 20:17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	53.9	1.06	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 19:29	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:59	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:59	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 01:59	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1F2404	06/24/21 12:30	06/25/21 01:59	TPH 8015M	
Surrogate: o-Terphenyl	125 %		70-130		P1F2404	06/24/21 12:30	06/25/21 01:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 01:59	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 10 @ 3"

1F24002-10 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.8 %		80-120		P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.2 %		80-120		P1F2403	06/24/21 12:04	06/24/21 20:38	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	98.3	1.02	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 19:45	EPA 300.0	
% Moisture	2.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 02:21	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 02:21	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 02:21	TPH 8015M	
Surrogate: 1-Chlorooctane	121 %		70-130		P1F2404	06/24/21 12:30	06/25/21 02:21	TPH 8015M	
Surrogate: o-Terphenyl	128 %		70-130		P1F2404	06/24/21 12:30	06/25/21 02:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 02:21	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 11 @ 3"

1F24002-11 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.1 %		80-120		P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.0 %		80-120		P1F2403	06/24/21 12:04	06/24/21 21:41	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	372	1.03	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 20:00	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 03:27	TPH 8015M	
>C12-C28	43.2	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 03:27	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 03:27	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1F2404	06/24/21 12:30	06/25/21 03:27	TPH 8015M	
Surrogate: o-Terphenyl	128 %		70-130		P1F2404	06/24/21 12:30	06/25/21 03:27	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	43.2	25.8	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 03:27	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 12 @ 3"

1F24002-12 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.0 %		80-120		P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.7 %		80-120		P1F2403	06/24/21 12:04	06/24/21 22:02	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.08	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 20:15	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 03:49	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 03:49	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 03:49	TPH 8015M	
Surrogate: 1-Chlorooctane	124 %		70-130		P1F2404	06/24/21 12:30	06/25/21 03:49	TPH 8015M	
Surrogate: o-Terphenyl	132 %		70-130		P1F2404	06/24/21 12:30	06/25/21 03:49	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 03:49	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 13 @ 3"

1F24002-13 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.0 %		80-120		P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.8 %		80-120		P1F2403	06/24/21 12:04	06/24/21 22:23	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	116	1.01	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 20:31	EPA 300.0	
% Moisture	1.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:11	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:11	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:11	TPH 8015M	
Surrogate: 1-Chlorooctane	122 %		70-130		P1F2404	06/24/21 12:30	06/25/21 04:11	TPH 8015M	
Surrogate: o-Terphenyl	132 %		70-130		P1F2404	06/24/21 12:30	06/25/21 04:11	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 04:11	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 14 @ 3"

1F24002-14 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.5 %		80-120		P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	82.9 %		80-120		P1F2403	06/24/21 12:04	06/24/21 22:44	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	124	1.05	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 20:46	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:33	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:33	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:33	TPH 8015M	
Surrogate: 1-Chlorooctane	129 %		70-130		P1F2404	06/24/21 12:30	06/25/21 04:33	TPH 8015M	
Surrogate: o-Terphenyl	139 %		70-130		P1F2404	06/24/21 12:30	06/25/21 04:33	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 04:33	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 15 @ 3"

1F24002-15 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.3 %		80-120		P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.7 %		80-120		P1F2403	06/24/21 12:04	06/24/21 23:05	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	545	1.05	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 21:01	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:55	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:55	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 04:55	TPH 8015M	
Surrogate: 1-Chlorooctane	124 %		70-130		P1F2404	06/24/21 12:30	06/25/21 04:55	TPH 8015M	
Surrogate: o-Terphenyl	132 %		70-130		P1F2404	06/24/21 12:30	06/25/21 04:55	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 04:55	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Bottom Hole 16 @ 3"

1F24002-16 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.4 %		80-120		P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	85.3 %		80-120		P1F2403	06/24/21 12:04	06/24/21 23:26	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	566	1.06	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 21:17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 05:17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 05:17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 05:17	TPH 8015M	
Surrogate: 1-Chlorooctane	119 %		70-130		P1F2404	06/24/21 12:30	06/25/21 05:17	TPH 8015M	
Surrogate: o-Terphenyl	126 %		70-130		P1F2404	06/24/21 12:30	06/25/21 05:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 05:17	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

North Wall Composite @ 8"
1F24002-17 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.8 %		80-120		P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	82.5 %		80-120		P1F2403	06/24/21 12:04	06/24/21 23:47	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	454	1.11	mg/kg dry	1	P1F3004	06/30/21 10:30	06/30/21 21:32	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 05:39	TPH 8015M	
>C12-C28	51.3	27.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 05:39	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 05:39	TPH 8015M	
Surrogate: 1-Chlorooctane	115 %		70-130		P1F2404	06/24/21 12:30	06/25/21 05:39	TPH 8015M	
Surrogate: o-Terphenyl	122 %		70-130		P1F2404	06/24/21 12:30	06/25/21 05:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	51.3	27.8	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 05:39	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

South Wall @ 6"
1F24002-18 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.8 %		80-120		P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.7 %		80-120		P1F2403	06/24/21 12:04	06/25/21 00:07	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2250	10.8	mg/kg dry	10	P1F3005	06/30/21 10:35	06/30/21 23:04	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 06:01	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 06:01	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 06:01	TPH 8015M	
Surrogate: 1-Chlorooctane	118 %		70-130		P1F2404	06/24/21 12:30	06/25/21 06:01	TPH 8015M	
Surrogate: o-Terphenyl	124 %		70-130		P1F2404	06/24/21 12:30	06/25/21 06:01	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 06:01	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Stockpile
1F24002-19 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.3 %		80-120		P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	84.1 %		80-120		P1F2403	06/24/21 12:04	06/25/21 00:28	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1750	10.3	mg/kg dry	10	P1F3005	06/30/21 10:35	06/30/21 23:51	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1F2504	06/25/21 11:01	06/25/21 11:10	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	30.1	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 06:23	TPH 8015M	
>C12-C28	1580	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 06:23	TPH 8015M	
>C28-C35	270	25.8	mg/kg dry	1	P1F2404	06/24/21 12:30	06/25/21 06:23	TPH 8015M	
Surrogate: 1-Chlorooctane	124 %		70-130		P1F2404	06/24/21 12:30	06/25/21 06:23	TPH 8015M	
Surrogate: o-Terphenyl	133 %		70-130		P1F2404	06/24/21 12:30	06/25/21 06:23	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1880	25.8	mg/kg dry	1	[CALC]	06/24/21 12:30	06/25/21 06:23	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F2403 - * DEFAULT PREP *****

Blank (P1F2403-BLK1)

Prepared & Analyzed: 06/24/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.0991		"	0.120		82.6	80-120			

LCS (P1F2403-BS1)

Prepared & Analyzed: 06/24/21

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.105	0.00100	"	0.100		105	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.192	0.00200	"	0.200		96.0	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	80-120			

LCS Dup (P1F2403-BSD1)

Prepared & Analyzed: 06/24/21

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	7.28	20	
Toluene	0.113	0.00100	"	0.100		113	70-130	7.30	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	70-130	7.05	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	6.16	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	6.95	20	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120			

Calibration Blank (P1F2403-CCB1)

Prepared & Analyzed: 06/24/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	80-120			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F2403 - * DEFAULT PREP *****

Calibration Blank (P1F2403-CCB2)

Prepared & Analyzed: 06/24/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0960		"	0.120		80.0	80-120			

Calibration Blank (P1F2403-CCB3)

Prepared: 06/24/21 Analyzed: 06/25/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0976		"	0.120		81.4	80-120			

Calibration Check (P1F2403-CCV1)

Prepared & Analyzed: 06/24/21

Benzene	0.0953	0.00100	mg/kg wet	0.100		95.3	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.0982	0.00100	"	0.100		98.2	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		87.2	80-120			
Xylene (o)	0.0949	0.00100	"	0.100		94.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			

Calibration Check (P1F2403-CCV2)

Prepared & Analyzed: 06/24/21

Benzene	0.0996	0.00100	mg/kg wet	0.100		99.6	80-120			
Toluene	0.0991	0.00100	"	0.100		99.1	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		89.8	80-120			
Xylene (o)	0.0997	0.00100	"	0.100		99.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	75-125			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F2403 - * DEFAULT PREP *****

Calibration Check (P1F2403-CCV3)

Prepared: 06/24/21 Analyzed: 06/25/21

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		83.8	75-125			

Matrix Spike (P1F2403-MS1)

Source: 1F24002-01

Prepared: 06/24/21 Analyzed: 06/25/21

Benzene	0.0899	0.00106	mg/kg dry	0.106	ND	84.5	80-120			
Toluene	0.0700	0.00106	"	0.106	ND	65.8	80-120			QM-07
Ethylbenzene	0.0607	0.00106	"	0.106	ND	57.1	80-120			QM-07
Xylene (p/m)	0.128	0.00213	"	0.213	ND	60.2	80-120			QM-07
Xylene (o)	0.0790	0.00106	"	0.106	ND	74.2	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.121		"	0.128		94.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.128		87.4	80-120			

Matrix Spike Dup (P1F2403-MSD1)

Source: 1F24002-01

Prepared: 06/24/21 Analyzed: 06/25/21

Benzene	0.0992	0.00106	mg/kg dry	0.106	ND	93.2	80-120	9.84	20	
Toluene	0.0758	0.00106	"	0.106	ND	71.2	80-120	7.88	20	QM-07
Ethylbenzene	0.0661	0.00106	"	0.106	ND	62.2	80-120	8.57	20	QM-07
Xylene (p/m)	0.139	0.00213	"	0.213	ND	65.5	80-120	8.40	20	QM-07
Xylene (o)	0.0868	0.00106	"	0.106	ND	81.6	80-120	9.50	20	
Surrogate: 1,4-Difluorobenzene	0.127		"	0.128		99.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.128		94.8	80-120			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F2504 - * DEFAULT PREP *****

Blank (P1F2504-BLK1)	Prepared & Analyzed: 06/25/21									
% Moisture	ND	0.1	%							
Blank (P1F2504-BLK2)	Prepared & Analyzed: 06/25/21									
% Moisture	ND	0.1	%							
Duplicate (P1F2504-DUP1)	Source: 1F24003-01	Prepared & Analyzed: 06/25/21								
% Moisture	2.0	0.1	%		10.0			133	20	MS-1
Duplicate (P1F2504-DUP2)	Source: 1F24002-10	Prepared & Analyzed: 06/25/21								
% Moisture	10.0	0.1	%		2.0			133	20	MS-1
Duplicate (P1F2504-DUP3)	Source: 1F24004-12	Prepared & Analyzed: 06/25/21								
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P1F2504-DUP4)	Source: 1F24004-22	Prepared & Analyzed: 06/25/21								
% Moisture	9.0	0.1	%		11.0			20.0	20	
Duplicate (P1F2504-DUP5)	Source: 1F24005-15	Prepared & Analyzed: 06/25/21								
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P1F2504-DUP6)	Source: 1F24005-25	Prepared & Analyzed: 06/25/21								
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P1F2504-DUP7)	Source: 1F24005-40	Prepared & Analyzed: 06/25/21								
% Moisture	16.0	0.1	%		17.0			6.06	20	
Duplicate (P1F2504-DUP8)	Source: 1F24005-50	Prepared & Analyzed: 06/25/21								
% Moisture	16.0	0.1	%		16.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F3004 - * DEFAULT PREP *****

Blank (P1F3004-BLK1)		Prepared & Analyzed: 06/30/21								
Chloride	ND	1.00	mg/kg wet							
LCS (P1F3004-BS1)		Prepared & Analyzed: 06/30/21								
Chloride	407	1.00	mg/kg wet	400		102	90-110			
LCS Dup (P1F3004-BSD1)		Prepared & Analyzed: 06/30/21								
Chloride	408	1.00	mg/kg wet	400		102	90-110	0.452	20	
Calibration Check (P1F3004-CCV1)		Prepared & Analyzed: 06/30/21								
Chloride	19.3		mg/kg	20.0		96.5	90-110			
Calibration Check (P1F3004-CCV2)		Prepared & Analyzed: 06/30/21								
Chloride	19.3		mg/kg	20.0		96.7	90-110			
Calibration Check (P1F3004-CCV3)		Prepared & Analyzed: 06/30/21								
Chloride	19.4		mg/kg	20.0		97.2	90-110			
Matrix Spike (P1F3004-MS1)		Source: 1F23010-25		Prepared & Analyzed: 06/30/21						
Chloride	3790	11.1	mg/kg dry	1110	2680	100	80-120			
Matrix Spike (P1F3004-MS2)		Source: 1F24002-08		Prepared & Analyzed: 06/30/21						
Chloride	649	1.03	mg/kg dry	515	125	102	80-120			
Matrix Spike Dup (P1F3004-MSD1)		Source: 1F23010-25		Prepared & Analyzed: 06/30/21						
Chloride	3730	11.1	mg/kg dry	1110	2680	94.6	80-120	1.71	20	
Matrix Spike Dup (P1F3004-MSD2)		Source: 1F24002-08		Prepared & Analyzed: 06/30/21						
Chloride	666	1.03	mg/kg dry	515	125	105	80-120	2.55	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F3005 - * DEFAULT PREP *****

Blank (P1F3005-BLK1)		Prepared & Analyzed: 06/30/21								
Chloride	ND	1.00	mg/kg wet							
LCS (P1F3005-BS1)		Prepared & Analyzed: 06/30/21								
Chloride	409	1.00	mg/kg wet	400		102	90-110			
LCS Dup (P1F3005-BSD1)		Prepared & Analyzed: 06/30/21								
Chloride	405	1.00	mg/kg wet	400		101	90-110	0.944	20	
Calibration Check (P1F3005-CCV1)		Prepared & Analyzed: 06/30/21								
Chloride	19.4		mg/kg	20.0		97.2	90-110			
Calibration Check (P1F3005-CCV2)		Prepared: 06/30/21 Analyzed: 07/01/21								
Chloride	19.8		mg/kg	20.0		99.2	90-110			
Calibration Check (P1F3005-CCV3)		Prepared: 06/30/21 Analyzed: 07/01/21								
Chloride	19.5		mg/kg	20.0		97.3	90-110			
Matrix Spike (P1F3005-MS1)		Source: 1F24002-18		Prepared & Analyzed: 06/30/21						
Chloride	3470	10.8	mg/kg dry	1080	2250	113	80-120			
Matrix Spike (P1F3005-MS2)		Source: 1F25008-03		Prepared: 06/30/21 Analyzed: 07/01/21						
Chloride	507	1.03	mg/kg dry	515	ND	98.3	80-120			
Matrix Spike Dup (P1F3005-MSD1)		Source: 1F24002-18		Prepared & Analyzed: 06/30/21						
Chloride	3500	10.8	mg/kg dry	1080	2250	116	80-120	0.988	20	
Matrix Spike Dup (P1F3005-MSD2)		Source: 1F25008-03		Prepared: 06/30/21 Analyzed: 07/01/21						
Chloride	506	1.03	mg/kg dry	515	ND	98.2	80-120	0.0957	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F2404 - TX 1005

Blank (P1F2404-BLK1)

Prepared & Analyzed: 06/24/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	59.9		"	50.0		120	70-130			

LCS (P1F2404-BS1)

Prepared & Analyzed: 06/24/21

C6-C12	1110	25.0	mg/kg wet	1000		111	75-125			
>C12-C28	872	25.0	"	1000		87.2	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	61.5		"	50.0		123	70-130			

LCS Dup (P1F2404-BSD1)

Prepared & Analyzed: 06/24/21

C6-C12	1130	25.0	mg/kg wet	1000		113	75-125	1.21	20	
>C12-C28	881	25.0	"	1000		88.1	75-125	1.05	20	
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	60.1		"	50.0		120	70-130			

Calibration Check (P1F2404-CCV1)

Prepared & Analyzed: 06/24/21

C6-C12	547	25.0	mg/kg wet	500		109	85-115			
>C12-C28	488	25.0	"	500		97.6	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

Calibration Check (P1F2404-CCV2)

Prepared: 06/24/21 Analyzed: 06/25/21

C6-C12	565	25.0	mg/kg wet	500		113	85-115			
>C12-C28	489	25.0	"	500		97.8	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1F2404 - TX 1005

Calibration Check (P1F2404-CCV3)

Prepared: 06/24/21 Analyzed: 06/25/21

C6-C12	562	25.0	mg/kg wet	500		112	85-115			
>C12-C28	471	25.0	"	500		94.2	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	63.6		"	50.0		127	70-130			

Matrix Spike (P1F2404-MS1)

Source: 1F24002-19

Prepared: 06/24/21 Analyzed: 06/25/21

C6-C12	1140	25.8	mg/kg dry	1030	30.1	108	75-125			
>C12-C28	2130	25.8	"	1030	1580	53.7	75-125			QM-05
Surrogate: 1-Chlorooctane	119		"	103		115	70-130			
Surrogate: o-Terphenyl	62.6		"	51.5		121	70-130			

Matrix Spike Dup (P1F2404-MSD1)

Source: 1F24002-19

Prepared: 06/24/21 Analyzed: 06/25/21

C6-C12	1110	25.8	mg/kg dry	1030	30.1	105	75-125	2.41	20	
>C12-C28	2100	25.8	"	1030	1580	50.9	75-125	5.39	20	QM-05
Surrogate: 1-Chlorooctane	116		"	103		112	70-130			
Surrogate: o-Terphenyl	60.8		"	51.5		118	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

MS-1 Recovery of sample outside of historical limits due to matrix interference.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/1/2021

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Permian Basin Environmental Lab, L.P.

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



LTB CKTB WTB

NPDES: ☐

Laboratory Comments:		Temperature Upon Receipt:	
Sample Containers Intact?		UPS	FedEx
VOCs Free of Headspace?		DL	Long Star
Custody seals on container(s)		4/16/03	UC
Custody seals on cooler(s)			
Sample Hand Delivered			
Sat by Sampler/Client Rep?			
Sat by Courier?			



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Horizo 12 C7B

Project #: 14229 Project Loc:

Area: PO#

☐ **Bill Etech**

Project Manager: Tim McMin
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: P.O. Box 62228
City/State/Zip: Midland, Texas 79711
Sampler Signature: _____ email: tim@etechenv.com

Report Format: STANDARD: ☐ TRRP: ☐ NPDES: ☐

matt@etechenv.com

(lab use only)		ORDER #: 1F24002	
LAB # (lab use only)		FIELD CODE	
Start Depth		End Depth	
Date Sampled		Time Sampled	
No. of Containers		Ice	
HNO ₃		HCl	
H ₂ SO ₄		NaOH	
Na ₂ S ₂ O ₃		None	
Other (Specify)		Matrix	
DW=Drinking Water SL=Sludge		GW = Groundwater S=Soil/Solid	
NP=Non-PotableSpecify Other		TPH: 418.1 6015M 1005 1006	
Cations (Ca, Mg, Na, K)		Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	
SAR / ESP / CEC		Metals: As Ag Ba Cd Cr Pb Hg Se	
Volatiles		Semi volatiles	
BTEX 8021B, 5030 or BTEX 8260		RCI	
N.O.R.M.		Chlorides	
RUSH TAT(Pre-Schedule) 24, 48, 72 hrs		STANDARD TAT	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Special Instructions:	Laboratory Comments:
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Temperature Upon Receipt:	UPS	FedEx	Lone Star
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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Chorizo 12 CTB
Project Number: 14229
Location: New Mexico
Lab Order Number: 1G30003



Current Certification

Report Date: 08/11/21

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: Chorizo 12 CTB Project Number: 14229 Project Manager: Tim McMinn
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 2 @ 24"	1G30003-01	Soil	07/26/21 11:00	07-29-2021 15:40
South Wall @ 24"	1G30003-02	Soil	07/26/21 11:15	07-29-2021 15:40
Stockpile	1G30003-03	Soil	07/26/21 14:00	07-29-2021 15:40

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Chorizo 12 CTB
13000 West County Road 100	Project Number: 14229
Odessa TX, 79765	Project Manager: Tim McMinn

Bottom Hole 2 @ 24"
1G30003-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	2.84	1.11	mg/kg dry	1	PIH1003	08/10/21 09:34	08/10/21 15:22	EPA 300.0	
% Moisture	10.0	0.1	%	1	PIH0903	08/09/21 15:00	08/09/21 15:05	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Chorizo 12 CTB
13000 West County Road 100	Project Number: 14229
Odessa TX, 79765	Project Manager: Tim McMinn

South Wall @ 24"
1G30003-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	5.27	1.12	mg/kg dry	1	P1H1003	08/10/21 09:34	08/10/21 15:40	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1H0903	08/09/21 15:00	08/09/21 15:05	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Stockpile
1G30003-03 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	2300	11.2	mg/kg dry	10	PIH1003	08/10/21 09:34	08/10/21 15:59	EPA 300.0	
% Moisture	11.0	0.1	%	1	PIH0903	08/09/21 15:00	08/09/21 15:05	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	42.8	28.1	mg/kg dry	1	PIH0510	08/05/21 12:00	08/07/21 08:26	TPH 8015M	
>C12-C28	3120	28.1	mg/kg dry	1	PIH0510	08/05/21 12:00	08/07/21 08:26	TPH 8015M	
>C28-C35	698	28.1	mg/kg dry	1	PIH0510	08/05/21 12:00	08/07/21 08:26	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-130		PIH0510	08/05/21 12:00	08/07/21 08:26	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		PIH0510	08/05/21 12:00	08/07/21 08:26	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3860	28.1	mg/kg dry	1	[CALC]	08/05/21 12:00	08/07/21 08:26	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1H0903 - *** DEFAULT PREP ***										
Blank (P1H0903-BLK1)				Prepared & Analyzed: 08/09/21						
% Moisture	ND	0.1	%							
Blank (P1H0903-BLK2)				Prepared & Analyzed: 08/09/21						
% Moisture	ND	0.1	%							
Duplicate (P1H0903-DUP1)				Source: 1H04008-02		Prepared & Analyzed: 08/09/21				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P1H0903-DUP2)				Source: 1H05003-01		Prepared & Analyzed: 08/09/21				
% Moisture	5.0	0.1	%		4.0			22.2	20	R2
Duplicate (P1H0903-DUP3)				Source: 1H06010-04		Prepared & Analyzed: 08/09/21				
% Moisture	4.0	0.1	%		5.0			22.2	20	R2
Duplicate (P1H0903-DUP4)				Source: 1H06019-02		Prepared & Analyzed: 08/09/21				
% Moisture	ND	0.1	%		ND				20	
Batch P1H1003 - *** DEFAULT PREP ***										
Blank (P1H1003-BLK1)				Prepared & Analyzed: 08/10/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1H1003-BS1)				Prepared & Analyzed: 08/10/21						
Chloride	414	1.00	mg/kg wet	400		104	90-110			
LCS Dup (P1H1003-BSD1)				Prepared & Analyzed: 08/10/21						
Chloride	416	1.00	mg/kg wet	400		104	90-110	0.301	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H1003 - * DEFAULT PREP *****

Calibration Blank (P1H1003-CCB1)

Prepared & Analyzed: 08/10/21

Chloride	-0.215		mg/kg wet							
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Calibration Check (P1H1003-CCV1)

Prepared & Analyzed: 08/10/21

Chloride	19.9		mg/kg	20.0		99.5	90-110			
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Matrix Spike (P1H1003-MS1)

Source: 1G30002-03

Prepared & Analyzed: 08/10/21

Chloride	3780	28.1	mg/kg dry	2810	872	104	80-120			
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Matrix Spike Dup (P1H1003-MSD1)

Source: 1G30002-03

Prepared & Analyzed: 08/10/21

Chloride	3790	28.1	mg/kg dry	2810	872	104	80-120	0.0742	20	
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Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H0510 - TX 1005

Blank (P1H0510-BLK1)

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	59.7		"	50.0		119	70-130			

LCS (P1H0510-BS1)

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	1100	25.0	mg/kg wet	1000		110	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	61.0		"	50.0		122	70-130			

LCS Dup (P1H0510-BSD1)

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	1100	25.0	mg/kg wet	1000		110	75-125	0.851	20	
>C12-C28	1100	25.0	"	1000		110	75-125	0.953	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

Calibration Check (P1H0510-CCV1)

Prepared: 08/05/21 Analyzed: 08/06/21

C6-C12	549	25.0	mg/kg wet	500		110	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			

Calibration Check (P1H0510-CCV2)

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	547	25.0	mg/kg wet	500		109	85-115			
>C12-C28	554	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	58.7		"	50.0		117	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H0510 - TX 1005

Calibration Check (P1H0510-CCV3)

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	516	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	56.4		"	50.0		113	70-130			

Matrix Spike (P1H0510-MS1)

Source: 1G30004-03

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	964	25.3	mg/kg dry	1010	117	83.8	75-125			
>C12-C28	2800	25.3	"	1010	5540	NR	75-125			QM-05
Surrogate: 1-Chlorooctane	94.3		"	101		93.4	70-130			
Surrogate: o-Terphenyl	59.9		"	50.5		119	70-130			

Matrix Spike Dup (P1H0510-MSD1)

Source: 1G30004-03

Prepared: 08/05/21 Analyzed: 08/07/21

C6-C12	972	25.3	mg/kg dry	1010	117	84.6	75-125	0.972	20	
>C12-C28	2990	25.3	"	1010	5540	NR	75-125	NR	20	QM-05
Surrogate: 1-Chlorooctane	97.3		"	101		96.3	70-130			
Surrogate: o-Terphenyl	61.4		"	50.5		122	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Notes and Definitions

ROI Received on Ice

R2 The RPD exceeded the acceptance limit.

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

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

8/11/2021

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Permian Basin Environmental Lab, L.P.

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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Centennial Phone: 432-661-4184

Project Manager: Tim McIlm

Company Name: Etch Environmental and Safety Solutions, Inc.

Company Address: 13000 W CR 100

City/State/Zip: Odessa, Texas 79765

Telephone No: (432) 230-3763

Sampler Signature: *Blalst for B.L.*

Fax No:

e-mail: Matt@etechnv.com

tim@etechnv.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: *Choizo 12 CTB*

Project #: *14229*

Project Loc: *New Mexico - Lea County*

PO #: *99087*

ORDER #: *1630003*

(lab use only)

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 *8015M* 8015B

TPH: TX 1005 Ext TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides E 300

RUSH TAT (Pra-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

Bill to Centennial Resource

Relinquished by:

Blalst

Date: 7.27.21 Time: 3:40p

Received by:

Blalst

Date: 7.27.21 Time: 1540

Received by:

Blalst

Received by:

Blalst

Received by:

Blalst

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt?

Advised?

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



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Chorizo 12 CTB
Project Number: 14229
Location: New Mexico
Lab Order Number: 1H17009



Current Certification

Report Date: 08/26/21

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: Chorizo 12 CTB Project Number: 14229 Project Manager: Tim McMinn
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 17 @ 1'	1H17009-01	Soil	08/11/21 08:45	08-16-2021 12:44
South Wall 2 @ 1'	1H17009-02	Soil	08/11/21 08:30	08-16-2021 12:44

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Bottom Hole 17 @ 1'

1H17009-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	O-09
Toluene	ND	0.0111	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.8 %		80-120		P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	107 %		80-120		P1H2301	08/23/21 11:23	08/23/21 16:57	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	28.8	1.11	mg/kg dry	1	P1H2413	08/24/21 16:23	08/25/21 10:04	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1H2302	08/23/21 11:53	08/23/21 11:59	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P1H2006	08/20/21 09:45	08/22/21 14:58	TPH 8015M	
>C12-C28	37.2	27.8	mg/kg dry	1	P1H2006	08/20/21 09:45	08/22/21 14:58	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1H2006	08/20/21 09:45	08/22/21 14:58	TPH 8015M	
Surrogate: 1-Chlorooctane	94.3 %		70-130		P1H2006	08/20/21 09:45	08/22/21 14:58	TPH 8015M	
Surrogate: o-Terphenyl	104 %		70-130		P1H2006	08/20/21 09:45	08/22/21 14:58	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	37.2	27.8	mg/kg dry	1	[CALC]	08/20/21 09:45	08/22/21 14:58	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

South Wall 2 @ 1'
1H17009-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	O-09
Toluene	ND	0.0112	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	103 %		80-120		P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	111 %		80-120		P1H2301	08/23/21 11:23	08/23/21 17:18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.7	1.12	mg/kg dry	1	P1H2413	08/24/21 16:23	08/25/21 10:24	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1H2302	08/23/21 11:53	08/23/21 11:59	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1H2006	08/20/21 09:45	08/22/21 15:21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1H2006	08/20/21 09:45	08/22/21 15:21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1H2006	08/20/21 09:45	08/22/21 15:21	TPH 8015M	
Surrogate: 1-Chlorooctane	92.1 %		70-130		P1H2006	08/20/21 09:45	08/22/21 15:21	TPH 8015M	
Surrogate: o-Terphenyl	103 %		70-130		P1H2006	08/20/21 09:45	08/22/21 15:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	08/20/21 09:45	08/22/21 15:21	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H2301 - * DEFAULT PREP *****

Blank (P1H2301-BLK1)

Prepared & Analyzed: 08/23/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	0.00269	0.00100	"							O-09
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.2	80-120			

LCS (P1H2301-BS1)

Prepared & Analyzed: 08/23/21

Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130			
Toluene	0.113	0.00100	"	0.100		113	70-130			
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130			
Xylene (p/m)	0.222	0.00200	"	0.200		111	70-130			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.1	80-120			

LCS Dup (P1H2301-BSD1)

Prepared & Analyzed: 08/23/21

Benzene	0.0899	0.00100	mg/kg wet	0.100		89.9	70-130	17.4	20	
Toluene	0.0942	0.00100	"	0.100		94.2	70-130	18.1	20	
Ethylbenzene	0.0909	0.00100	"	0.100		90.9	70-130	17.6	20	
Xylene (p/m)	0.188	0.00200	"	0.200		93.9	70-130	16.7	20	
Xylene (o)	0.0810	0.00100	"	0.100		81.0	70-130	14.0	20	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	80-120			

Calibration Check (P1H2301-CCV1)

Prepared & Analyzed: 08/23/21

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0873	0.00100	"	0.100		87.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H2301 - * DEFAULT PREP *****

Calibration Check (P1H2301-CCV2)

Prepared & Analyzed: 08/23/21

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.4	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

Calibration Check (P1H2301-CCV3)

Prepared & Analyzed: 08/23/21

Benzene	0.0974	0.00100	mg/kg wet	0.100		97.4	80-120			
Toluene	0.0977	0.00100	"	0.100		97.7	80-120			
Ethylbenzene	0.0876	0.00100	"	0.100		87.6	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.5	80-120			
Xylene (o)	0.0809	0.00100	"	0.100		80.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.8	75-125			

Matrix Spike (P1H2301-MS1)

Source: 1H20001-01

Prepared & Analyzed: 08/23/21

Benzene	0.0879	0.00116	mg/kg dry	0.116	ND	75.6	80-120			QM-05
Toluene	0.0775	0.00116	"	0.116	ND	66.7	80-120			O-09, QM-05
Ethylbenzene	0.0696	0.00116	"	0.116	ND	59.8	80-120			QM-05
Xylene (p/m)	0.141	0.00233	"	0.233	ND	60.8	80-120			QM-05
Xylene (o)	0.0613	0.00116	"	0.116	ND	52.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.140		"	0.140		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.140		96.8	80-120			

Matrix Spike Dup (P1H2301-MSD1)

Source: 1H20001-01

Prepared & Analyzed: 08/23/21

Benzene	0.0876	0.00116	mg/kg dry	0.116	ND	75.3	80-120	0.384	20	QM-05
Toluene	0.0810	0.00116	"	0.116	ND	69.7	80-120	4.43	20	O-09, QM-05
Ethylbenzene	0.0764	0.00116	"	0.116	ND	65.7	80-120	9.38	20	QM-05
Xylene (p/m)	0.157	0.00233	"	0.233	ND	67.3	80-120	10.2	20	QM-05
Xylene (o)	0.0675	0.00116	"	0.116	ND	58.0	80-120	9.53	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.137		"	0.140		97.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.141		"	0.140		101	80-120			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H2302 - * DEFAULT PREP *****

Blank (P1H2302-BLK1)	Prepared & Analyzed: 08/23/21									
% Moisture	ND	0.1	%							
Blank (P1H2302-BLK2)	Prepared & Analyzed: 08/23/21									
% Moisture	ND	0.1	%							
Blank (P1H2302-BLK3)	Prepared & Analyzed: 08/23/21									
% Moisture	ND	0.1	%							
Blank (P1H2302-BLK4)	Prepared & Analyzed: 08/23/21									
% Moisture	ND	0.1	%							
Duplicate (P1H2302-DUP1)	Source: 1H17008-05		Prepared & Analyzed: 08/23/21							
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P1H2302-DUP2)	Source: 1H17008-15		Prepared & Analyzed: 08/23/21							
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P1H2302-DUP3)	Source: 1H17010-10		Prepared & Analyzed: 08/23/21							
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P1H2302-DUP4)	Source: 1H17010-20		Prepared & Analyzed: 08/23/21							
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P1H2302-DUP5)	Source: 1H17010-35		Prepared & Analyzed: 08/23/21							
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P1H2302-DUP6)	Source: 1H17010-45		Prepared & Analyzed: 08/23/21							
% Moisture	5.0	0.1	%		5.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1H2302 - *** DEFAULT PREP ***										
Duplicate (P1H2302-DUP7)	Source: 1H17011-08			Prepared & Analyzed: 08/23/21						
% Moisture	29.0	0.1	%		29.0			0.00	20	
Duplicate (P1H2302-DUP8)	Source: 1H17011-18			Prepared & Analyzed: 08/23/21						
% Moisture	14.0	0.1	%		14.0			0.00	20	
Batch P1H2413 - *** DEFAULT PREP ***										
Blank (P1H2413-BLK1)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	ND	1.00	mg/kg wet							
LCS (P1H2413-BS1)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	423	1.00	mg/kg wet	400		106	90-110			
LCS Dup (P1H2413-BSD1)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	422	1.00	mg/kg wet	400		105	90-110	0.350	20	
Calibration Blank (P1H2413-CCB1)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	0.00		mg/kg wet							
Calibration Blank (P1H2413-CCB2)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	0.00		mg/kg wet							
Calibration Check (P1H2413-CCV1)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	21.0		mg/kg	20.0		105	90-110			
Calibration Check (P1H2413-CCV2)	Prepared: 08/24/21 Analyzed: 08/25/21									
Chloride	21.2		mg/kg	20.0		106	90-110			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H2413 - * DEFAULT PREP *****

Calibration Check (P1H2413-CCV3)

Prepared: 08/24/21 Analyzed: 08/25/21

Chloride	20.9		mg/kg	20.0		105	90-110		
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Matrix Spike (P1H2413-MS1)

Source: 1H18001-03

Prepared: 08/24/21 Analyzed: 08/25/21

Chloride	4870	10.4	mg/kg dry	1040	3820	100	80-120		
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Matrix Spike (P1H2413-MS2)

Source: 1H17009-02

Prepared: 08/24/21 Analyzed: 08/25/21

Chloride	570	1.12	mg/kg dry	562	10.7	99.6	80-120		
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Matrix Spike Dup (P1H2413-MSD1)

Source: 1H18001-03

Prepared: 08/24/21 Analyzed: 08/25/21

Chloride	4870	10.4	mg/kg dry	1040	3820	100	80-120	0.0364	20
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Matrix Spike Dup (P1H2413-MSD2)

Source: 1H17009-02

Prepared: 08/24/21 Analyzed: 08/25/21

Chloride	578	1.12	mg/kg dry	562	10.7	101	80-120	1.42	20
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Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H2006 - TX 1005

Blank (P1H2006-BLK1)

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	63.5		"	50.0		127	70-130			

LCS (P1H2006-BS1)

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	1060	25.0	mg/kg wet	1000		106	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	63.0		"	50.0		126	70-130			

LCS Dup (P1H2006-BSD1)

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	1070	25.0	mg/kg wet	1000		107	75-125	0.843	20	
>C12-C28	1150	25.0	"	1000		115	75-125	1.27	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	62.1		"	50.0		124	70-130			

Calibration Check (P1H2006-CCV1)

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	546	25.0	mg/kg wet	500		109	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.9		"	50.0		130	70-130			

Calibration Check (P1H2006-CCV2)

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	542	25.0	mg/kg wet	500		108	85-115			
>C12-C28	528	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	63.3		"	50.0		127	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1H2006 - TX 1005

Calibration Check (P1H2006-CCV3)

Prepared: 08/20/21 Analyzed: 08/23/21

C6-C12	533	25.0	mg/kg wet	500		107	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	65.0		"	50.0		130	70-130			

Matrix Spike (P1H2006-MS1)

Source: 1H19005-01

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	912	28.1	mg/kg dry	1120	17.6	79.6	75-125			
>C12-C28	898	28.1	"	1120	345	49.2	75-125			S-GC
Surrogate: 1-Chlorooctane	137		"	112		122	70-130			
Surrogate: o-Terphenyl	54.7		"	56.2		97.4	70-130			

Matrix Spike Dup (P1H2006-MSD1)

Source: 1H19005-01

Prepared: 08/20/21 Analyzed: 08/22/21

C6-C12	931	28.1	mg/kg dry	1120	17.6	81.3	75-125	2.12	20	
>C12-C28	935	28.1	"	1120	345	52.5	75-125	6.58	20	S-GC
Surrogate: 1-Chlorooctane	124		"	112		111	70-130			
Surrogate: o-Terphenyl	57.2		"	56.2		102	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

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

O-09 This compound is a common laboratory contaminant. Compound also present in method blank.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

8/26/2021

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

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

Permian Basin Environmental Lab, L.P.

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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Tim McMinin

Company Name Etech Environmental and Safety Solutions, Inc.

Company Address: 13000 W CR 100

City/State/Zip: Odessa, Texas 79765

Telephone No: (432)230-3763

Sampler Signature: Mary Jones

Fax No: _____
e-mail: Matt@etechenv.com
[tim\(t\)/etechenv.com](mailto:tim(t)/etechenv.com)

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Chorizo 12 CTB
Project #: 14229
Project Loc: Lea County, NM

Project #: 19667

PO #: 99087

Page 14 of 14

LAB # (lab use only)		ORDER #: 1H17009	
FIELD CODE		Beginning Depth	Ending Depth
1 Bottom Hole 17 @ 1'		8/11/21	845
2 South Well 2 @ 1'		8/11/21	830
Date Sampled		Time Sampled	
Field Filtered		Total #. of Containers	
Ice		HNO ₃	
HCl		H ₂ SO ₄	
NaOH		Na ₂ S ₂ O ₃	
None		Other (Specify)	
DW=Drinking Water SL=Sludge		GW = Groundwater S=Soil/Solid	
NP=Non-Potable Specify Other		TPH: 418.1 8015M 8015B	
TPH: TX 1005 Ext TX 1006		Cations (Ca, Mg, Na, K)	
Anions (Cl, SO ₄ , Alkalinity)		SAR / ESP / CEC	
Metals: As Ag Ba Cd Cr Pb Hg Se		Volatiles	
Semivolatiles		BTEX 8021B/5030 or BTEX 8260	
RCI		N.O.R.M.	
Chlorides E 300		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
Standard TAT			

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



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Chorizo 12 CTB

Project Number: 14229

Location: New Mexico

Lab Order Number: 1115014



Current Certification

Report Date: 09/29/21

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Perimeter #1	1I15014-01	Soil	09/15/21 08:15	09-15-2021 14:31
Perimeter #2	1I15014-02	Soil	09/15/21 08:20	09-15-2021 14:31
Perimeter #3	1I15014-03	Soil	09/15/21 08:50	09-15-2021 14:31
Perimeter #4	1I15014-04	Soil	09/15/21 08:30	09-15-2021 14:31
Perimeter #5	1I15014-05	Soil	09/15/21 08:58	09-15-2021 14:31
Perimeter #6	1I15014-06	Soil	09/15/21 09:00	09-15-2021 14:31
Perimeter #7	1I15014-07	Soil	09/15/21 09:20	09-15-2021 14:31
Perimeter #8	1I15014-08	Soil	09/15/21 09:15	09-15-2021 14:31
Perimeter #9	1I15014-09	Soil	09/15/21 09:28	09-15-2021 14:31
Perimeter #10	1I15014-10	Soil	09/15/21 09:40	09-15-2021 14:31
Perimeter #11	1I15014-11	Soil	09/15/21 09:35	09-15-2021 14:31

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #1
1115014-01 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	109 %		80-120		P111702	09/17/21 09:47	09/17/21 14:00	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.0	1.08	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 16:21	EPA 300.0	
% Moisture	7.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 19:25	TPH 8015M	
>C12-C28	47.0	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 19:25	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 19:25	TPH 8015M	
Surrogate: 1-Chlorooctane	94.1 %		70-130		P111708	09/17/21 13:01	09/17/21 19:25	TPH 8015M	
Surrogate: o-Terphenyl	105 %		70-130		P111708	09/17/21 13:01	09/17/21 19:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	47.0	26.9	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 19:25	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #2
1115014-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	118 %		80-120		P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	112 %		80-120		P111702	09/17/21 09:47	09/17/21 14:22	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.22	1.06	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 17:54	EPA 300.0	
% Moisture	6.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 19:48	TPH 8015M	
>C12-C28	35.4	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 19:48	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 19:48	TPH 8015M	
Surrogate: 1-Chlorooctane	99.4 %		70-130		P111708	09/17/21 13:01	09/17/21 19:48	TPH 8015M	
Surrogate: o-Terphenyl	110 %		70-130		P111708	09/17/21 13:01	09/17/21 19:48	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35.4	26.6	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 19:48	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #3
1115014-03 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	106 %		80-120		P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	107 %		80-120		P111702	09/17/21 09:47	09/17/21 14:43	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.8	1.08	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 18:13	EPA 300.0	
% Moisture	7.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 20:55	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 20:55	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 20:55	TPH 8015M	
Surrogate: 1-Chlorooctane	94.6 %		70-130		P111708	09/17/21 13:01	09/17/21 20:55	TPH 8015M	
Surrogate: o-Terphenyl	105 %		70-130		P111708	09/17/21 13:01	09/17/21 20:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 20:55	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Perimeter #4
1115014-04 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	107 %		80-120		P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %		80-120		P111702	09/17/21 09:47	09/17/21 15:04	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	28.3	1.06	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 18:31	EPA 300.0	
% Moisture	6.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 21:17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 21:17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 21:17	TPH 8015M	
Surrogate: 1-Chlorooctane	97.9 %		70-130		P111708	09/17/21 13:01	09/17/21 21:17	TPH 8015M	
Surrogate: o-Terphenyl	109 %		70-130		P111708	09/17/21 13:01	09/17/21 21:17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 21:17	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Perimeter #5
1115014-05 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	109 %		80-120		P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	113 %		80-120		P111702	09/17/21 09:47	09/17/21 15:26	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	427	1.10	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 18:50	EPA 300.0	
% Moisture	9.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 21:39	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 21:39	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 21:39	TPH 8015M	
Surrogate: 1-Chlorooctane	94.9 %		70-130		P111708	09/17/21 13:01	09/17/21 21:39	TPH 8015M	
Surrogate: o-Terphenyl	106 %		70-130		P111708	09/17/21 13:01	09/17/21 21:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 21:39	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #6
1115014-06 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	110 %		80-120		P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	113 %		80-120		P111702	09/17/21 09:47	09/17/21 15:47	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	46.2	1.08	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 19:08	EPA 300.0	
% Moisture	7.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:01	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:01	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:01	TPH 8015M	
Surrogate: 1-Chlorooctane	96.8 %		70-130		P111708	09/17/21 13:01	09/17/21 22:01	TPH 8015M	
Surrogate: o-Terphenyl	108 %		70-130		P111708	09/17/21 13:01	09/17/21 22:01	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 22:01	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #7
1115014-07 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	108 %		80-120		P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P111702	09/17/21 09:47	09/17/21 16:09	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	402	1.08	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 19:27	EPA 300.0	
% Moisture	7.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:24	TPH 8015M	
>C12-C28	29.1	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:24	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:24	TPH 8015M	
Surrogate: 1-Chlorooctane	98.1 %		70-130		P111708	09/17/21 13:01	09/17/21 22:24	TPH 8015M	
Surrogate: o-Terphenyl	110 %		70-130		P111708	09/17/21 13:01	09/17/21 22:24	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.1	26.9	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 22:24	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #8
1115014-08 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	
Toluene	0.00156	0.00108	mg/kg dry	1	P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	112 %		80-120		P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	107 %		80-120		P112804	09/28/21 15:50	09/28/21 18:49	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.08	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 19:45	EPA 300.0	
% Moisture	7.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:46	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:46	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 22:46	TPH 8015M	
Surrogate: 1-Chlorooctane	97.1 %		70-130		P111708	09/17/21 13:01	09/17/21 22:46	TPH 8015M	
Surrogate: o-Terphenyl	109 %		70-130		P111708	09/17/21 13:01	09/17/21 22:46	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 22:46	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Perimeter #9
1115014-09 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	121 %		80-120		P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	114 %		80-120		P111702	09/17/21 09:47	09/17/21 17:46	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	179	1.05	mg/kg dry	1	P111606	09/16/21 14:28	09/16/21 20:04	EPA 300.0	
% Moisture	5.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:08	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:08	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:08	TPH 8015M	
Surrogate: 1-Chlorooctane	97.3 %		70-130		P111708	09/17/21 13:01	09/17/21 23:08	TPH 8015M	
Surrogate: o-Terphenyl	109 %		70-130		P111708	09/17/21 13:01	09/17/21 23:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 23:08	calc	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #10
1115014-10 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	110 %		80-120		P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	109 %		80-120		P111702	09/17/21 09:47	09/17/21 18:07	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2050	10.5	mg/kg dry	10	P111606	09/16/21 14:28	09/16/21 20:22	EPA 300.0	
% Moisture	5.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:31	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:31	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:31	TPH 8015M	
Surrogate: 1-Chlorooctane	101 %		70-130		P111708	09/17/21 13:01	09/17/21 23:31	TPH 8015M	
Surrogate: o-Terphenyl	112 %		70-130		P111708	09/17/21 13:01	09/17/21 23:31	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 23:31	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Perimeter #11
1115014-11 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	116 %		80-120		P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	111 %		80-120		P111702	09/17/21 09:47	09/17/21 19:11	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	118	1.06	mg/kg dry	1	P111608	09/16/21 16:58	09/16/21 19:44	EPA 300.0	
% Moisture	6.0	0.1	%	1	P111707	09/17/21 11:26	09/17/21 11:34	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:53	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:53	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P111708	09/17/21 13:01	09/17/21 23:53	TPH 8015M	
Surrogate: 1-Chlorooctane	94.2 %		70-130		P111708	09/17/21 13:01	09/17/21 23:53	TPH 8015M	
Surrogate: o-Terphenyl	106 %		70-130		P111708	09/17/21 13:01	09/17/21 23:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/17/21 13:01	09/17/21 23:53	calc	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111702 - * DEFAULT PREP *****

Blank (P111702-BLK1)

Prepared & Analyzed: 09/17/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	80-120			

LCS (P111702-BS1)

Prepared & Analyzed: 09/17/21

Benzene	0.0971	0.00100	mg/kg wet	0.100		97.1	70-130			
Toluene	0.0971	0.00100	"	0.100		97.1	70-130			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	70-130			
Xylene (p/m)	0.188	0.00200	"	0.200		93.9	70-130			
Xylene (o)	0.0972	0.00100	"	0.100		97.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	80-120			

LCS Dup (P111702-BS1)

Prepared & Analyzed: 09/17/21

Benzene	0.0959	0.00100	mg/kg wet	0.100		95.9	70-130	1.23	20	
Toluene	0.0957	0.00100	"	0.100		95.7	70-130	1.54	20	
Ethylbenzene	0.0910	0.00100	"	0.100		91.0	70-130	2.18	20	
Xylene (p/m)	0.182	0.00200	"	0.200		91.0	70-130	3.08	20	
Xylene (o)	0.0952	0.00100	"	0.100		95.2	70-130	2.09	20	
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			

Calibration Blank (P111702-CCB1)

Prepared & Analyzed: 09/17/21

Benzene	0.00		mg/kg wet							
Toluene	2.23		"							
Ethylbenzene	0.270		"							
Xylene (p/m)	0.520		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111702 - * DEFAULT PREP *****

Calibration Blank (P111702-CCB2)

Prepared & Analyzed: 09/17/21

Benzene	0.00		mg/kg wet							
Toluene	4.64		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		113	80-120			

Calibration Blank (P111702-CCB3)

Prepared & Analyzed: 09/17/21

Benzene	0.00		mg/kg wet							
Toluene	2.87		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	80-120			

Calibration Check (P111702-CCV1)

Prepared & Analyzed: 09/17/21

Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		107	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P111702-CCV2)

Prepared & Analyzed: 09/17/21

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.6	75-125			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111702 - * DEFAULT PREP *****

Calibration Check (P111702-CCV3)				Prepared & Analyzed: 09/17/21						
Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Matrix Spike (P111702-MS1)				Source: 1115014-02	Prepared & Analyzed: 09/17/21						
Benzene	0.0959	0.00106	mg/kg dry	0.106	ND	90.1	80-120				
Toluene	0.0674	0.00106	"	0.106	ND	63.3	80-120				QM-07
Ethylbenzene	0.0701	0.00106	"	0.106	ND	65.9	80-120				QM-07
Xylene (p/m)	0.135	0.00213	"	0.213	ND	63.4	80-120				QM-07
Xylene (o)	0.0911	0.00106	"	0.106	ND	85.7	80-120				
Surrogate: 4-Bromofluorobenzene	0.145		"	0.128		114	80-120				
Surrogate: 1,4-Difluorobenzene	0.137		"	0.128		107	80-120				

Matrix Spike Dup (P111702-MSD1)				Source: 1115014-02	Prepared & Analyzed: 09/17/21						
Benzene	0.0925	0.00106	mg/kg dry	0.106	ND	86.9	80-120	3.59	20		
Toluene	0.0662	0.00106	"	0.106	ND	62.2	80-120	1.80	20		QM-07
Ethylbenzene	0.0668	0.00106	"	0.106	ND	62.8	80-120	4.85	20		QM-07
Xylene (p/m)	0.130	0.00213	"	0.213	ND	61.1	80-120	3.70	20		QM-07
Xylene (o)	0.0865	0.00106	"	0.106	ND	81.3	80-120	5.24	20		
Surrogate: 1,4-Difluorobenzene	0.132		"	0.128		103	80-120				
Surrogate: 4-Bromofluorobenzene	0.136		"	0.128		107	80-120				

Batch P112804 - * DEFAULT PREP *****

Blank (P112804-BLK1)			Prepared & Analyzed: 09/28/21			
Benzene	ND	0.00100	mg/kg wet			
Toluene	ND	0.00100	"			
Ethylbenzene	ND	0.00100	"			
Xylene (p/m)	ND	0.00200	"			
Xylene (o)	ND	0.00100	"			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120	110	80-120
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120	104	80-120

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P112804 - * DEFAULT PREP *****

LCS (P112804-BS1)

Prepared & Analyzed: 09/28/21

Benzene	0.0930	0.00100	mg/kg wet	0.100		93.0	70-130			
Toluene	0.0896	0.00100	"	0.100		89.6	70-130			
Ethylbenzene	0.0852	0.00100	"	0.100		85.2	70-130			
Xylene (p/m)	0.171	0.00200	"	0.200		85.5	70-130			
Xylene (o)	0.0864	0.00100	"	0.100		86.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

LCS Dup (P112804-BSD1)

Prepared & Analyzed: 09/28/21

Benzene	0.0997	0.00100	mg/kg wet	0.100		99.7	70-130	6.96	20	
Toluene	0.0960	0.00100	"	0.100		96.0	70-130	6.99	20	
Ethylbenzene	0.0906	0.00100	"	0.100		90.6	70-130	6.11	20	
Xylene (p/m)	0.180	0.00200	"	0.200		90.1	70-130	5.17	20	
Xylene (o)	0.0923	0.00100	"	0.100		92.3	70-130	6.64	20	
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.3	80-120			

Calibration Blank (P112804-CCB1)

Prepared & Analyzed: 09/28/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.420		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			

Calibration Blank (P112804-CCB2)

Prepared & Analyzed: 09/28/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.420		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	80-120			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P112804 - * DEFAULT PREP *****

Calibration Blank (P112804-CCB3)

Prepared: 09/28/21 Analyzed: 09/29/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.430		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	80-120			

Calibration Check (P112804-CCV1)

Prepared & Analyzed: 09/28/21

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P112804-CCV2)

Prepared & Analyzed: 09/28/21

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P112804-CCV3)

Prepared: 09/28/21 Analyzed: 09/29/21

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P112804 - * DEFAULT PREP *****

Matrix Spike (P112804-MS1)		Source: 1124011-14		Prepared: 09/28/21		Analyzed: 09/29/21				
Benzene	0.101	0.00103	mg/kg dry	0.103	ND	98.4	80-120			
Toluene	0.0928	0.00103	"	0.103	ND	90.1	80-120			
Ethylbenzene	0.0787	0.00103	"	0.103	ND	76.3	80-120			QM-07
Xylene (p/m)	0.161	0.00206	"	0.206	ND	77.9	80-120			QM-07
Xylene (o)	0.0882	0.00103	"	0.103	ND	85.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.124		95.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.124		101	80-120			

Matrix Spike Dup (P112804-MSD1)		Source: 1124011-14		Prepared: 09/28/21		Analyzed: 09/29/21				
Benzene	0.100	0.00103	mg/kg dry	0.103	ND	97.3	80-120	1.13	20	
Toluene	0.0937	0.00103	"	0.103	ND	90.9	80-120	0.961	20	
Ethylbenzene	0.0817	0.00103	"	0.103	ND	79.2	80-120	3.74	20	QM-07
Xylene (p/m)	0.159	0.00206	"	0.206	ND	77.4	80-120	0.709	20	QM-07
Xylene (o)	0.0893	0.00103	"	0.103	ND	86.6	80-120	1.28	20	
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.124		93.9	80-120			

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E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111606 - * DEFAULT PREP *****

Blank (P111606-BLK1)				Prepared & Analyzed: 09/16/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P111606-BS1)				Prepared & Analyzed: 09/16/21						
Chloride	410	1.00	mg/kg wet	400		103	90-110			
LCS Dup (P111606-BSD1)				Prepared & Analyzed: 09/16/21						
Chloride	408	1.00	mg/kg wet	400		102	90-110	0.430	10	
Calibration Blank (P111606-CCB1)				Prepared & Analyzed: 09/16/21						
Chloride	-0.0290		mg/kg wet							
Calibration Check (P111606-CCV1)				Prepared & Analyzed: 09/16/21						
Chloride	20.9		mg/kg	20.0		104	90-110			
Calibration Check (P111606-CCV2)				Prepared & Analyzed: 09/16/21						
Chloride	20.9		mg/kg	20.0		104	90-110			
Matrix Spike (P111606-MS1)		Source: 1115014-01		Prepared & Analyzed: 09/16/21						
Chloride	545	1.08	mg/kg dry	538	10.0	99.6	80-120			
Matrix Spike Dup (P111606-MSD1)		Source: 1115014-01		Prepared & Analyzed: 09/16/21						
Chloride	536	1.08	mg/kg dry	538	10.0	97.9	80-120	1.66	20	

Batch P111608 - * DEFAULT PREP *****

Blank (P111608-BLK1)				Prepared & Analyzed: 09/16/21						
Chloride	ND	1.00	mg/kg wet							

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E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111608 - * DEFAULT PREP *****

LCS (P111608-BS1) Prepared & Analyzed: 09/16/21

Chloride	406	1.00	mg/kg wet	400		101	90-110			
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LCS Dup (P111608-BSD1) Prepared & Analyzed: 09/16/21

Chloride	415	1.00	mg/kg wet	400		104	90-110	2.15	10	
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Calibration Blank (P111608-CCB1) Prepared & Analyzed: 09/16/21

Chloride	0.00		mg/kg wet							
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Calibration Blank (P111608-CCB2) Prepared & Analyzed: 09/16/21

Chloride	-0.128		mg/kg wet							
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Calibration Check (P111608-CCV1) Prepared & Analyzed: 09/16/21

Chloride	20.5		mg/kg	20.0		103	90-110			
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Calibration Check (P111608-CCV2) Prepared: 09/16/21 Analyzed: 09/17/21

Chloride	20.1		mg/kg	20.0		100	90-110			
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Calibration Check (P111608-CCV3) Prepared: 09/16/21 Analyzed: 09/17/21

Chloride	20.0		mg/kg	20.0		100	90-110			
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Matrix Spike (P111608-MS1) Source: 1115014-11 Prepared & Analyzed: 09/16/21

Chloride	669	1.06	mg/kg dry	532	118	104	80-120			
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Matrix Spike (P111608-MS2) Source: 1115017-02 Prepared & Analyzed: 09/16/21

Chloride	20600	57.5	mg/kg dry	5750	12700	137	80-120			
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Matrix Spike Dup (P111608-MSD1) Source: 1115014-11 Prepared & Analyzed: 09/16/21

Chloride	631	1.06	mg/kg dry	532	118	96.5	80-120	5.79	20	
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Permian Basin Environmental Lab, L.P.

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13000 West County Road 100
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Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111608 - * DEFAULT PREP *****

Matrix Spike Dup (P111608-MSD2)	Source: 1115017-02			Prepared & Analyzed: 09/16/21						
Chloride	16800	57.5	mg/kg dry	5750	12700	72.0	80-120	19.9	20	

Batch P111707 - * DEFAULT PREP *****

Blank (P111707-BLK1)	Prepared & Analyzed: 09/17/21									
% Moisture	ND	0.1	%							
Blank (P111707-BLK2)	Prepared & Analyzed: 09/17/21									
% Moisture	ND	0.1	%							
Duplicate (P111707-DUP1)	Source: 1115014-10			Prepared & Analyzed: 09/17/21						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P111707-DUP2)	Source: 1115015-07			Prepared & Analyzed: 09/17/21						
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P111707-DUP3)	Source: 1115015-24			Prepared & Analyzed: 09/17/21						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P111707-DUP4)	Source: 1115016-03			Prepared & Analyzed: 09/17/21						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P111707-DUP5)	Source: 1115017-02			Prepared & Analyzed: 09/17/21						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P111707-DUP6)	Source: 1115017-12			Prepared & Analyzed: 09/17/21						
% Moisture	10.0	0.1	%		10.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P111707 - *** DEFAULT PREP ***										
Duplicate (P111707-DUP7)	Source: 1115018-12			Prepared & Analyzed: 09/17/21						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P111707-DUP8)	Source: 1115018-22			Prepared & Analyzed: 09/17/21						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P111707-DUP9)	Source: 1115023-03			Prepared & Analyzed: 09/17/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P111707-DUPA)	Source: 1115023-13			Prepared & Analyzed: 09/17/21						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P111707-DUPB)	Source: 1116005-05			Prepared & Analyzed: 09/17/21						
% Moisture	4.0	0.1	%		6.0			40.0	20	R3
Duplicate (P111707-DUPC)	Source: 1116007-06			Prepared & Analyzed: 09/17/21						
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P111707-DUPD)	Source: 1116007-21			Prepared & Analyzed: 09/17/21						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P111707-DUPE)	Source: 1116008-03			Prepared & Analyzed: 09/17/21						
% Moisture	6.0	0.1	%		3.0			66.7	20	R3

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111708 - * DEFAULT PREP *****

LCS (P111708-BS1)

Prepared & Analyzed: 09/17/21

C6-C12	838	25.0	mg/kg wet	1000		83.8	75-125			
>C12-C28	812	25.0	"	1000		81.2	75-125			
Surrogate: 1-Chlorooctane	91.8		"	100		91.8	70-130			
Surrogate: o-Terphenyl	55.0		"	50.0		110	70-130			

LCS Dup (P111708-BSD1)

Prepared & Analyzed: 09/17/21

C6-C12	841	25.0	mg/kg wet	1000		84.1	75-125	0.320	20	
>C12-C28	824	25.0	"	1000		82.4	75-125	1.41	20	
Surrogate: 1-Chlorooctane	91.3		"	100		91.3	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			

Calibration Check (P111708-CCV1)

Prepared & Analyzed: 09/17/21

C6-C12	438	25.0	mg/kg wet	500		87.7	85-115			
>C12-C28	433	25.0	"	500		86.6	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

Calibration Check (P111708-CCV2)

Prepared & Analyzed: 09/17/21

C6-C12	432	25.0	mg/kg wet	500		86.3	85-115			
>C12-C28	435	25.0	"	500		87.0	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	52.1		"	50.0		104	70-130			

Matrix Spike (P111708-MS1)

Source: 1115014-11

Prepared: 09/17/21 Analyzed: 09/18/21

C6-C12	853	26.6	mg/kg dry	1060	ND	80.2	75-125			
>C12-C28	859	26.6	"	1060	11.1	79.7	75-125			
Surrogate: 1-Chlorooctane	130		"	106		122	70-130			
Surrogate: o-Terphenyl	49.8		"	53.2		93.6	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P111708 - * DEFAULT PREP *****

Matrix Spike Dup (P111708-MSD1)	Source: 1115014-11			Prepared: 09/17/21		Analyzed: 09/18/21				
C6-C12	846	26.6	mg/kg dry	1060	ND	79.5	75-125	0.816	20	
>C12-C28	862	26.6	"	1060	11.1	79.9	75-125	0.328	20	
Surrogate: 1-Chlorooctane	131		"	106		123	70-130			
Surrogate: o-Terphenyl	48.6		"	53.2		91.4	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/29/2021

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

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Permian Basin Environmental Lab, L.P.

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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706**

Phone: 432-561-4184

Project Manager: Tim McMinin

Company Name Etech Environmental and Safety Solutions, Inc.

Company Address: 13000 W CR 100

City/State/Zip: Odessa, Texas 79765

Telephone No: (432)230-3763

Sampler Signature:

Fax No:

e-mail: Matt@elechery.com
tm@elechery.com

Project Name: Charizo 12 CTB

Project #: 14229

Project Loc: Lea County, 1000

PO #: 99087

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

[illegible]



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Tim McElvinn

Company Name: Elect Environmental and Safety Solutions, Inc.

Company Address: 13000 W CR 100

City/State/Zip: Odessa, Texas 79765

Telephone No: (432)230-3763

Fax No: _____

Sampler Signature: [Signature]

e-mail: Matt@electlab.com

tim@electlab.com

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

Project Name: Chlorizo 12 CTB

Project #: 14229

Project Loc: Lee County, NM

PO #: 99087

Page 29 of 29

ORDER #: 115014

FIELD CODE

11 Perimeter #11

9/15/21 935

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015B

TPH: TX 1005 Ext TX:1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B 8030 or BTEX 8260

RCI

N.O.R.M.

Chlorides E 300

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:
Bill to Centennial Resource

Requested by: [Signature]

Date: 9/15

Time: 14:31

Date: 9/15/21

Time: 14:31

Date: 9/15/21

Time: 14:31

Laboratory Comments:

Sample Containers Intact?

OCs Free of Headspaces?

Labels on Containers?

OCs Sealed on Containers?

OCs Sealed on Containers?

OCs Sealed on Containers?

OCs Sealed on Containers?

OCs Sealed on Containers?

OCs Sealed on Containers?

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



Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Chorizo 12 CTB

Project Number: 14229

Location: New Mexico

Lab Order Number: 1J28010



Current Certification

Report Date: 11/02/21

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: Chorizo 12 CTB Project Number: 14229 Project Manager: Tim McMinn
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Perimeter #10A	1J28010-01	Soil	10/21/21 11:00	10-28-2021 16:00

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Chorizo 12 CTB
13000 West County Road 100	Project Number: 14229
Odessa TX, 79765	Project Manager: Tim McMinn

Perimeter #10A
1J28010-01 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	247	1.04	mg/kg dry	1	P1K0102	11/01/21 10:15	11/01/21 16:47	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1K0104	11/01/21 10:38	11/01/21 10:55	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1K0102 - *** DEFAULT PREP ***										
Blank (P1K0102-BLK1)				Prepared & Analyzed: 11/01/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1K0102-BS1)				Prepared & Analyzed: 11/01/21						
Chloride	391	1.00	mg/kg wet	400		97.7	90-110			
LCS Dup (P1K0102-BSD1)				Prepared & Analyzed: 11/01/21						
Chloride	390	1.00	mg/kg wet	400		97.6	90-110	0.141	10	
Calibration Blank (P1K0102-CCB1)				Prepared & Analyzed: 11/01/21						
Chloride	-0.0720		mg/kg wet							
Calibration Blank (P1K0102-CCB2)				Prepared & Analyzed: 11/01/21						
Chloride	-0.0800		mg/kg wet							
Calibration Check (P1K0102-CCV1)				Prepared & Analyzed: 11/01/21						
Chloride	19.8		mg/kg	20.0		98.9	90-110			
Calibration Check (P1K0102-CCV2)				Prepared & Analyzed: 11/01/21						
Chloride	20.3		mg/kg	20.0		102	90-110			
Matrix Spike (P1K0102-MS1)		Source: 1J28004-02		Prepared & Analyzed: 11/01/21						
Chloride	1140	5.56	mg/kg dry	556	599	97.8	80-120			
Matrix Spike (P1K0102-MS2)		Source: 1J28004-12		Prepared & Analyzed: 11/01/21						
Chloride	727	1.09	mg/kg dry	543	234	90.8	80-120			
Matrix Spike Dup (P1K0102-MSD1)		Source: 1J28004-02		Prepared & Analyzed: 11/01/21						
Chloride	1130	5.56	mg/kg dry	556	599	95.1	80-120	1.32	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
 13000 West County Road 100
 Odessa TX, 79765

Project: Chorizo 12 CTB
 Project Number: 14229
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1K0102 - * DEFAULT PREP *****

Matrix Spike Dup (P1K0102-MSD2)	Source: 1J28004-12			Prepared & Analyzed: 11/01/21						
Chloride	721	1.09	mg/kg dry	543	234	89.6	80-120	0.867	20	

Batch P1K0104 - * DEFAULT PREP *****

Blank (P1K0104-BLK1)	Prepared & Analyzed: 11/01/21									
% Moisture	ND	0.1	%							
Duplicate (P1K0104-DUP1)	Source: 1J28009-06			Prepared & Analyzed: 11/01/21						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P1K0104-DUP2)	Source: 1J29004-01			Prepared & Analyzed: 11/01/21						
% Moisture	5.0	0.1	%		5.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa TX, 79765

Project: Chorizo 12 CTB
Project Number: 14229
Project Manager: Tim McMinn

Notes and Definitions

ROI Received on Ice

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 11/2/2021

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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

PBELAB
Permian Basin Environmental Lab, L.P.
1400 Rankin Hwy. Midland Texas 79701 Phone: 432-686-7235

Project Manager: Tim McMinn
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: P.O. Box 62228
City/State/Zip: Midland, Texas 79711
Sampler Signature: [Signature] email: Tim

Tim@etechenv.com
Wesley@etechenv.com

☐ Bill Etech

Report Format: STANDARD: ☐ TRRP: ☐ NPDES: ☐

Project Name: Charizo 12 CTB
Project #: 14229 Project Loc: Lee County, NM
Area: PO#: 99087

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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[illegible]



Sample Receipt Checklist

Yes	Notes
<input checked="" type="checkbox"/>	Chain of custody present?
<input checked="" type="checkbox"/>	Chain of custody signed/dated/time when relinquished and received?
<input checked="" type="checkbox"/>	Sample date/time present on COC for all samples?
<input checked="" type="checkbox"/>	Sampler's name present on COC?
<input checked="" type="checkbox"/>	Chain of custody agrees with sample labels?
<input checked="" type="checkbox"/>	Sample containers intact?
<input checked="" type="checkbox"/>	Custody seals intact on sample bottles?
<input checked="" type="checkbox"/>	Samples in proper container/bottle?
<input checked="" type="checkbox"/>	Sufficient sample volume for indicated test?
<input checked="" type="checkbox"/>	All samples received within holding time?
<input checked="" type="checkbox"/>	Samples received within appropriate temp?
<input checked="" type="checkbox"/>	Analysis requested for all samples submitted?
	Shipping container/coolbox in good condition?
	Custody seals intact on shipping container/coolbox?

Login Notes:

402 Jars

1J28010



SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

temp 16.0 on ice

Resolution:

Client Contacted **No**

Name:

Date/Time:

NC Initiated by: **TB**

Approved by:

PBEL_SAMPLE_CHECKLIST_2021_1

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	nAPP2114445036
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident # nAPP2114445036
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.43520 _____ Longitude -103.42912 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chorizo 12 SC 503H	Site Type: Production Facility
Date Release Discovered: 5/21/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	36	21S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)7	Volume Recovered (bbls)5
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

An open choke to the facility allowed the gun barrel to overfill and release oil into containment and mist the location. A vacuum truck was called to the site and a reported 5bbls were recovered from the containment. An estimated 532 cubic feet were impacted from the oil on the pad. The cubic feet along with porosity and saturation % were used to estimate that 2bbls of oil impacted the surface.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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 not 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: Jamon Hohensee

Title: Sr. Environmental Analyst

Signature: _____

Date: _____

email: jamon.hohensee@cdevinc.com

Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2114445036
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>0-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 1/2-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

Incident ID	nAPP2114445036
District RP	
Facility ID	
Application ID	

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: Nikki Mishler Title: Sr. Environmental Representative

Signature:  Date: 3/8/2022

email: Nikki.Mishler@cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

Printed Name: Nikki Mishler Title: Sr. Environmental Representative

Signature:  Date: 3/8/2022

email: Nikki.Mishler@cdevinc.com Telephone: 432-315-0134

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2114445036
District RP	
Facility ID	
Application ID	

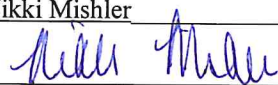
Closure

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: Nikki Mishler Title: Sr. Environmental Representative
Signature:  Date: 3/8/2022
email: Nikki.Mishler@cdevinc.com Telephone: 432-315-0134

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: _____

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 89865

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 89865
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure approved.	4/5/2022