Page 1 of 218

Incident ID	nAPP2213659126
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.	l
✓ 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: Connor Walker  Title: Sr. Engineer  Signature:  Date: 11/18/2022  Telephone: (806)202-5281	
Telephone. (2007)202 020	
OCD Only	-
Received by: Jocelyn Harimon Date:11/18/2022	
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: Robert Hamlet Date: 2/17/2023	
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced	

of New Mexico

Incident ID	nAPP2213659126
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?	65(ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes 🗸 No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗸 No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗸 No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗹 No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗸 No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	✓ Yes 🗌 No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗸 No					
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	✓ Yes 🗌 No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> </ul>	ls.					
Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release						

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.

✓ Photographs including date and GIS information

✓ Laboratory data including chain of custody

✓ Boring or excavation logs

Topographic/Aerial maps

Received by OCD: 11/18/2022 12:40:27 PM Form C-141 State of New Mexico
Page 4 Oil Conservation Division Page 3 of 218

Incident ID	nAPP2213659126
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: Connor Walker Title: Sr. Engineer Date: \_\_\_ 11/18/2022 Signature: email: cwalker@mewbourne.com Telephone: (806)202-5281 **OCD Only** Date: 11/18/2022 Jocelyn Harimon Received by:

Page 4 of 218

Incident ID	nAPP2213659126
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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
✓ Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Connor Walker	Title: Sr. Engineer
Signature: _ Lam Avalh	Date:11/18/2022
email: cwalker@mewbourne.com	Telephone: (806)202-5281
OCD Only	
Received by: Jocelyn Harimon	Date:11/18/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

## Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Aureus-Zuma Frac Line

Eddy County, New Mexico
Unit Letter "D", Section 25, Township 26 South, Range 29 East
Latitude 32.0166830 North, Longitude 103.943324 West
NMOCD Reference No. nAPP2213659126

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Zen J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

### TABLE OF CONTENTS

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
INITIAL SITE ASSESSMENT	4 <b>.</b> 0
REMEDIATION ACTIVITIES SUMMARY	<b>5.0</b>
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	
SOIL CLOSURE REQUEST	7 <b>.0</b>
LIMITATIONS	8.0
DISTRIBUTION	<b>9.0</b>

### **FIGURES**

Figure 1 - Topographic Map

Figure 2 - Site Characterization Map

Figure 3 - Site & Sample Location Map

### **TABLES**

Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

### **APPENDICES**

Appendix A - Depth to Groundwater Information

Appendix B - Field Data & Soil Profile Logs

Appendix C - Photographic Log

Appendix D - Laboratory Analytical Reports

Appendix E - Regulatory Correspondence

### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Aureus-Zuma Frac Line. Details of the release are summarized below:

Location of Release Source							
Latitude:	32.0166830	Longitude:	-103.943324				
	Provid	ed GPS are in WGS84 forma	t.				
Site Name:	Aureus-Zuma Frac Line	Site Type:	Pipeline				
Date Release Discover	red: 5/2/2022	API # (if applica	ble): N/A				
Unit Letter So	ection Township	Range	County				
"D"	25 26S	29E	Eddy				
Surface Owner: S	tate X Federal Tribal	Private (Nam					
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)				
X Produced Water	Volume Released (bbls)	434	Volume Recovered (bbls) 0				
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?							
Condensate	Volume Released (bbls)		Volume Recovered (bbls)				
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released		Volume/Weight Recovered				
Cause of Release: A discharge line dow	nstream of a booster pump but	rst due to overpressure	e.				
	I	nitial Response					
X The source of the	release has been stopped.						
X The impacted area	a has been secured to protect hu	man health and the env	vironment.				
X Release materials	have been contained via the use	of berms or dikes, abs	sorbent pad, or other containment devices				
X All free liquids ar	d recoverable materials have be	en removed and manas	ged appropriately				

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

### 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	65'			
Did the release impact groundwater or surface water?	Yes X No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes X No			
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No			
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No			
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No			
Are the lateral extents of the release overlying a subsurface mine?	Yes X No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	X Yes No			
Are the lateral extents of the release within a 100-year floodplain?	Yes X No			
Did the release impact areas not on an exploration, development, production or storage site?	X Yes No			

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Aureus-Zuma Frac Line release site are as follows:

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

<sup>\*</sup> Measured in milligrams per kilogram (mg/kg)

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

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

### 4.0 INITIAL SITE ASSESSMENT

On September 13, 2022, Etech conducted an initial site assessment. During the initial site assessment, thirteen (13) hand-augered soil bores (SP 1 through SP 13) were advanced along an ephemeral wash near the point of release that was inferred to have been impacted by the spill. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit. The soil bores were advanced in one (1) foot increments until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on field observations and field test data, a total of 26 delineation soil samples (SP 1 @ Surf., SP 1 @ 1', SP 2 @ Surf., SP 2 @ Surf., SP 2 @ 1', SP 3 @ Surf., SP 3 @ 1', SP 4 @ Surf., SP 4 @ 1', SP 5 @ Surf., SP 5 @ 1', SP 6 @ Surf., SP 6 @ 1', SP 7 @ Surf., SP 7 @ 1', SP 8 @ Surf., SP 8 @ 1', SP 9 @ Surf., SP 9 @ 1', SP 10 @ Surf., SP 10 @ 1', SP 11 @ Surf., SP 11 @ 1', SP 12 @ Surf., SP 12 @ 1', SP 13 @ Surf., and SP 13 @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX, TPH, and chloride concentrations were also below the applicable laboratory method detection limit (MDL), with the exceptions of soil samples SP 1 @ 1', SP 5 @ Surf., SP 5 @ 1', and SP 6 @ 1', which exhibited chloride concentrations ranging from 16.0 mg/kg to 32.0 mg/kg. Based on laboratory analytical results, soil in the ephermal wash was not affected above background concentrations, and no additional remedial action was required in the areas characterized by sample points SP 1 through SP 13.

The locations of the hand-augered soil bores are depicted in Figure 3, "Site & Sample Location Map".

### 5.0 REMEDIATION ACTIVITIES SUMMARY

On September 14, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On September 15, 2022, Etech collected six (6) confirmation soil samples (EW 1, WW 3, FS 5 @ 1', FS 6 @ 1', FS 7 @ 1', and FS 10 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample WW 3, which exhibited a TPH concentration of 15.0 mg/kg. Chloride concentrations ranged from 128 mg/kg in soil sample WW 3 to 576 mg/kg in soil sample FS 10 @ 1'.

On September 16, 2022, Etech collected 24 confirmation soil samples (EW 2 through EW 6, WW 1, WW 2, WW 4 through WW 7, FS 1 @ 1' through FS 4 @ 1', FS 8 @ 2', FS 9 @ 2', and FS 11 @ 1' through FS 17 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample WW 5, which exhibited a TPH concentration of 10.1 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample WW 1 to 368 mg/kg in soil sample WW 5.

On September 19, 2022, Etech collected 21 confirmation soil samples (EW 7, EW 8, EW 9, EW 11, SW 1, WW 8 through WW 11, FS 18 @ 3' through FS 28 @ 1', and FS 30 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FS 26 @ 1' to 448 mg/kg in soil sample FS 18 @ 3'.

On September 20, 2022, Etech collected 11 confirmation soil samples (EW 10, EW 12, WW 12, WW 14, FS 29 @ 2', and FS 31 @ 1' through FS 36 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples WW 12 and WW 14 to 288 mg/kg in soil sample FS 33 @ 1'.

On September 21, 2022, Etech collected seven (7) confirmation soil samples (NW 1, EW 13, EW 14, WW 13, FS 37 @ 2', FS 38 @ 2', and FS 39 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples EW 13 and WW 13 to 160 mg/kg in soil sample FS 39 @ 2'.

The final dimensions of the excavated area were approximately 728 feet in length, 12 to 38 feet in width, and one (1) to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 1,196 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,342 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

### 6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

### 7.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Aureus-Zuma Frac Line release site.

### 8.0 LIMITATIONS

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

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

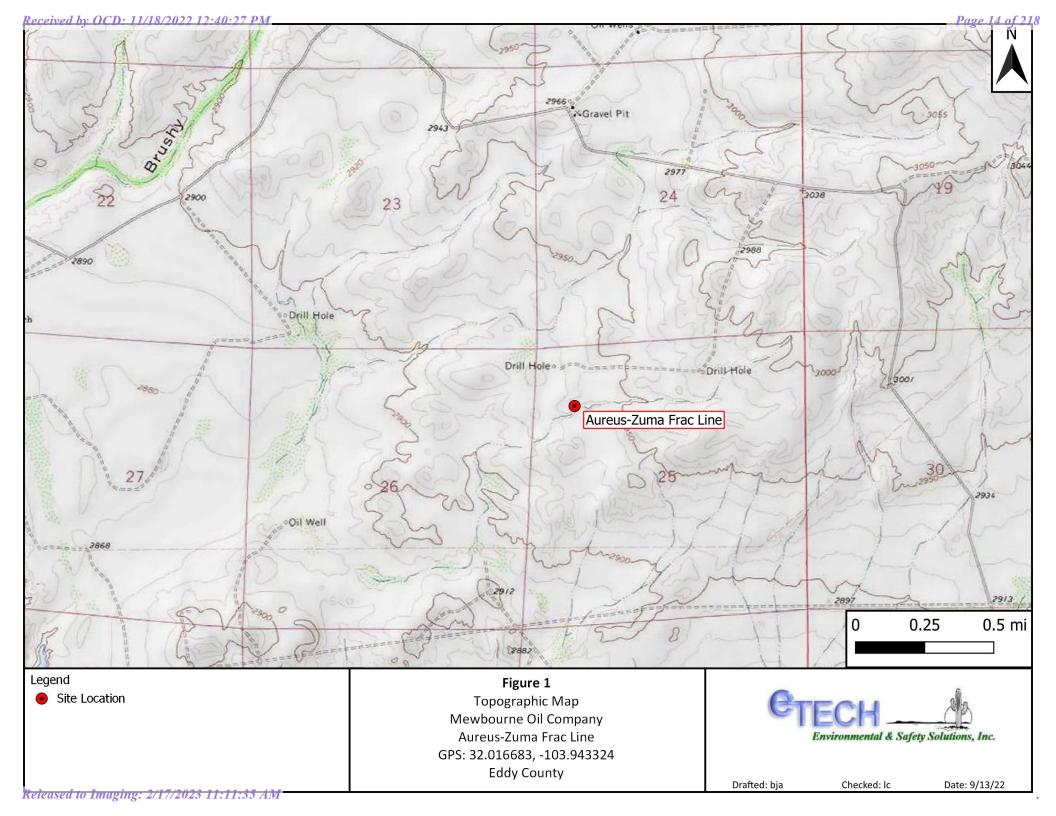
### 9.0 DISTRIBUTION

Mewbourne Oil Company 4801 Business Park Blvd. Hobbs, NM 88240

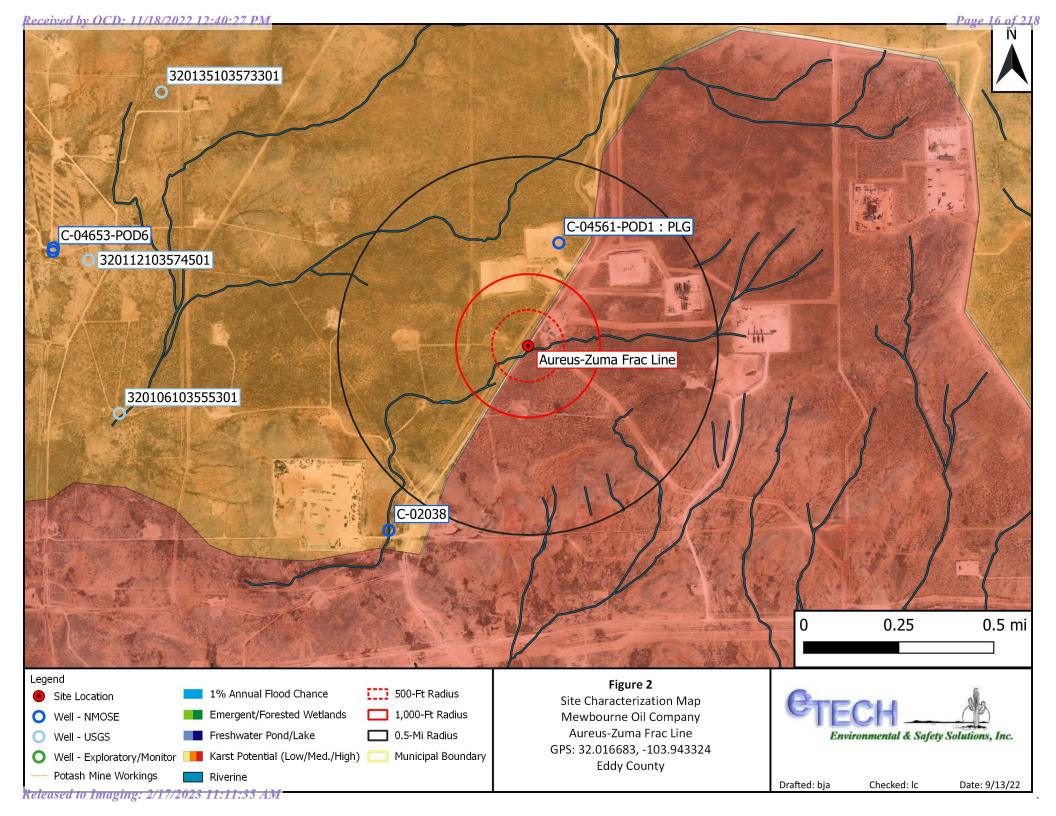
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

(Electronic Submission)

### Figure 1 Topographic Map



## Figure 2 Site Characterization Map



## Figure 3 Site & Sample Location Map



## Table 1 Concentrations of BTEX, TPH & Chloride in Soil

	Table 1										
Concentrations of BTEX, TPH & Chloride in Soil											
	Mewbourne Oil Company										
Aureus-Zuma Frac Line											
	NMOCD Ref. #: nAPP2213659126										
	CD Closure C			10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	Reclamation	Standard	ı	10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub>	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
					Delineation	, , ,	(88)	(mg/kg)	(8/8/	(88)	
SP 1 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 1 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP 2 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 2 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 3 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 3 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 4 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 4 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 5 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP 5 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP 6 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 6 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP 7 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 7 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 8 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 8 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 9 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 9 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 10 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 10 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 11 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 11 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 12 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 12 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 13 @ Surf.	9/13/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 13 @ 1'	9/13/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
, and the second					Excavation	Samples					
NW 1	9/21/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 1	9/15/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW 2	9/16/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EW 3	9/16/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	128
EW 4	9/16/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 5	9/16/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 6	9/16/2022	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 7	9/19/2022	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW 8	9/19/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 9	9/19/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 10	9/20/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 11	9/19/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 12	9/20/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

Dash (-): Sample not analyzed for that constituent. **Bold:** NMOCD Closure Criteria exceedance.

# Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Aureus-Zuma Frac Line NMOCD Ref. #: nAPP2213659126

				NMOCI	) Ref. #: n	APP2213	659126			1	
NMO	CD Closure C	riteria		10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	Reclamation	Standard		10	50	N/A	N/A	N/A	N/A	N/A 100	
				SW 846	8021B		SW	846 8015M	Ext.	T	4500 Cl
Sample ID	Date	Depth	Soil	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	TPH	Chloride
<b>P</b>		(Feet)	Status	(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub>	C <sub>10</sub> -C <sub>28</sub>	$C_6$ - $C_{28}$	C <sub>28</sub> -C <sub>36</sub>	C <sub>6</sub> -C <sub>36</sub>	(mg/kg)
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
EW 13	9/21/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 14	9/21/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 1	9/19/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW 1	9/16/2022	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 2	9/16/2022	0-5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	144
WW 3	9/15/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	15.0	15.0	128
WW 4	9/16/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	320
WW 5	9/16/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	10.1	10.1	368
WW 6	9/16/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	160
WW 7	9/16/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW 8	9/19/2022	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW 9	9/19/2022	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 10	9/19/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	64.0
WW 11	9/19/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
WW 12	9/20/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
WW 13	9/21/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	16.0
WW 14	9/20/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 1 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 2 @ 3'	9/16/2022	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 3 @ 5'	9/16/2022	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 4 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 5 @ 1'	9/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 6 @ 1'	9/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	288
FS 7 @ 1'	9/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 8 @ 2'	9/16/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 9 @ 2'	9/16/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	144
FS 10 @ 1'	9/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FS 11 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	304
FS 12 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 13 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 14 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 15 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 16 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 17 @ 1'	9/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 18 @ 3'	9/19/2022	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 19 @ 3'	9/19/2022	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 20 @ 1.5'	9/19/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 21 @ 1.5'	9/19/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 22 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 23 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 24 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

**Bold:** NMOCD Closure Criteria exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Aureus-Zuma Frac Line
NMOCD Ref. #: nAPP2213659126

NMO	CD Closure C	riteria		10	50	N/A	N/A	N/A	N/A	100	600	
NMOCD	Reclamation	Standard		10	50	N/A	N/A	N/A	N/A	100	600	
				SW 846	6 8021B		SW 846 8015M Ext.					
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C6-C28 (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)	
FS 25 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0	
FS 26 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FS 27 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS 28 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FS 29 @ 2'	9/20/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FS 30 @ 1'	9/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	112	
FS 31 @ 1'	9/20/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224	
FS 32 @ 1'	9/20/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	144	
FS 33 @ 1'	9/20/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288	
FS 34 @ 1'	9/20/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	176	
FS 35 @ 1'	9/20/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	272	
FS 36 @ 2'	9/20/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	192	
FS 37 @ 2'	9/21/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
FS 38 @ 2'	9/21/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	80.0	
FS 39 @ 2'	9/21/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	

### **Connor Walker**

From: Hamlet, Robert, EMNRD < Robert.Hamlet@state.nm.us>

Sent: Tuesday, August 16, 2022 2:31 PM

To: Lance Crenshaw

Cc: Connor Walker; Ben Arguijo; Joel Lowry; Bratcher, Mike, EMNRD; Nobui, Jennifer,

EMNRD; Harimon, Jocelyn, EMNRD

**Subject:** [EXT] (Extension Approval) for NMOCD Incident #nAPP2213659126

RE: Incident # NAPP2213659126

Lance,

Your request for an extension to **November 20th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Lance Crenshaw < lance@etechenv.com>

Sent: Tuesday, August 16, 2022 2:16 PM

**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>

**Cc:** Connor Walker <cwalker@mewbourne.com>; Ben Arguijo <bena@etechenv.com>; Joel Lowry <joel@etechenv.com> **Subject:** [EXTERNAL] Extension request for NMOCD Incident #nAPP2213659126

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) contracted Etech Environmental & Safety Solutions, Inc. (Etech), on August 16, 2021, to assume remediation activities for the release known as the Aureus – Zuma Frac Line (NMOCD Incident #nAPP2213659126) located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report was due for the release on August 16, 2022.

This release has been tied up with a third-party company and insurance providers, and Etech was just awarded this project based on the decision from the third-party insurance company, who will be paying for the dirt work. Also, the release occurred on top of numerous high-pressure lines from several different midstream and pipeline companies, which will require coordination with said companies to be able to excavate around their lines.

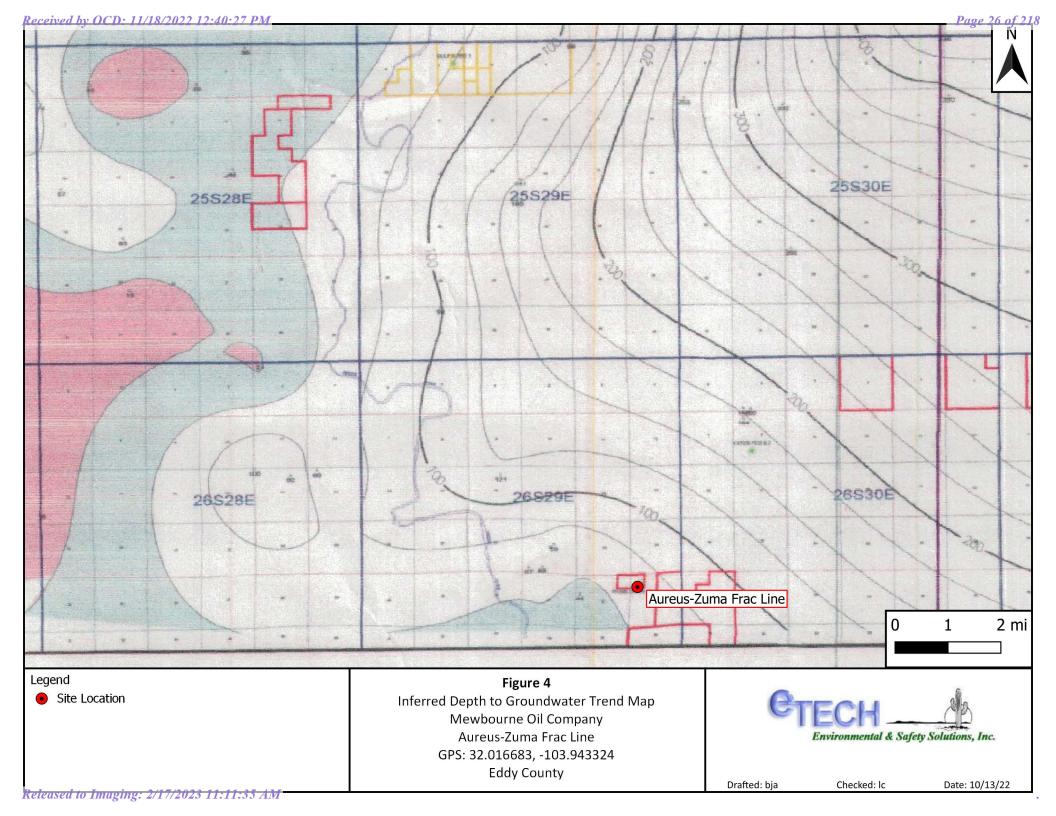
In consideration of this, Etech, on behalf of Mewbourne, would like to request an extension until November 20, 2022, in order to allow us time to fully complete the remediation and advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

## Appendix A Depth to Groundwater Information





### New Mexico Office of the State Engineer

### Water Column/Average Depth to Water

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

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

closed)

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

4 3 3 24 26S

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

(In feet)

**POD** 

**CUB** 

Sub-QQQ Water

**POD Number** C 04561 POD1

basin County 64 16 4 Sec Tws Rng Code

 $\mathbf{X}$ 599924 3543208 DistanceDepthWellDepthWater Column

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

UTMNAD83 Radius Search (in meters):

**Easting (X):** 599793.12 **Radius:** 804.67 **Northing (Y):** 3542772.78

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

10/20/22 9:14 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



### New Mexico Office of the State Engineer

### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

 $\mathbf{X}$ 

NA C 04561 POD1

26S 29E 3 3 24

3543208 599924

**Driller License:** 1249 **Driller Company:** 

ATKINS ENGINEERING ASSOC. INC.

**Driller Name:** 

ATKINS, JACKIE D.UELENER

07/28/2021

**Drill Finish Date:** 

07/28/2021 Plug Date: 08/12/2021

**Drill Start Date:** Log File Date:

08/17/2021

**PCW Rcv Date:** 

Source:

Pump Type:

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

**Depth Well:** 

Depth Water:

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

10/20/22 9:14 AM

POINT OF DIVERSION SUMMARY

PAGE 1 OF 2

WELL TAG ID NO.

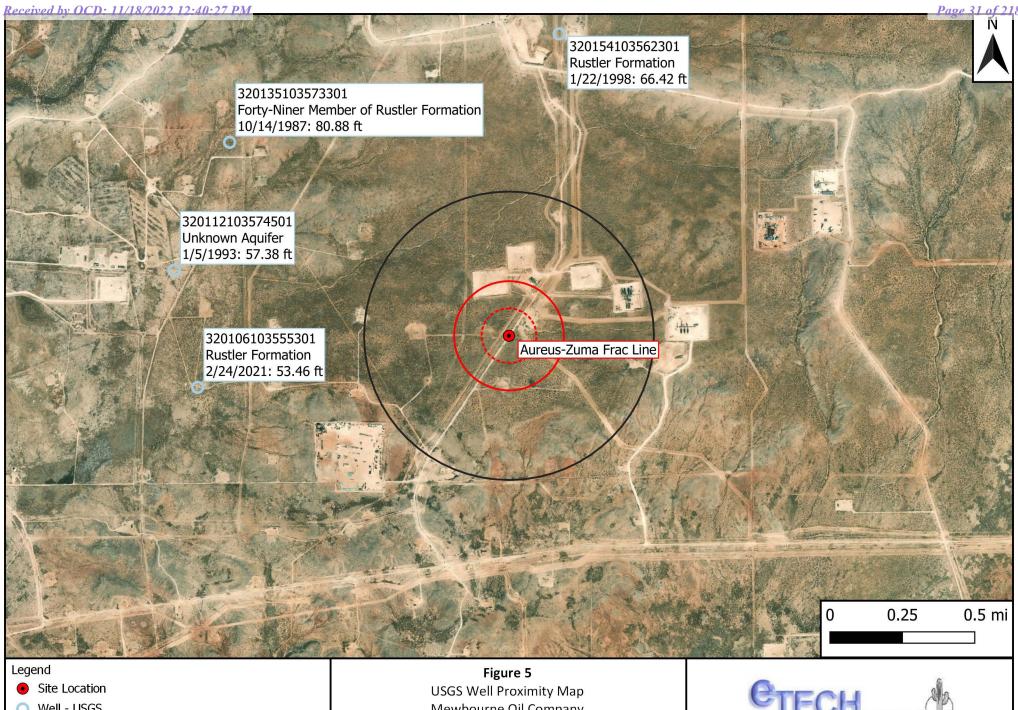


OSE 011 AUG 17 2021 PG:11

<u></u>	OSE POD NO	-	0.)		WELL TAG ID NO.			OSE FILE NO(	S).				
NO	POD1 (B)				n/a			C-4561					
GENERAL AND WELL LOCATION	WELL OWNE		•					PHONE (OPTIO	ONAL)				
יור	WELL OWN							CITY		STATE		ZIP	
WE	6401 Holid	lay Hill I	Or.					Midland		TX	79707		
S S	WELL		DI	GREES	MINUTES	SECOND							
AL.	LOCATIO		ATITUDE	32	1	14.17	N		REQUIRED: ONE TENT	TH OF A SE	ECOND		
NER	(FROM GP	S) L	ONGITUDE	103	56	30.83	3 W	* DATUM REC	QUIRED: WGS 84	<u>-</u> .			
1. GE	DESCRIPTION SE SW Sec		ING WELL LOCATION TO S R33E	STREET ADD	RESS AND COMMON	LANDMAI	RKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAI	LABLE		
	LICENSE NO	).	NAME OF LICENSED	DRILLER					NAME OF WELL DRI	LLING CO	MPANY	-	
:	124	19			Jackie D. Atkins				Atkins Eng	ineering A	Associates, I	nc.	
	DRILLING S		DRILLING ENDED		OMPLETED WELL (FI			LE DEPTH (FT)	DEPTH WATER FIRS		NTERED (FT)		
	07/28/	2021	07/28/2021	tempo	orary well materia	1		105		n/a			
Z	COMPLETE	O WELL IS	: ARTESIAN	DRY HO	OLE SHALLO	W (UNCON	FINED)		STATIC WATER LEV	TEL IN COM n/a	MPLETED WE	LL (FT)	
Ę	DRILLING F	LUID:	☐ AIR	☐ MUD	ADDITIV	ES – SPECI	FY:		-			·	
CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger									
I N	DEPTH	(feet bgl)	BORE HOLE	RE HOLE CASING MATERIAL AND/OR CASING CASING CASING WALL SLO									
S C	FROM	то	DIAM	(include	GRADE each casing string,	and		NECTION YPE	INSIDE DIAM.	1	CKNESS	SIZE (inches)	
CAS		106	(inches)	note	sections of screen)			ling diameter)	(inches)	(11	nches)		
3	0	105	±6.5		Boring- HSA						-		
2. DRILLING &						<del>-  </del>							
RE													
2. D													
				1									
				<u> </u>						<u> </u>		<u> </u>	
·	DEPTH	(feet bgl)		L	IST ANNULAR SE	EAL MAT	ERIAL A	AND	AMOUNT		METHO		
¥	FROM	TO	DIAM. (inches)	GRA	AVEL PACK SIZE-	RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	TENT	
TER												·	
MA				ļ									
[AR				ļ									
ANNULAR MATERIAL													
3. AN													
"													
	000 0000	NAT 112	I	I				11 mm A	A WELL BEGORD	L	Vancia - 06/0	0/170	
	OSE INTER	NAL US  - Δ P			POD NO	DA	77	TRN 1	WELL RECORD	× 1000 (	version Uo/3	0/1/)	

LOCATION

	DEDMII (									1	DOWN (A DED	
	DEPTH (1	TO	THICKNESS (feet)	INCLUDE WATE	ID TYPE OF MATERIA ER-BEARING CAVITIE pplemental sheets to full	S OR FRA	ACTURE ZONE	s	WAT BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	0	5	5	Caliche,	poor- moderate consolida	tion, Off	white-tan		Y	√ N	\ <del></del>	
	5	10	5	Sand, fine grained	d, poorly graded, with cal	iche grave	el, Reddish Brov	n n	Y	√ N		
	10	25	15	Clayey San	d, fine grained, poorly gra	aded, Red	dish Brown		Y	√N		
	25	30	5	Silty Sand, fi	ine grained, poorly graded	l, Reddish	Brown, Dry		Y	√N		
	30	45	15	Gravelly Silt	y, some gypsum, graded		Y	√ N				
r	45	60	15	Siltsto	ne, poorly cemented, Red		Y	✓ N				
4. HYDROGEOLOGIC LOG OF WELL	60	105	45	Claystone, Low plastic	city,cohesive, some gypsu	, moist	Y	✓ N				
OF V					N	·						
50									Y	N		
ICT									Y	N		
90									Y	N		
EOI									Y	N		
ROG									Y	N		
[AN]									Y	N		
4. F									Y	N		
							<del></del>		Y	N		
										N		
			<del> </del>				<del></del>		Y	N		
										N		
		<del></del>	<u> </u>							N		
							-		Y	N		
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:			тот	AL ESTIN	AATED		
	PUMI			_	THER - SPECIFY:			WEI	LL YIELD	(gpm):	0.00	
NOISL	WELL TES				FA COLLECTED DURING HOWING DISCHARGE							
TEST; RIG SUPERVIS	MISCELLA	NEOUS INF	fe		als removed and the so ace, then hydrated bent P on-site geologist.							
TES	PRINT NAM	Æ(S) OF DI	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPER	RVISION	OF WELL CON	STRU	CTION O	THER TH	IAN LICENSEE:	
5.	Shane Eldri	dge, Carme	lo Trevino, Car	neron Pruitt			,					
SIGNATURE	CORRECT I	RECORD O	F THE ABOVE I	EBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND IE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER IR WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:								
. SIGN	Jack Atkins 08/16/2021											
.9		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME					DATE		
FOI	R OSE INTER	NAL USF					WR.20 WF	LI.RF	CORD &	LOG (V~	rsion 06/30/2017)	
	E NO.	-45	61		POD NO. POT	7.1	TRN NO.	孙	104	3	0012012011)	
LO	CATION 7	45-	29E.2	4433		WE	LL TAG ID NO				PAGE 2 OF 2	



Well - USGS

500-Ft Radius

□ 1,000-Ft Radius ■ 0.5-Mi Radius

Mewbourne Oil Company Aureus-Zuma Frac Line GPS: 32.016683, -103.943324 **Eddy County** 



Drafted: bja

Checked: Ic

Date: 10/13/22



0

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 320154103562301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 320154103562301 26S.29E.22.23341

Eddy County, New Mexico
Latitude 32°01'54", Longitude 103°56'23" NAD27
Land-surface elevation 2,974 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

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

Date \$	Time \$	? Water- level	? Parameter   code	Water level, feet below land surface	Water level, feet above \$pecific vertical datum	Referenced vertical \$\datum\$	? Status	? Method of measurement	? Measuring \$\frac{1}{2}\$ agency	? Source of measurement	? Water-level approval status
1975-12-09		D	72019	61.45			1	Z			^
1976-01-16		D	72019	64.75			1	Z			A
1977-01-14		D	72019	63.41			1	Z			A
1978-02-23		D	72019	65.47			1	Z			А
1983-01-26		D	72019	66.44			1	Z			А
1987-10-14		D	72019	49.81			1	Z			А

Date   Time	<b>\$</b>	? Water- level date-time accuracy	? Parameter   code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring \$\frac{1}{2}\$ agency	? Source of measurement	? Water- level approval status
1992-11-04		D	72019	59.28			1	S			Α
1998-01-22		D	72019	66.42			1	S			А

### Explanation

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

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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-11-16 22:31:40 EST

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USA.gov

USGS

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Groundwater levels for the Nation

able of data Tab-separated data

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usas site no list =

• 320106103555301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83 Land-surface elevation 2,883.00 feet above NGVD29 The depth of the well is 140 feet below land surface. This well is completed in the Other aguifers (N9999OTHER) national aguifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

D

72019

55.93

**Output formats** 

ab separated dat	<u>.u</u>										
<u>Graph of data</u>											
Reselect period											
Date \$	Time \$	? Water- level  date-time accuracy	? Parameter <sup>‡</sup> code	Water level, feet below land surface	Water level, feet above \$pecific vertical datum	Referenced vertical \$ datum	? Status	? Method of reasurement	? Measuring $\hat{\mathbf{v}}$	? Source of measurement	? Water- level approval status
1983-01-26		D	72019	54.30			1	Z			A
1987-10-14		D	72019	35.29			1	Z			А
1992-11-04		D	72019	44.06			1	S			A
1998-01-28		D	72019	53.01			1	S	USGS	S	А

2003-01-27

Date \$	Time \$	? Water- level date-time accuracy	? Parameter *	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring \$\hat{\phi}\$ agency	? Source of measurement	? Water- level \$ approval status
2013-01-09	19:00 UTC	m	72019	57.81			1	S	USGS	S	А
2021-02-24	21:10 UTC	m	72019	53.46			1	S	USGS	S	Α

#### Explanation

Section \$	Code \$	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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Title: Groundwater for USA: Water Levels

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site no list =

• 320135103573301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 320135103573301 26S.29E.23.31220

Eddy County, New Mexico

Latitude 32°01'35", Longitude 103°57'33" NAD27

Land-surface elevation 2,913 feet above NGVD29

The depth of the well is 170.00 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Forty-Niner Member of Rustler Formation (310FRNR) local aquifer.

### **Output formats**

#### able of data Tab-separated data Graph of data Reselect period Water Water level, level, feet Referenced Waterfeet Waterabove vertical **Date** Time Measuring \$ **Parameter** below **Method of** Source of level level specific datum Status date-time code land measurement measurement agency approval vertical surface status accuracy datum 1987-10-14 D 72019 80.88 S

#### Explanation

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

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site no list =

• 320112103574501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320112103574501 26S.29E.22.333242

Eddy County, New Mexico Latitude 32°01'12", Longitude 103°57'45" NAD27 Land-surface elevation 2,892.0 feet above NGVD29

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

#### **Output formats** Tab-separated data Graph of data Reselect period Water Water ? level, level, Water-? feet Referenced feet Waterabove \$ Measuring $\diamondsuit$ Date Time ≎ level vertical **Parameter** below **Method of** Source of level datespecific datum **Status** code land measurement agency measurement approval time vertical surface status datum accuracy 1993-01-05 21:45 UTC 72019 57.38 1 S m

#### Explanation

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

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-11-16 22:34:53 EST

0.35 0.25 nadww01



# Appendix B Field Data & Soil Profile Logs

9-13-22

Project: Aureus-Zuma Fractine Project Number: 16615

Latitude: 32.016683

Longitude: <u>-103.943324</u>

	Sample ID	PID/Odor	Chloride Conc.	GPS
9	12 Sunt.	-	152	
11	20 duri		<128	
21	30 durt		<128	
8	4 edung.	_	128	
9	Sedunt.	_	<128	
1	6 count.	-	152	
1	7edurt.	_	128	
1	98e Surt.	_	152	
J	9 Suf.		128	
2	10 edunt.		<)28	
8	11 00110-	_	152	
2	1) 2 e Lung.	-	152	
1	13 e Surf.	_	180	
-	&Pie!		120	
1	diae i		232	
-	df3 e1'		212	
	2P4 e1		152	
	1/501		152	
	2/6°1		128	
	117.		152	
-	218e)		à 3 à	
	21901	_	200	
1	SP10e 1		128	
			2 2	
-	1/12 e 1	<u> </u>	2)2	
3	1P 1301		180	
DAG				
Ŀ	`			
10.40.0		-		
222				
(10/)01)				
1/1				
-	Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5≥ → ♥ #1

Floor = FL #1 etc

Sidewall = SW #1 etc

Refusal = SP #1 @ 4-R

Soil Intended to be Deferred = 57 #1 @ 4' in-Situ

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



9-13-22

Date:

9-14-22

Project:

Aureus-Zuma Frac Line

Project Number: Pending Latitude: 32.016683 Longitude: -103.943324

Sample ID	PID/Odor	Chloride Conc.	GPS
WW1-25 Light	_	604.336	
WWI-25 Right	<b>V</b>	172	
FS[e]	_	372	
F520103	_	604-264	
FS3e1031/2'05		976.1868	
F5401	_	236	
WW2-25 Lt	<b>}</b>   -	908-416	
WW2-25 Right	4 -	656-296	·
W W3-25° 21t	+   -	1264	
W W 3-25 Right	_	372	
EW1-25 Lit	_	2008-504 EW2-25 Right \$	
7 030	<b>☆</b>	1132-552 EW2-25'27t	552
FS5e1		200	
FS6el'	_	456	
FS 7el'		552	
WW4-252h		456	
WW+-25 light		1416	
SWI		1736.552	
FS 8@122	-	716.232	
FS901'02'		776-296	
FS 1001'		532	
	* -	1,052.504	
WW 5-25 Right		552	
EW3-25 Right	}	336	
EW 3-25 Lyt		456	
FS [le]	_	336	
FS 12el		416	
FS13el		372	
F51421	_	372	
EW4-25 24t EW4-25 Right WW6-25 24t	<b>♦</b> –	296	
EW 4-25 Right	· · ·	552	
WW6-25 Right WW6-25 Left	<del>    -                                  </del>	416	
WW6-25 21t		504	
3 [2 150]		336	
FS 1601		416	
FS 1701	-	372	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

**GPS Sample Points, Center of Comp Areas** 



Released to Imaging: 2/17/2023 11:11:35 AM



Date:

9-16-22

Project: Aureus - Zuma Fracline

Project Number:

Latitude: 32.016683 Longitude: -103.943324

Sample ID	PID/Odor	Chloride Conc.	GPS
F5  80  e2 e3	_	716.716.552	·
FS 1901'02'03	-	716.840.336	
WW7-25 Let	_	396	
WW7-25 Right A	_	264	
WW8-25 Felt &	-	336	
WW 8-25 Right		456	
EW5-25 Rolt	_	1416	
EW5-25 Lit *	_	372	
		33 <b>6</b>	
EW 6-25 Sept		504	
EW7		504	
EW8		144	
EW9		296	
WW9		264	
MWIO		264	
WWII		504	
FS 1803	<u> </u>	552	
FS 1903'		336	
FS 20e 1/2		372	
FS 210 1/2		336	
F522e1'		232	
FS23e1' FS24e1'		4 1 0	
FS25el	<del> </del>	232	
E2961,		120	
		172	
FS2801		232	
FS 29 e   e2'		656-296	1
FS30e	<b> </b>	296	
EILIA		612.332	
EWIL	-	612.332	
WW/2	_	744-200	
* WW 13	_	612-1328-1072120	
L COlol		460	
E E 2 3361, E E 2 3361,		1372	
E F S 33° 1.	-	460	
Sample Point - SP #1 @ ## atc	1	Tast Trench = TT #1 @ ##	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

Recomplete W. W. @ To or Still #10

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Date:	

1		-	1
Project: A	useus-Zuma	trac	line
Project Nu		111	

Latitude: 32.016683 Longitude: -103.943324

Sample ID	PID/Odor	Chloride Conc.	GPS
FS34e1' FS35e1' FS36c1e2'	<u> </u>	416	
FS35e1'	-	372	
FS 360 102'	_	852·508 920·508	
EW 12	-	920.508	
WW14-33 Wall	_	612.172	
EW/3	-	788-332	
EW 14	_	788-120	
	1	992.556	
FS 37e102 FS 38e1e2 FS 39e1'e2'	_	788-172	
FS 39e1'e2'		852.332 788.852.612,228	
NWI	-	788.852.612 228	
		)20	
·			
-			
40.27			
<del>4</del>			
5			
202			
18/202	<del> </del>		

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Received by OCD: 14

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



# **Soil Profile**

Environmental & Safety Solut				Date:	
roject: Aureus-Z roject Number:	uma Frac Line	Latitude:	32.016683	Longitude:	-103.943324
epth (ft. bgs)	ON Soft Soft Sand	oad cali	che	scription	
4 5 6 7	Sand				
8 9 10 11					
13 14 15 16					
18 19 20 21	Secretaria de la contractiva del la contractiva del la contractiva de la contractiva del la contractiva de la contractiva del				
22 23 24 25 26					
27 28 29 30 31					
32 33 34 35					
36 37 38 39 40					
TO	gedeniast (criticipa desentati	Ottopolisiikolisenen kuurrittiini Tähinistelääneleeleel	therequence who while similaring thinks the copy of the second state of of the se	THE STATE OF THE S	

Received by OCD: 11/18/2022 12:40:27 PM

# Appendix C Photographic Log

**Photo Number:** 

1

**Photo Direction:** 

Southwest

**Photo Description:** 

View of the affected area.



**Photo Number:** 

2

Photo Direction:

South

**Photo Description:** 

View of the affected area.



**Photo Number:** 

3

**Photo Direction:** South-Southwest

**Photo Description:** 

View of the affected area.



**Photo Number:** 

4

**Photo Direction:** East-Southeast

**Photo Description:** 

View of the affected area.



**Photo Number:** 

5

Photo Direction:

Southwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

6

**Photo Direction:** 

Southwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

7

**Photo Direction:** Southwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

8

**Photo Direction:** 

Southwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

9

Photo Direction: Southwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

10

Photo Direction: Northeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

11

**Photo Direction:** 

Southwest

**Photo Description:** 



View of the remediation area after backfill and regrading.

**Photo Number:** 

12

**Photo Direction:** 

Southwest

**Photo Description:** 

View of the remediation area after backfill and regrading.



# Appendix D Laboratory Analytical Reports



June 17, 2022

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: FULLER (ZUMA FRAC)

Enclosed are the results of analyses for samples received by the laboratory on 06/14/22 14:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 06/14/2022 Sampling Date: 06/09/2022 Reported: 06/17/2022 Sampling Type: Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

NONE

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 1 @ 4' (H222539-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	QM-07, QR-03
Toluene*	<0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	QM-07, QR-03
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	QM-07, QR-03
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	131	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	137	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587

HOBBS NM, 88241 Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

Sample ID: SP - 1 @ 6' (H222539-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 688 06/15/2022 432 400 0.00 16.0 ND 108

Sample ID: SP - 1 @ 7' (H222539-03)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank % Recovery Qualifier Chloride 224 16.0 06/15/2022 432 400 0.00 ND 108

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 2 @ 4' (H222539-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	
Toluene*	< 0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	< 0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	22.7	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	12.3	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	134 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	142 %	6 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 3 @ SURFACE (H222539-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	135 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	139 9	6 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 06/14/2022 Sampling Date: 06/09/2022 Reported: 06/17/2022 Sampling Type: Soil

NONE

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 4 @ SURFACE (H222539-06)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	130	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	135	% 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 5 @ SURFACE (H222539-07)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	130	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	134	% 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 6 @ 2' (H222539-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	127 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	131 9	59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

 Received:
 06/14/2022
 Sampling Date:
 06/09/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

NONE

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 8 @ SURFACE (H222539-09)

BTEX 8021B

DIEX GOZID	11197	Kg .	Allulyzo	u by. 311/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/14/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	135 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	138 9	% 59.5-14.	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

 Received:
 06/14/2022
 Sampling Date:
 06/09/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

NONE

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 9 @ 4' (H222539-10)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	130 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	133 9	% 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

 Received:
 06/14/2022
 Sampling Date:
 06/09/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

NONE

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 10 @ 4' (H222539-11)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	121 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	126 %	6 59.5-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 10 @ 7' (H222539-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/15/2022	ND	432	108	400	0.00	

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Celey D. Keene



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

 Received:
 06/14/2022
 Sampling Date:
 06/09/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

NONE

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 11 @ SURFACE (H222539-13)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	118	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	122	% 59.5-14	22						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 11 @ 1' (H222539-14)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	124	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	129	% 59.5-14	2						

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Celeg D. Freene



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

 Received:
 06/14/2022
 Sampling Date:
 06/09/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

NONE

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 20 @ 1' (H222539-15)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	131	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	137	% 59.5-14	2						

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Celeg D. Keene



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
DAN DUNKELBERG
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

 Received:
 06/14/2022
 Sampling Date:
 06/09/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 21 @ 1' (H222539-16)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	132	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	137	% 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Applyzed By: 1H /

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 22 @ SURFACE (H222539-17)

DTEV 0021D

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	198	99.0	200	6.74	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	186	92.9	200	3.42	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	128	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	135	% 59.5-14	2						

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#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 23 @ 2' (H222539-18)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	06/15/2022	ND	2.24	112	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.18	109	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.80	113	6.00	4.98	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 % 69.9-14 mg/kg		0						
Chloride, SM4500Cl-B			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

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Celeg D. Freene



#### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 24 @ 1' (H222539-19)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 % 69.9-14 mg/kg		0						
Chloride, SM4500Cl-B			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	91.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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Celeg D. Freene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 25 @ 2' (H222539-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	< 0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	94.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	107 9	59.5-14	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 26 @ 2' (H222539-21)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	90.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 26 @ 3' (H222539-22)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2022	ND	432	108	400	3.64	

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 27 @ 2' (H222539-23)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 28 @ 4' (H222539-24)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	89.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102 9	% 59.5-14.	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/14/2022 Sampling Date: 06/09/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 29 @ 4' (H222539-25)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/15/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	59.5-14	2						

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## **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ND Analyte NOT DETECTED at or above the reporting limit

**RPD** Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CAR	RDINAL	101 East Marian (575) 393-2326 F												2	CHAI	N-O	F-C	USTO	DY A	ND	ANA	ALYS	SIS	REQ	UEST	I	
Company Name:	Trinity Oilfield Service	S									BILL TO							AN	ALYSI	SRE	QUES	ST					
Project Manager:	Dan Dunkelberg							P.C	). #:										T	T		T			T		
Address:	8426 N Dal Paso							Co	mpai	ny:	Mewbourne (	Oil Co.															
City:	Hobbs	State: NM	Zip	p:	882	41		Att	n:		Robbie Runn	els	7														
Phone #:		Fax#:						Ad	dres	s:			1							- 1							
Project #:		Project Owne	9F:	(SE	e bel	OW)		Cit	y:						1					- 1							
Project Name:	Fuller (Zuma Frac)	dan@trinityo	oilfie	ldse	ervice	s.co	m	Sta	ite:	T	Zip:		1			- 1											
Project Location:	Eddy Co., NM							Ph	one i	B:			1							1			1				
Sampler Name:	AO							Fax	x #:				1														
to be beginned			T			MAT	RIX		PRE	SERV	SAR	PLING	1														
H222539 Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER	ACID/BASE:	OTHER.	DATE	TIME	Chloride	ТРН	втех												
1	SP-1 @ 4'		G	1	T	X				T	6/9/2022		X	X	X												
2	SP-1 @ 6'		G	1	П	X					6/9/2022		X														
3	SP-1 @ 7°		G	1	П	X		П		T	6/9/2022		X														
4	SP-2 @ 4'		G	1	П	X					6/9/2022		X	X	X												
5	SP-3 @ Surface		G	1	П	X				T	6/9/2022		Х	X	X												
6	SP-4 @ Surface		G	1	П	X				T	6/9/2022		X	X	X												
7	SP-5 @ Surface		G	1		X				T	6/9/2022		X	Х	X												
8	SP-6 @ 2'		G	1		X				T	6/9/2022		X	Х	X												
9	SP-8 @ Surface		G	1	П	х					6/9/2022		х	х	X												
10	SP-9 @ 4'		G	1		Х		П			6/9/2022		Х	Х	X												
analyses All claims including service in no event shell Car affiliates or successors arisin	d Damages. Cardinal's lability and che gloose for migligence and any either or either the liable for Incidental or conseq- ig out of a related to the performance	uental damages, including wit of services hereunder by Caro	thout li	imitati regard	on, busin	ness inte	erruption	end rec	of use,	or loss	of profits incurred b	Ner contribution of the y client, its subsection reasons or otherwise	espicable			_											
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Relinquished By:		Date:	Re	ceiv	ved B	y:				1	0	REMARKS:															
Delivered By: (Circle Sampler - UPS - Bus		Observed Temp. °C	00000		Samp	ole Co		5	<		CKEO BY:	Turnaround Thermometer I Correction Fac	ID #113		Stand	lard	X	}	Cool		nly) San Hact Yes	s	Obser	rved Te			

<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 11/18/2022 12:40:27 PM

Lab	oratories	1 East Marian 75) 393-2326 F														F-CUS	3101	21.01	10 /	ANA	<u> </u>	O IVE	GOLS		
Company Name:	Trinity Oilfield Services									BILL TO							ANA	LYSIS	REC	QUEST	ī				
Project Manager:	Dan Dunkelberg						1	P.O. #	:																
ddress:	8426 N Dal Paso							Comp	any:	Mewbourne (	Oil Co.														
ity:	Hobbs	State: NM	Zip:	8	8241		-	Attn:		Robbie Runn	els													1	
hone #:		Fax #:					1	Addre	\$6:														1		
roject #:		Project Owne	er: (	<b>\$80</b>	below)		1	City:																	
roject Name:	Fuller (Zuma Frac)	dan@trinityo	ilfield	sen	rices.c	mo		State:		Zip:															
roject Location:	Eddy Co., NM						-	Phone	#:																
ampler Name:	AO			_			1	Fax #																	
				-	M/	TRI	C	PR	ESERV	. SAN	IPLING	1													
1222539 Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER	OIL	SLUDGE	OTHER: ACID/BASE	ICE / COOL	DATE	TIME	Chloride	HAL	втех											
(1	SP-10 @ 4'			1	TX	-	Ť		Ť	6/9/2022		X	×	X	1										
12	SP-10 @ 7"		+	1	×		$\Box$			6/9/2022		X													
13	SP-11 @ Surface		1	1	X		$\Box$			6/9/2022		X	X	X											
14	SP-11 @ 1'		++	1	x					6/9/2022		X	×	Х	$\top$										
15	SP-20 @ 1'		G	1	X					6/9/2022		X	X	Х											
ILE	SP-21 @ 1'		G	1	×					6/9/2022		X	х	X	T										
17	SP-22 @ Surface		G	1	×					6/9/2022		X	х	Х											
18	SP-23 @ 2'		G	1	X					6/9/2022		Х	х	Х											
19	SP-24 @ 1'		G	1	X					6/9/2022		X	х	X											
20	SP-25 @ 2'		G	1	X					6/9/2022		X	X	Х											
rvice. In no event shall Car	d Damages. Cardina's liability and client's in g those for negligance and any other cause rdinal be liable for incidental or consequent ing out of or related to the performance of se	whatsoever shall be deel al damages, including wit	med war thout limi	ved un tation,	business i	in well	ing and ptions,	loss of u	d by Card se, or loss	and within 30 days at of profits incurred by	for completon of the y client, its subsidiare	applicable III.													
elinquished By:		Date:	Rec	eive	d By:						Verbal Result		Yes		No		dd'i Ph	one#:							
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elinquished By:		Date:	Rec	eive	d By:				1		REMARKS:														
elivered By: (Circle		orrected Temp. °C	u·1		Cool	Intac				CKED BY:	Turnaround 1 Thermometer I	D#113		Standa	ard	X		Cool	ia (onl			bserved	Temp. °C		

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Released to Imaging: 2/17/2023 11:11:35 AM

CAI	Uraturies	01 East Marlan 575) 393-2326 F												2	HAIN	-OF-C	USTO	DY A	ND A	NAL	YSIS	REQ	UEST	
Company Name:	Trinity Oilfield Services										BILL TO						AN	IALYSIS	REQL	JEST				
Project Manager:	Dan Dunkelberg							P.O.	#:							T								-
Address:	8426 N Dal Paso	· <u>-</u>						Con	npany	g:	Mewbourne (	Oil Co.	1											
City:	Hobbs	State: NM	Zip	):	8824	1		Attr	1:		Robbie Runn	els	1			1								
Phone #:		Fax#:						Add	ress:				]											
Project #:		Project Owne	HT:	(se	belo	w)		City	:						1	1				- 1				
Project Name:	Fuller (Zuma Frac)	dan@trinityo	ilfie	ldse	rvice	s.cor	n	Stat	e:		Zip:				1		1							
Project Location:	Eddy Co., NM							Pho	ne #:				]		1							}	1	
Sampler Name:	AO							Fax	#:														1	
						MATI	SIX	-	PRESE	RV.	SAN	PLING												
1222539 Lab I.D.	Sample I.	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE	OTHER	DATE	TIME	Chloride	TPH	втех									
21	SP-26 @ 2'		G	1	T	X	T		Ť		6/9/2022		X	х	х									
21 25 23	SP-26 @ 3'		G	1		x		$\Box$	П		6/9/2022		X											
23	SP-27 @ 2'		G	1		x		$\Box$	П		6/9/2022		х	х	х									
24	SP-28 @ 4'		G	1		х	T	П	П		6/9/2022		X	х	×									
25	SP-29 @ 4'		G	1		х	T	П			6/9/2022		X	х	х									
	-						Т	П																
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analyses. All claims including	d Damages Cardine?s Rability and clent's g those for negligence and any other cause rdinal be liable for incidental or consequent ig out of or related to the performance of si	whatsoever shall be dee tel demeges, including wi	med w hout 6	arved i mitalic	inless ir n. busini	ade in i	vriting a	and mon is, loss c	rved by ( fuse at	Cardini Ioss o	of within 30 clays at if profits incurred by	ter completion of the a client, its exhaldering	applicable 16.											
Relinquished By:		Date:	Re	celv	ed By	:						Verbal Result	t	Yes		No	Add'l f	hone #:						
	24//	(14.9) Time: (41.2)		5	54	0	4	pi	gn	1	els	All Results an	e emailed.	Please pro	ovide Emai	il address	:							
Relinquished By:		Date:	Red	ceiv	ed By	:			Ø		0	REMARKS:												
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<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



June 21, 2022

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: FULLER (ZUMA FRAC)

Enclosed are the results of analyses for samples received by the laboratory on 06/17/22 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
DAN DUNKELBERG
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil Project Name: FULLER (ZUMA FRAC) Sampling Condition: Coo

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO., NM

# Sample ID: SP - 7 @ SURFACE (H222604-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2022	ND	2.05	103	2.00	0.824	
Toluene*	<0.050	0.050	06/18/2022	ND	2.03	102	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/18/2022	ND	1.91	95.4	2.00	1.11	
Total Xylenes*	<0.150	0.150	06/18/2022	ND	5.94	98.9	6.00	0.792	
Total BTEX	<0.300	0.300	06/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	115	% 59.5-14	2						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 9 @ 4' (H222604-02)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1820	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	100	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	111 9	% 59.5-14	2						

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 12 @ 2' (H222604-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114	% 59.5-14	2						

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Celey D. Keine



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

NONE

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 13 @ 1' (H222604-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	112	% 59.5-14	2						

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

HOBBS NM, 88241 Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 14 @ SURFACE (H222604-05)

DTEV 0021D

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	93.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103 9	% 59.5-14	2						

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 14 @ 1' (H222604-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/21/2022	ND	432	108	400	3.77	

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Celey D. Keine



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
DAN DUNKELBERG
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

 Received:
 06/17/2022
 Sampling Date:
 06/16/2022

 Reported:
 06/21/2022
 Sampling Type:
 Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 15 @ SURFACE (H222604-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	94.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	22						

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 15 @ 1' (H222604-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	432	108	400	3.77	

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO., NM

# Sample ID: SP - 16 @ SURFACE (H222604-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	94.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	105	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
DAN DUNKELBERG
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 17 @ SURFACE (H222604-10)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	88.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.1	% 59.5-14.	2						

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Celey D. Keene



## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
DAN DUNKELBERG
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 18 @ SURFACE (H222604-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 19 @ SURFACE (H222604-12)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	< 0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	94.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	22						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - EDDY CO., NM

## Sample ID: SP - 30 @ 4' (H222604-13)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	06/21/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114	% 59.5-14	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Fax To:

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

NONE

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 31 @ 4' (H222604-14)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	06/21/2022	ND	416	104	400	3.77	QM-07
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	100	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110	% 59.5-14	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MEWBOURNE - EDDY CO., NM

#### Sample ID: SP - 32 @ SURFACE (H222604-15)

DTEV 0021D

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/21/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	180	89.9	200	0.806	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	185	92.7	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110	% 59.5-14	2						

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## Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: FULLER (ZUMA FRAC) Sampling Condition: Cool & Intact
Project Number: FULLER Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - EDDY CO., NM

mg/kg

#### Sample ID: SP - 33 @ SURFACE (H222604-16)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	2.07	103	2.00	8.49	
Toluene*	<0.050	0.050	06/20/2022	ND	2.05	103	2.00	8.33	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.93	96.5	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.98	99.6	6.00	7.20	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	216	108	200	0.244	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	205	102	200	2.88	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	133	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	131	% 59.5-14.	2						

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## **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Received by OCD: 11/18/2022 12:40:27 PM

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hone #:	HOUUS	Fax #:	Zip.	00	241	_	Addi		Robbie Runn	DIS	-										
roject#:		Project Owne	ar .	too h	plow)		City:				1										
Project Name:	Fuller	dan@trinityo				m	State	F	Zlp:		1		1			1	1				
Project Location:		1		-			Phor		-p.		1										
Sampler Name:	AO		_	_			Fax				1										
			П	T	MAT	TRIX		RESERV	SAM	PLING	1									1	
42224e04 Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SLUDGE	OTHER	ICE / COOL	DATE	TIME	Chloride	ТРН	втех								
1	SP-7 @ Surface		1		X	ĬĬ.		T	6/16/2022		×	Х	X								
2	SP-9 @ 4'				х		$\Box$		6/16/2022		X	Х	х								
3	SP-12 @ 2"		G		X				6/16/2022		х	Х	Х								
4	SP-13 @ 1'		G		х				6/16/2022		X	Х	Х								
5	SP-14 @ Surface		G		х		П		6/16/2022		X	Х	Х								
6	SP-14 @ 1'		G		х				6/16/2022		Х										
7	SP-15 @ Surface		G		X				6/16/2022		Х	Х	Х								
8	SP-15 @ 1'		G		Х				6/16/2022		X										
9	SP-16 @ Surface		G	Ш	Х		Ц		6/16/2022		X	Х	Х						1		
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabenm.com

Released to Imaging: 2/17/2023 11:11:35 AM

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Company Name:	Trinity Oilfield Services								BILL TO						A	NALYS	IS RE	EQUES	ST	,			
Project Manager:	Dan Dunkelberg						P.O. 1																
ddress:	8426 N Dal Paso						Comp	any:	Mewbourne (	Dil Co.	]												
City:	Hobbs	State: NM	Zip:	88	241		Attn:		Robbie Runn	els	]								1				
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roject Name:	Fuller	dan@trinityoi	lfield	servic	es.co	m	State		Zip:		]			1			- 1						
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4227604 Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SLUDGE	OTHER ACID/BASE	ICE / COOL OTHER	DATE	TIME	Chloride	ТРН	втех										
11	SP-18 @ Surface		G		X				6/16/2022		×	х	X									T	
12	SP-19 @ Surface		G		X				6/16/2022		×	X	X										
13	SP-30 @ 4'		G		X				6/16/2022		х	х	×										
	SP-31 @ 4'		G		x				6/16/2022		X	×	×										
15	SP-32 @ Surface		G		х				6/16/2022		X	х	×										
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				!	No	No	1		V	Correction Fac	lor -0.5 °C						No	No	C	orrected Te	mp. °C		

† Cardinal cannot accept verbal changes, Please email changes to celey,keene@cardinallabsnm.com



September 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: AUREUS - ZUMA FRACLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/14/22 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

# Sample ID: SP 1 @ SURF. (H224255-01)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	68.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	77.2	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

## Sample ID: SP 1 @ 1' (H224255-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	78.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.9	26 46.3-17	8						

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Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

# Sample ID: SP 2 @ SURF. (H224255-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	79.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.4	% 46.3-17	8						

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Celey D. Keine



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported:

09/19/2022 **AUREUS - ZUMA FRACLINE** 

Project Name: Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: SP 2 @ 1' (H224255-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	72.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.9	% 46.3-17	8						

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Celey D. Keene



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022 Sampling Date: 09/13/2022 Sampling Type: Soil

Sample Received By:

Project Name: AUREUS - ZUMA FRACLINE

Sampling Condition: Cool & Intact

Project Number: 16615
Project Location: MEWBOURNE

Tamara Oldaker

#### Sample ID: SP 3 @ SURF. (H224255-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	< 0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	76.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.5	% 46.3-17	<i>'</i> 8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 3 @ 1' (H224255-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	72.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.3	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SP 4 @ SURF. (H224255-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	65.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	72.0	% 46.3-17	78						

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Celey D. Kreine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022 Sampling Date: 09/13/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 4 @ 1' (H224255-08)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	71.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.1	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022

09/19/2022 AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SP 5 @ SURF. (H224255-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	67.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.0	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 5 @ 1' (H224255-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	73.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.1	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 6 @ SURF. (H224255-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	67.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.7	% 46.3-17	8						

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Celey D. Kreine

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 6 @ 1' (H224255-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: SP 7 @ SURF. (H224255-13)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 9	6 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022

09/19/2022 Sampling Type: AUREUS - ZUMA FRACLINE Sampling Condition:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/13/2022

Sample Received By:

Soil Cool & Intact Tamara Oldaker

Sample ID: SP 7 @ 1' (H224255-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	98.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112	% 46.3-17	8						

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Celey D. Kreine



Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported:

Sampling Date: 09/13/2022 09/19/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Condition: Cool & Intact Sample Received By:

#### Sample ID: SP 8 @ SURF. (H224255-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	93.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

09/14/2022 Reported: 09/19/2022

Project Name: **AUREUS - ZUMA FRACLINE** 

Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: SP 8 @ 1' (H224255-16)

Received:

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	< 0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	< 0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	91.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 9 @ SURF. (H224255-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	94.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022 Sampling Date: 09/13/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 9 @ 1' (H224255-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 10 @ SURF. (H224255-19)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	< 0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	93.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 10 @ 1' (H224255-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	98.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SP 11 @ SURF. (H224255-21)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.67	83.5	2.00	14.8	
Toluene*	<0.050	0.050	09/17/2022	ND	1.72	85.8	2.00	15.5	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.68	84.2	2.00	14.9	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.26	87.6	6.00	14.6	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	<i>'</i> 8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: SP 11 @ 1' (H224255-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.72	86.1	2.00	8.21	
Toluene*	<0.050	0.050	09/17/2022	ND	1.74	86.8	2.00	8.05	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.67	83.4	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.23	87.2	6.00	6.14	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	89.5 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 %	6 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/14/2022 Sampling Date: 09/13/2022

Reported: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SP 12 @ SURF. (H224255-23)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.72	86.1	2.00	8.21	
Toluene*	<0.050	0.050	09/17/2022	ND	1.74	86.8	2.00	8.05	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.67	83.4	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.23	87.2	6.00	6.14	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	89.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.8	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022

Project Name: AUREUS - ZUMA FRACLINE

Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SP 12 @ 1' (H224255-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.72	86.1	2.00	8.21	
Toluene*	<0.050	0.050	09/17/2022	ND	1.74	86.8	2.00	8.05	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.67	83.4	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.23	87.2	6.00	6.14	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	191	95.6	200	5.29	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	183	91.4	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	88.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.7	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Sampling Date:

09/13/2022

Reported:

Received:

09/14/2022 09/19/2022

Sampling Type:

Soil

Project Name:

AUREUS - ZUMA FRACLINE

Sampling Condition:

Cool & Intact

Project Number:

16615

Sample Received By:

Tamara Oldaker

Project Location:

MEWBOURNE

#### Sample ID: SP 13 @ SURF. (H224255-25)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.72	86.1	2.00	8.21	
Toluene*	<0.050	0.050	09/17/2022	ND	1.74	86.8	2.00	8.05	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.67	83.4	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.23	87.2	6.00	6.14	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	181	90.4	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	197	98.5	200	0.910	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	81.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.5	% 46.3-17	8						

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/14/2022 Reported: 09/19/2022 Sampling Date: 09/13/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 16615
Project Location: MEWBOURNE

Sample ID: SP 13 @ 1' (H224255-26)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	1.72	86.1	2.00	8.21	
Toluene*	<0.050	0.050	09/17/2022	ND	1.74	86.8	2.00	8.05	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.67	83.4	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.23	87.2	6.00	6.14	
Total BTEX	<0.300	0.300	09/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	181	90.4	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	197	98.5	200	0.910	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
Surrogate: 1-Chlorooctane	81.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.6	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



#### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

ecovery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240

Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-	2476																			, .,	7			
Company Name: Etech Environmental & Safety So	utions	s, in	C.						E	IL	LTO		2				AN	ALY:	SIS F	REQU	JEST			
Project Manager: Lance Creashaw							P.C	), #:										T						
Address: 2617 W Martand							Cor	npa	any /	Me	mbour	A C	1											
City: Hobbs State: NM	Zip	: 88	3240				Attı	n: C	0 4	00			1											
Phone #: (575) 264-9884 Fax #:							Add	dres	s:4	861	Busines	, leBlad				1								
Project #: 166 5 Project Own	er: N	P	1 ha	W.C.	10		Cit	v. H	06	bs		slikBlad	1		1									
Project Name: Aureus - Zuma Fractine		10.									Tip: 88			SM)	87									
Project Location:	A desired			-				one					Chloride	TPH (8015M)	ATEX (8021B)									
Sampler Name: Eric Mojica							Fax	(#:					1 5	H	×									
FOR LAB USE ONLY	T	T		M	ATR	X		PRE	SER	V.	SAMPL	ING	1	F	F				1					
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / BOOK	OTHER:	DATE	TIME												
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**REASE ROTTE: Liability and Demagne. Cardinal's fieldilly and clines's sectosive remody naisyses. All claims including those for negligence and any other cause whatevershall ervice. In no event shall Cardinal by liable for incidental or consequential damages, inclu-	oe deeme	nd week	ved unle	nes roud	ie in we	ling and	t recels	and by	Cardin	pi with	hin 30 days sit	or completion of	the applica	ûle										
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name	: Etech Environmental & Safety Solo	tions	, Inc	C.							BI	L	TO		8					AN	AL	YSI	SR	EQL	JEST			
Project Manage	r. Lance Crenshaw								O. 1							T				T	T			T	T			
Address: 261								C	omp	an	y N	e	וטסטו	AC.	1													
City: Hobbs	State: NM	Zip	: 88	240				At	ttn:	C	201	e	(															
Phone #: (575	5) 264-9884 Fax #:		- 4.6-					A	ddre	55:	48	01	Burner	likel-d														
Project #:	Project Owne	r: M	PW	1	1104	0		C	ity:	Ha	44	5	191	11.1.1.19														
Project Name:	Aureus - Zuna Fracline	- 1	-	00	VIA		-	St	tate:	N	M	Zi	p: 886	140	1.		€ M	18										
Project Location									hone				-000		흔		201	802										
	Eric Mojica							-	ax#	-					Chloride		TPH (8015M)	BTEX (8021B)										
FOR LAB USE ONLY	CITE / IBJICA	T			N	ATR	RIX	-	-		ERV.	Г	SAMPLI	NG	1~		7	BT										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / 888E	OTHER:		DATE	TIME														
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 · f 3

Released to Imaging: 2/17/2023 11:11:35 AM

Company Name: Etech Environ	mental & Safety Solu	tions,	, Inc.						BI	LLTO						ANA	LYSI	SRI	EQUE	ST		
Project Manager: Lance Cre	rshe w						P.O	#:								T			T			
Address: 2617 W Marland							Con	npar	y M	empour	ne										- 1	
City: Hobbs	State: NM	Zip:	882	240			Attr	: C	04	er												
Phone #: (575) 264-9884	Fax #:						Add	iress	480	Buigas	K Bly											
Project #:	Project Owne	r: M	e v 1	baur	00		City	H	-bb	5	11 4 114										1	
Project Name: Aureus -Z	na Fraction	/ 11	CH	000	110					Zip: 88%	140		(W)	18								
Project Location:	JAK JIKE II/IE							one il		2.000	110	Chioride	TPH (8015M)	BTEX (8021B)			1					
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service. In no event shall Cardinal be liable for incidental of affliates or successors arising out of or related to the perion Relinquished By:	rmance of services horounder by	Cardinel	i, regar	dess of w	hethor:	mupeon such clair	n is base	d upon	any of th	e above stated to	sent, in subsette mons or otherwi	rees, ise.										
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September 21, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: AUREUS - ZUMA FRACLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/16/22 15:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

A ... - I. ... - - I D. ... 311 /

Received: 09/16/2022 Reported: 09/21/2022

Project Name: AUREUS - ZUMA FRACLINE

Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: FS 1 @ 1' (H224308-01)

BTEX 8021B	mg/	'kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	74.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.8	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/16/2022

Reported: 09/21/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 2 @ 3' (H224308-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	81.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.2	% 46.3-17	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



Cool & Intact

Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

 09/16/2022
 Sampling Date:
 09/16/2022

 09/21/2022
 Sampling Type:
 Soil

Sampling Condition:

Sample Received By:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Location: MEWBOURNE

#### Sample ID: FS 3 @ 5' (H224308-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	77.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.7	% 46.3-17	78						

#### Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022 Sampling Date: 09/16/2022 Sampling Type:

Project Name: **AUREUS - ZUMA FRACLINE** 

Soil Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Project Number: 16615

Project Location: **MEWBOURNE** 

#### Sample ID: FS 4 @ 1' (H224308-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.4	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: 1H /

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

ma/ka

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/15/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: FS 5 @ 1' (H224308-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	70.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.4	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: 1H /

Received: 09/16/2022

Sampling Date:

09/15/2022

Reported:

09/21/2022

Sampling Type:

Soil

Project Name:

RTFY 8021R

AUREUS - ZUMA FRACLINE

ma/ka

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

16615

Project Location:

MEWBOURNE

### Sample ID: FS 6 @ 1' (H224308-06)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	72.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.4	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH/

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

mg/kg

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/15/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: FS 7 @ 1' (H224308-07)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	83.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.8	% 46.3-17	8						

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Cool & Intact

Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

 09/16/2022
 Sampling Date:
 09/16/2022

 09/21/2022
 Sampling Type:
 Soil

Sampling Condition:

Sample Received By:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Location: MEWBOURNE

Sample ID: FS 8 @ 2' (H224308-08)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	84.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.9	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported:

Sampling Date: 09/16/2022 Sampling Type: Soil 09/21/2022

Project Name: **AUREUS - ZUMA FRACLINE** Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: FS 9 @ 2' (H224308-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	86.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.0	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

09/21/2022 AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/15/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: FS 10 @ 1' (H224308-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	61.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	65.0	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/16/2022

Reported: Sampling Type: Soil 09/21/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: FS 11 @ 1' (H224308-11)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	70.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.8	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/16/2022

Reported: 09/21/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MEWBOURNE

ma/ka

#### Sample ID: FS 12 @ 1' (H224308-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.6	% 46.3-17	<i>'</i> 8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022 Sampling Date: 09/16/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 13 @ 1' (H224308-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	78.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.6	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported:

09/21/2022 **AUREUS - ZUMA FRACLINE** 

Project Name: Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: FS 14 @ 1' (H224308-14)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	83.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.7	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/16/2022

Reported: Sampling Type: Soil 09/21/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: FS 15 @ 1' (H224308-15)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/20/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	82.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.0	% 46.3-17	8						

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### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

**AUREUS - ZUMA FRACLINE** 

Project Name: Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: FS 16 @ 1' (H224308-16)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/21/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	76.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.0	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/16/2022

Reported: Sampling Type: Soil 09/21/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: FS 17 @ 1' (H224308-17)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/21/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/19/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	80.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.3	% 46.3-17	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/15/2022

Reported: 09/21/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: EW 1 (H224308-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.87	93.3	2.00	12.4	
Toluene*	<0.050	0.050	09/21/2022	ND	1.88	94.0	2.00	12.6	
Ethylbenzene*	< 0.050	0.050	09/21/2022	ND	1.83	91.6	2.00	12.8	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.73	95.5	6.00	12.8	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	82.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.6	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

09/21/2022 Sampling Type: Soil

Sampling Date:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Location: MEWBOURNE

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

09/16/2022

#### Sample ID: EW 2 (H224308-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	85.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.7	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: EW 3 (H224308-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	76.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.4	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/16/2022 Sampling Date: 09/16/2022

Reported: 09/21/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: EW 4 (H224308-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	82.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.5	% 46.3-17	78						

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09/16/2022

Cool & Intact

Tamara Oldaker

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

09/21/2022 Sampling Type:
AUREUS - ZUMA FRACLINE Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: AUREUS
Project Number: 16615

Project Location: MEWBOURNE

Sample ID: EW 5 (H224308-22)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	80.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.1	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: EW 6 (H224308-23)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	76.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.3	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: WW 1 (H224308-24)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.7	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

09/21/2022 AUREUS - ZUMA FRACLINE

Project Name: AUREUS
Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: WW 2 (H224308-25)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	187	93.6	200	4.96	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	188	94.1	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	83.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.1	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/15/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: WW 3 (H224308-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	172	85.9	200	3.47	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	179	89.4	200	2.84	
EXT DRO >C28-C36	15.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	91.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	78						

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09/16/2022

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Sampling Date:

Received: 09/16/2022 Reported: 09/21/2022

09/21/2022 Sampling Type:

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: WW 4 (H224308-27)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	172	85.9	200	3.47	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	179	89.4	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	87.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	78						

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Celey D. Keine



09/16/2022

Cool & Intact

Tamara Oldaker

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Sampling Date:

Sample Received By:

Received: 09/16/2022 Reported: 09/21/2022

09/21/2022 Sampling Type: AUREUS - ZUMA FRACLINE Sampling Condition:

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

#### Sample ID: WW 5 (H224308-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	172	85.9	200	3.47	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	179	89.4	200	2.84	
EXT DRO >C28-C36	10.1	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	85.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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09/16/2022

Cool & Intact

Tamara Oldaker

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

 09/16/2022
 Sampling Date:

 09/21/2022
 Sampling Type:

Analyzed By: JH/

Sampling Condition:

Sample Received By:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Location: MEWBOURNE

mg/kg

Sample ID: WW 6 (H224308-29)

BTEX 8021B

EXT DRO >C28-C36

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Chloride, SM4500CI-B  Analyte	<b>mg</b> ,	/kg  Reporting Limit	<b>Analyze</b> Analyzed	d By: GM  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,			-		BS 432	% Recovery	True Value QC	RPD 3.77	Qualifier
Analyte	Result	Reporting Limit	Analyzed 09/19/2022	Method Blank		,	•		Qualifier
Analyte  Chloride	Result	Reporting Limit	Analyzed 09/19/2022	Method Blank		,	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result  160  mg/	Reporting Limit 16.0	Analyzed 09/19/2022 Analyze	Method Blank ND d By: CK	432	108	400	3.77	

ND

09/19/2022

Surrogate: 1-Chlorooctane 95.1 % 45.3-161
Surrogate: 1-Chlorooctadecane 113 % 46.3-178

<10.0

10.0

Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/16/2022 Reported: 09/21/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/16/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: WW 7 (H224308-30)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2022	ND	1.73	86.7	2.00	10.8	
Toluene*	<0.050	0.050	09/21/2022	ND	1.72	86.0	2.00	11.2	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.68	84.0	2.00	9.91	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.24	87.3	6.00	9.98	
Total BTEX	<0.300	0.300	09/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	172	85.9	200	3.47	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	179	89.4	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	83.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.0	% 46.3-17	78						

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Celey D. Keine



#### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Routine

· f 3

Company Name: Etech Environment	al & Safety Solutions, Inc.	10011/		LTO				ANALYS	SIS REQ	UEST	
Project Manager: Lance Creash	N	P.	0. #:								
Address: 2617 W Marland		Ce	ompany M	embourne	1						
City: Hobbs	State: NM Zip: 88240		tin: Conn								
Phone #: (575) 264-9884	Fax#:	Ac	detross URAL	Burines Pik Alad	1						
Project #: \6615	Project Owner: Me whove	Ci	ity: Habbs	1001,40-1111.4(14							
Project Name: Aureus - Zuma	Filia			Zip: 88240		W	18)				
Project Location:	Jeachas		hone #:	Lip. 19470	Chloride	TPH (8015M)	BTEX (8021B)				
Sampler Name: Eric Moiica			ax #:		욽	E	×				
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	1	F	BTE				
Lab I.D. Sample I.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER	SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / <del>900E</del> OTHER :	DATE TIME							
1 F S   e   '	c 1	1	J	9.16-22	1	1	1				
2 FS 2e3	CI	1	1		1	1	/				
3 FS 3.5	CII	1	1		1	1	1				
4 FS 4e1	CI	<b>V</b>	1		1	1	/				
5 FS 5el	c 1	1	1	9-15-22	1	1	1				
G FS 6e1'	CII	1	1		1	1	1				
7 FS 7el	CII	1	V		1	1	1				
8 FS 8°2'	CII	1	V	9-16-22	/	/	1				
9 FS 9e2	CI	1	1		V	1	1				
10 FS 10e1	CIII	1		9-15-22	1	1	1				
	nase whatsoever shall be deemed walved unless n uental demages, including without limitation, busine	ado in willing and rece us interruptions, less o other such claim is bee	eleed by Cordinal wit of use, or loss of pro	his 30 days other completion of tills incurred by client, its establishment of the completion of the c	he application, se statistic statist	☐ Ye	s 🗆 Ne	Add'I Fax	#.		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.		ple Condition Intact Yes Yes No No	CHECKE (britis	D BY:	email r	esults	and cop	py of CoC to	pm@etecl	nenv.com.	

FORM-006 Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Routine

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Company Name	: Ete	ch Env	vironmental & Sal	lety Solut	ions	, Inc	).						3	BIL	LL TO							AF	VAL	YSIS	SR	EQU	EST		
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FOR LAB USE ONLY	2710	-//-	9166					M	ATR	1X	Ir a.	PRE	SE	RV.	SAMPL	ING		0	TP	PE BE			1						
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# ARDINAL LABORATORIES

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mpler Name:	Eric Mojica			-			-		F	1X #	:				Chloride	TPH (8015M)	STEX (8021B)										
R LAB USE ONLY			T	1	-	M	ATF	XIX	,_	PR	ESE	RV.	SAMPL	ING	1	F	B										
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September 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: AUREUS - ZUMA FRACLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/20/22 16:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

A ... - I. ... - d D. ... 311 /

Received: 09/20/2022 Reported: 09/23/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREUS
Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/19/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: FS 18 @ 3' (H224358-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	71.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.1	% 46.3-17	8						

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Celey D. Keine



Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported:

Sampling Date: 09/19/2022 Sampling Type: Soil 09/23/2022 Sampling Condition: Cool & Intact

Sample Received By:

Project Name: **AUREUS - ZUMA FRACLINE** Project Number: 16615

Project Location: **MEWBOURNE** 

Sample ID: FS 19 @ 3' (H224358-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	75.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.8	26 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022 Sampling Date: 09/19/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 20 @ 1.5' (H224358-03)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	75.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.0	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022 Sampling Date: 09/19/2022 Sampling Type: Soil

Project Name:

09/23/2022 Sampling Type: Soil
AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact

Project Number: 16615
Project Location: MEWBOURNE

Sample Received By: Tamara Oldaker

#### Sample ID: FS 21 @ 1.5' (H224358-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	69.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	78.5	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022 Sampling Date: 09/19/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE**  Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 16615 Project Location: **MEWBOURNE** 

Sample ID: FS 22 @ 1' (H224358-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	71.0 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.9	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 23 @ 1' (H224358-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	77.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.2	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Project Number: 16615

Project Location: **MEWBOURNE** 

Sampling Date: 09/19/2022 Reported: Sampling Type: Soil 09/23/2022

> Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: FS 24 @ 1' (H224358-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	72.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.2	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Sampling Date:

09/19/2022

Reported:

09/23/2022

**MEWBOURNE** 

Sampling Type:

Soil

Project Name:

**AUREUS - ZUMA FRACLINE** 

Sampling Condition:

Cool & Intact

Project Number: Project Location: 16615

Sample Received By:

Tamara Oldaker

Sample ID: FS 25 @ 1' (H224358-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	77.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.5	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 26 @ 1' (H224358-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	73.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.9	% 46.3-17	8						

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09/19/2022

Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

09/23/2022 Sampling Type: Soil
AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact

Sampling Date:

Project Name: AUREUS
Project Number: 16615

Project Number: 16615 Sample Received By: Project Location: MEWBOURNE

#### Sample ID: FS 27 @ 1' (H224358-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	77.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.1	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MEWBOURNE

ma/ka

#### Sample ID: FS 28 @ 1' (H224358-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	75.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.7	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/20/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MEWBOURNE

ma/ka

#### Sample ID: FS 29 @ 2' (H224358-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.22	
Toluene*	<0.050	0.050	09/22/2022	ND	2.00	100	2.00	9.48	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.95	97.3	2.00	9.52	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.07	101	6.00	9.73	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/21/2022	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	81.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.9	% 46.3-17	<i>'8</i>						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: Sampling Type: Soil 09/23/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 16615

Project Location: **MEWBOURNE** 

#### Sample ID: FS 30 @ 1' (H224358-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	193	96.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	221	110	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	79.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.6	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/20/2022

Reported: Sampling Type: Soil 09/23/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: FS 31 @ 1' (H224358-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.4	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022 Sampling Date: 09/20/2022 Sampling Type: Soil

Project Name:

09/23/2022 Sampling Type:
AUREUS - ZUMA FRACLINE Sampling Condition:

Project Number: 16615

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 32 @ 1' (H224358-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	93.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.7	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

**AUREUS - ZUMA FRACLINE** 

Project Name: Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/20/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: FS 33 @ 1' (H224358-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	93.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.0	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022 Sampling Date: 09/20/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 16615
Project Location: MEWBOURNE

#### Sample ID: FS 34 @ 1' (H224358-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	95.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/20/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 35 @ 1' (H224358-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	94.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	78						

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09/20/2022

Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

09/23/2022 Sampling Type: Soil
AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

## Sample ID: FS 36 @ 2' (H224358-19)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	86.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.5	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: SW 1 (H224358-20)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.5	% 46.3-17	<i>'</i> 8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022

 09/20/2022
 Sampling Date:

 09/23/2022
 Sampling Type:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Number: 16615 Sample Received
Project Location: MEWBOURNE

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

09/19/2022

Soil

#### Sample ID: EW 7 (H224358-21)

Reported:

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	< 0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

09/23/2022 AUREUS - ZUMA FRACLINE

Project Name: AUREU: Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/19/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: EW 8 (H224358-22)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	< 0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.9	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: Sampling Type: Soil 09/23/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Project Number: Sample Received By: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: EW 9 (H224358-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	94.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	6 46.3-17	8						

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### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

**AUREUS - ZUMA FRACLINE** 

Project Name: Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/20/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: EW 10 (H224358-24)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	90.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.9	% 46.3-17	8						

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Cool & Intact

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported:

Sampling Date: 09/19/2022 Sampling Type: Soil 09/23/2022

Project Name: **AUREUS - ZUMA FRACLINE** Project Number:

Sampling Condition: Sample Received By: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: EW 11 (H224358-25)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	90.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.2	% 46.3-17	8						

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### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/20/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: EW 12 (H224358-26)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	97.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	78						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: 09/23/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MEWBOURNE

ma/ka

#### Sample ID: WW 8 (H224358-27)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	93.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.8	% 46.3-17	<i>'8</i>						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/19/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: WW 9 (H224358-28)

BTEX 8021B	mg,	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	86.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.5	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/20/2022 Reported: 09/23/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREL Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/19/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: WW 10 (H224358-29)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.7	% 46.3-17	78						

### Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/20/2022 Sampling Date: 09/19/2022

Reported: Sampling Type: Soil 09/23/2022

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: WW 11 (H224358-30)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	1.40	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	96.8	2.00	0.644	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.91	95.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.92	98.6	6.00	2.07	
Total BTEX	<0.300	0.300	09/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/21/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2022	ND	182	90.9	200	5.74	
DRO >C10-C28*	<10.0	10.0	09/21/2022	ND	197	98.4	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2022	ND					
Surrogate: 1-Chlorooctane	91.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.4	% 46.3-17	8						

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#### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

ND Analyte NOT DETECTED at or above the reporting limit

**RPD** Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Company Name: Etech Environmental & S		BILL TO	ANALYSIS REQUEST	
Project Manager: Lance Crens	IAW	P.O. #:		
Address: 2617 W Marland		Company Mewbould		
City: Hobbs State	e: NM Zip: 88240	Attn: Conce Address: 4801 Businessi, City: Holds State: NM Zip: 8824		
Phone #: (575) 264-9884 Fax	k	Address: 4801 Business	LRI	
Project #: \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	act Owner: Ma. Laura 10	City Halls		
Project #: 16615 Proj Project Name: Auceus-Zuma F	1. vembourne	State: NM Tim: 8824	(A) (\$ (B) (\$)	
Project Location:	CACIINE	Phone #:	Chioride Chioride BTEX (8021B)	1
Sampler Name: Eric Majich		Fax #:		
FOR LAB USE ONLY	MATRI			
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: OTHER:	ME	
1 F5 18e3	CIV	1 9-14-22	/ / /	
Z F 5 19e3	CIIV	V	V V V	
3 FS 20e 1/2	CIV			
4 F521e1/2	CIII			
5 FS 22e 1'	C1 V		V V V	
6 FS 23e1'	CIIV	1	V V V	
7 FS a 4e1	CIIV			
8 FS 2501	CIIV			
9 FS 2601	C     V		111	
10 FS 27e1	CIIV	1	V V V	
NEASE NOTE: Liability and Damages. Cardinal's liability and client's works are typed to the service. In no event shall Cardinal be liable for incidental or consequential de filliates or escretays arising out of or related to the performance of service Relinquished By:  Date  Relinquished By:  Date  Time	noover shall be decented valued onless treate in will negate, including without limitation, business interrupt horsested by Cardinel, regardless of whether such the cardinel regardless of the cardi	ing and received by Cardinal william 30 days offer complete lone, less of sale, or loss of profile incurred by client, its suchains is bassed upon any of the above stateat reaccess or or Phone Fax Remark	stan of the applicable substitutions, otherwise, ne Result:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4,8°	Sample Co Cool Inti	edition   CHECKED BY:	se email results and copy of CoC to pm@etechenv.com.	

FORM-006 Revision 1.0

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# **ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Company Name	: Etech Environmenta	al & Safety Solut	ions	, Inc	· ·					3	BI	LL	TO						AN	IAL	SIS	RE	QUE	ST			
Project Manage	r. Lance Cren	shave						F	.O. II	:										1	T					T	
Address: 261	7 W Martand							C	omp	any	y N	1ew	,60	VIAC													
City: Hobbs		State: NM	Zip	88	240	-		A	Attn:	C	00	10	•														
	5) 264-9884	Fax #:						A	ddre	SS:	481	21 3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Pik Bla	1										1	1	
Project #: \_	415	Project Owner	. N	1_	.L.			c	ity:	4	11	5	DI CAG	210011							1						
Project Name:	LIS Aureus-Zum	F		22	700	JEP.		9	tate	N	M	Zin:	88	740		N N	ā										
Project Location	n:	a I racija	2			-			hone			Δην.	000	FU	Chloride	<b>TPH (8015M)</b>	ATEX (8021B)										
	Eric Moiica				-				ax #	_					울	(B)	×			-	1						
FOR LAB USE ONLY	Crie / 10/1 ca					M/	TRD	_			ERV.	SI	AMPLI	NG	10	F	F			1	1						
<b>Lab I.D.</b> #224358	Sample I.	D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOF	OTHER:	D	ATE	TIME													
//	F52801'		C	1		1			T	1		9.10	9.22		V	V	1	1									
12	FS 2902'		C	1		J				1		9.2			1	V	1	-									
13	F53001		C	1		V				1		9-19	1-22		1	1	V										
14	FS 3/e1		C			1				1		4.20			1	J	V										
15	FS 3201		C	1		V				V					1	1	1										
14	FS 3301		C	1		1				1					1	1	V										
17	F53401'		C	1		V				V					1	1	1										
	FS3501		C			1				V					V	1	V										
19	FS3602'		C	1		1				V					1	1	1										
20	SWI		C			V				1		9-19			1	1	V										
enetyses. All claims includes service. In no event shall Conflicted or successors artist Relinquished By Relinquished By Relinquished By	(Circle One)	suse wholeover shall be cuential derivages, including of services hereunder by C Date:  Time:  Time:  Time:	Re	d water d limbs receiv	red l	in reads solves is disclosed by: By: By:	is with	ng and references, tense claim is b	celed by circles	or too	edired was of property of the	sithin 30 orolle ince a above	days after a standard re-	dent, its subsidier	sult: lt:	□ Ye	es	□ No	Ad	d'I Fa			echer	W.COP	n.		
Delivered By:	(Circle One)	Date:	Re	eeiv	S	By:	e Cor	ves No	0	СН	ECK (Initial	(ED B)	Y:	Please e	mail r	esult	s an	d cop	y of C	oC t	o pm	@et	echer	w.con	n.		

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Company Name:	Etech Environmental			Inc			1 1			BI	LLT	0						ANA	ALYS	IS R	EQU	EST			
Project Manager:	Lance Cren	shaw						P.0	. #:								T			T	1	T			
Address: 2617 \	W Marland							Con	npa	ny /	Ye wh	00	ne												
City: Hobbs		State: NM	Zip:	882	240			Attr	1: <	-01	101														
Phone #: (575)	264-9884	Fax #:						Add	res	5:47	FOIR	5 2	. likB	1											
Project #: 166	15	Project Owner	M		600	140		City	H	11	,		en lik B	ľ											
Project Name: A	15 vieus-Zuna	Fraction	0		00-			Stat	be: /	VM	Zip:8	82	46		SM	(8021B)									
Project Location:		77.01171						Pho						Chloride	TPH (8015M)	803									
Sampler Name:	Eric Mojica			-				Fax						Ĕ	I	BTEX									
FOR LAB USE ONLY	9					MAT	RIX		PRE	SERV	SAM	PLI	4G		1	BT			1						
Lab I.D. H224358	Sample I.I	).	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	OTHER:	DAT	E	TIME												
2( )	EW7		C	1		1				1	9.19.2	12		1	1	V									
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23 E	EW9		C			1				1				V	1	1									
24 8	EMIO		C	1		1			,	1	9-20.			V	1	1									
	EWIL		C			1				1	9-14-2			1	1	V									
	EW12		C	Щ		V			1	1	9-26			V	V	1					-	-	-		-
27)	MM8		C	Ш		1			,	/	9-19-6	12		1	V	V	-		-	-			-		-
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September 26, 2022

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: AUREUS - ZUMA FRACLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/21/22 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/21/2022 Reported: 09/26/2022

AUREUS - ZUMA FRACLINE

Project Name: AUREU Project Number: 16615

Project Location: MEWBOURNE

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: NW 1 (H224393-01)

BTEX 8021B	mg,	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	87.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.8	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

mg/kg

Received: 09/21/2022 Sampling Date: 09/21/2022

Reported: 09/26/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE

#### Sample ID: FS 37 @ 2' (H224393-02)

BTEX 8021B

DILX GOZID	mg/kg Analyzed by: 511								
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	09/23/2022 ND		98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	86.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.9	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/21/2022 Reported: 09/26/2022

Sampling Date: 09/21/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: FS 38 @ 2' (H224393-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	80.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.1	% 46.3-17	78						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/21/2022 Reported: 09/26/2022 Sampling Date: 09/21/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** 

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 16615 Project Location: **MEWBOURNE** 

Sample ID: FS 39 @ 2' (H224393-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	85.2 %	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.4 %	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/21/2022 Reported: 09/26/2022

**AUREUS - ZUMA FRACLINE** 

Project Name: Project Number: 16615

Project Location: **MEWBOURNE**  Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: EW 13 (H224393-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	91.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.1	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/21/2022 Sampling Date: 09/21/2022

Reported: 09/26/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 16615

Project Location: **MEWBOURNE** 

#### Sample ID: EW 14 (H224393-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	85.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.2	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/21/2022 Sampling Date: 09/20/2022

Reported: 09/26/2022 Sampling Type: Soil

Project Name: **AUREUS - ZUMA FRACLINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: 16615 Tamara Oldaker

Project Location: **MEWBOURNE** 

#### Sample ID: WW 12 (H224393-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	89.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.6	% 46.3-17	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 09/21/2022 Sampling Date: 09/21/2022

Reported: 09/26/2022 Sampling Type: Soil

Project Name: AUREUS - ZUMA FRACLINE Sampling Condition: Cool & Intact
Project Number: 16615 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

#### Sample ID: WW 13 (H224393-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	90.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.3	% 46.3-17	78						

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Cool & Intact

Tamara Oldaker

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 09/21/2022 Reported: 09/26/2022

 09/21/2022
 Sampling Date:
 09/20/2022

 09/26/2022
 Sampling Type:
 Soil

Sampling Condition:

Sample Received By:

Project Name: AUREUS - ZUMA FRACLINE
Project Number: 16615

Project Location: MEWBOURNE

#### Sample ID: WW 14 (H224393-09)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	09/23/2022 ND		98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	88.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.0	% 46.3-17	8						

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

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RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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3 FS 38e3	<u></u>	C	+	+	V	++	+	+	1					1	1	1		+	+	+	+	+	1	+		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006 Revision 1.0

Received by OCD: 11/18/2022 12:40:27 PM

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# Appendix E Regulatory Correspondence

From:Lance CrenshawTo:Enviro, OCD, EMNRDCc:Connor Walker; Ben Arguijo

**Subject:** Excavation Confirmation sampling notification **Date:** Tuesday, September 20, 2022 3:53:17 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on September 22 through September 26 from the following locations/reportable release sites:

Mewbourne Oil Co – Aureus-Zuma– napp22133659126

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email (<a href="mailto:lance@etechenv.com">lance@etechenv.com</a>

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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

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 160084

#### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	160084
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created E	By Condition	Condition Date
rhamle	t We have received your closure report and final C-141 for Incident #NAPP2213659126 AUREUS – ZUMA FRAC LINE, thank you. This closure is approved.	2/17/2023