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Incident ID	nAPP2135430342
District RP	
Facility ID	
Application ID	

#### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 20 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	(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 <b>☑</b> 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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				

<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>	Characterization Report Checklist: Each of the following items must be included in the report.	_
1	<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> </ul>	

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

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## State of New Mexico Oil Conservation Division

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Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the Cailed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Grant Huckabay	Title: Environmental Specialist
Signature: Half	Date: 2-17-22
email; granth@forl.com	Telephone; (432) 687-1777
OCD Only	
Received by:	Date:

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## State of New Mexico Oil Conservation Division

Incident ID	nAPP2135430342
District RP	
Facility ID	
Application ID	

#### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation points</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Deterral Requests Only. Lach of the following tiems must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Grant Huckabay Title: Environmental Specialist
Signature: 2-17-22
email: granth@forl.com Telephone: (432) 687-1777
OCD Only
Received by: Chad Hensley Date: 03/21/2022
Approved
Signature: Date: 03/21/2022

# Site Assessment Report and Proposed Remediation Workplan

## Fasken Oil and Ranch, Ltd. Denton No. 7

Lea County, New Mexico
Unit Letter G, Section 11, Township 15 South, Range 37 East
Latitude 33.033834 North, Longitude 103.169512 West
NMOCD Reference No. nAPP2135430342

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland Hobbs, New Mexico 88240

Matthew Grieco

Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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#### **APPENDICES**

Appendix A - Depth to Groundwater Information

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#### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Fasken Oil and Ranch, Ltd., has prepared this *Site Assessment Report and Proposed Remediation Workplan* for the release site known as the Denton No. 7 (henceforth, "Site"). Details of the release are summarized below:

Provided GPS are in WGS84 format.  Site Name: Denton No. 7 Site Type: Oil Well  Date Release Discovered: 12/8/2021 API # (if applicable): 30-025-05294  Unit Letter Section Township Range County  G 11 15S 37E Lea	Latitude: 33.033834 Longitude: -103.169512							
Date Release Discovered: 12/8/2021 API # (if applicable): 30-025-05294  Unit Letter Section Township Range County G 11 15S 37E Lea  Surface Owner: State Federal Tribal X Private (Name ANGELL #2 FAMILY LTD PARTNE  Nature and Volume of Release  X Crude Oil Volume Released (bbls) 1 Volume Recovered (bbls) 3  Is the concentration of dissolved chloride 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  Cause of Release:  Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response	Lantude.							
Date Release Discovered: 12/8/2021 API # (if applicable): 30-025-05294  Unit Letter Section Township Range County G 11 15S 37E Lea  Surface Owner: State Federal Tribal X Private (Name ANGELL #2 FAMILY LTD PARTNE)  Nature and Volume of Release  X Crude Oil Volume Released (bbls) 1 Volume Recovered (bbls) 0.5  X Produced Water Volume Released (bbls) 9 Volume Recovered (bbls) 3  Is the concentration of dissolved chloride 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  Cause of Release:  Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response	C'. N	D . N 7	Ig: T	0.1 W 11				
Unit Letter Section Township Range County G 11 15S 37E Lea  Surface Owner: State Federal Tribal X Private (Name ANGELL #2 FAMILY LTD PARTNE  Nature and Volume of Release  X Crude Oil Volume Released (bbls) 1 Volume Recovered (bbls) 0.5  X Produced Water Volume Released (bbls) 9 Volume Recovered (bbls) 3  Is the concentration of dissolved chloride 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  Cause of Release: Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response								
G   11   15S   37E   Lea  Surface Owner: State Federal Tribal X Private (Name ANGELL #2 FAMILY LTD PARTNE  Nature and Volume of Release  X Crude Oil Volume Released (bbls) 1 Volume Recovered (bbls) 0.5  X Produced Water Volume Released (bbls) 9 Volume Recovered (bbls) 3  Is the concentration of dissolved chloride 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  Cause of Release:  Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response	Dute Release Discover	12/0/2021	711 1 " (II applicate	30 023 03274				
Surface Owner: State Federal Tribal X Private (Name ANGELL #2 FAMILY LTD PARTNE  Nature and Volume of Release  X Crude Oil Volume Released (bbls) 1 Volume Recovered (bbls) 0.5  X Produced Water Volume Released (bbls) 9 Volume Recovered (bbls) 3  Is the concentration of dissolved chloride 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  Cause of Release:  Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response	Unit Letter Se	ction Township	Range	County				
X Crude Oil   Volume Released (bbls)   1   Volume Recovered (bbls)   0.5     X Produced Water   Volume Released (bbls)   9   Volume Recovered (bbls)   3     Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?   Yes   X No   N/A     Condensate   Volume Released (bbls)   Volume Recovered (bbls)     Natural Gas   Volume Released (Mcf)   Volume Recovered (Mcf)     Other (describe)   Volume/Weight Released   Volume/Weight Recovered     Cause of Release: Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.     Initial Response   X The source of the release has been stopped.	G	11 15S	37E	Lea				
X Produced Water   Volume Released (bbls)   9   Volume Recovered (bbls)   3	Surface Owner: St							
Is the concentration of dissolved chloride 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:  Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response  X No N/A  N/A  No N/A  N/A  No N/	X Crude Oil	Volume Released (bbls)	1	Volume Recovered (bbls) 0.5				
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:  Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response  X The source of the release has been stopped.	X Produced Water	Volume Recovered (bbls) 3						
Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released Volume/Weight Recovered  Cause of Release: Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response  X The source of the release has been stopped.								
Other (describe) Volume/Weight Released Volume/Weight Recovered  Cause of Release: Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response  X The source of the release has been stopped.	Condensate Volume Released (bbls) Volume Recovered (bbls)							
Cause of Release: Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response  X The source of the release has been stopped.	Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)							
Due to corrosion, flowline started leaking. Fasken rep laced a joint of the steel flowline and well was returned to production.  Initial Response  X The source of the release has been stopped.	Other (describe) Volume/Weight Released Volume/Weight Recovered							
X The source of the release has been stopped.	Due to corrosion, flow	Vline started leaking. Fasken	rep laced a joint of the	steel flowline and well was returned to				
		I	nitial Response					
X The impacted area has been secured to protect human health and the environment.	X The source of the i	release has been stopped.						
	V The description	has been secured to protect hu	ıman health and the env	ironment.				
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices	A The impacted area							

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

#### 2.0 SITE CHARACTERIZATION

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

Two NMOSE wells (L-01283 and L-07610) were identified within a 500-foot radius of the Site. A field inspection of the wells was conducted to evaluate their impact on the site characterization; however, neither of the wells was able to be located. The wells were either incorrectly positioned on the NMOSE well map or have been removed, and do not affect the site characterization.

Groundwater gauging data collected in 2020 from NMOSE wells L-13629 POD 7 through POD 14 and POD 16 suggests a minimum groundwater depth of 69 feet. Although older data collected within a half-mile radius of the Site suggests a more shallow depth to groundwater, data collected more than 25 years ago is considered out of date and does not affect the site characterization. Guidance for this decision can be found in section (IX)(a) of *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC): "If nearby wells are used, it is preferable if they are situated within ½-mile of the release, the water level information is no more than 25 years old, and well construction information is provided."

What is the shallowest depth to groundwater beneath the area affected by the release?	69 Feet		
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?	Yes	X 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?	Yes	X No	

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on 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 Standard for the 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	10,000	600
69 Feet	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	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)

#### 4.0 INITIAL SITE ASSESSMENT

On January 12, 2022, Etech conducted an initial site assessment. During the initial site assessment, a hand-augered soil bore was advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing visual/olfactory senses and concentrations of chloride utilizing a Hach Quantab® chloride test kit. A site and sample location map is provided as Figure 3. Field data and soil profile logs are provided as Appendix B.

Based on field observations and field test data, ten (10) delineation soil samples (EH @ 0', EH @ 1', NH @ 0', NH @ 1', SH D @ 0', SH D @ 1', WH F @ 0', WH F @ 1', V 1 @ 1', and V 1 @ 2') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond one (1) foot below ground surface (bgs), and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

#### 5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, Fasken Oil and Ranch, Ltd., proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the area characterized by sample point V 1 to an estimated depth of one (1) foot bgs. The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.
- Impacted soil will be temporarily stockpiled on-site atop an impermeable liner, then transported to an NMOCD-approved surface waste facility for disposal.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria, collect the requisite confirmation soil samples.
- Upon receiving laboratory analytical results from confirmation soil samples, backfill the excavated area with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, a *Remediation Summary and Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

<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.

#### 6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. A minimum of one (1) representative five-point composite confirmation soil sample will be collected from the base of the excavated area representing every 300 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

#### 7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within ninety (90) days of receiving necessary approval(s) of the *Site Assessment Report and Proposed Remediation Workplan*. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately 185 cubic yards of impacted soil is in need of removal.

#### 8.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area will be compacted and contoured to meet the needs of the facility, to the extent practicable. Affected areas were limited to production pads and/or lease roads, and will not require reseeding.

#### 9.0 LIMITATIONS

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

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

#### 10.0 DISTRIBUTION

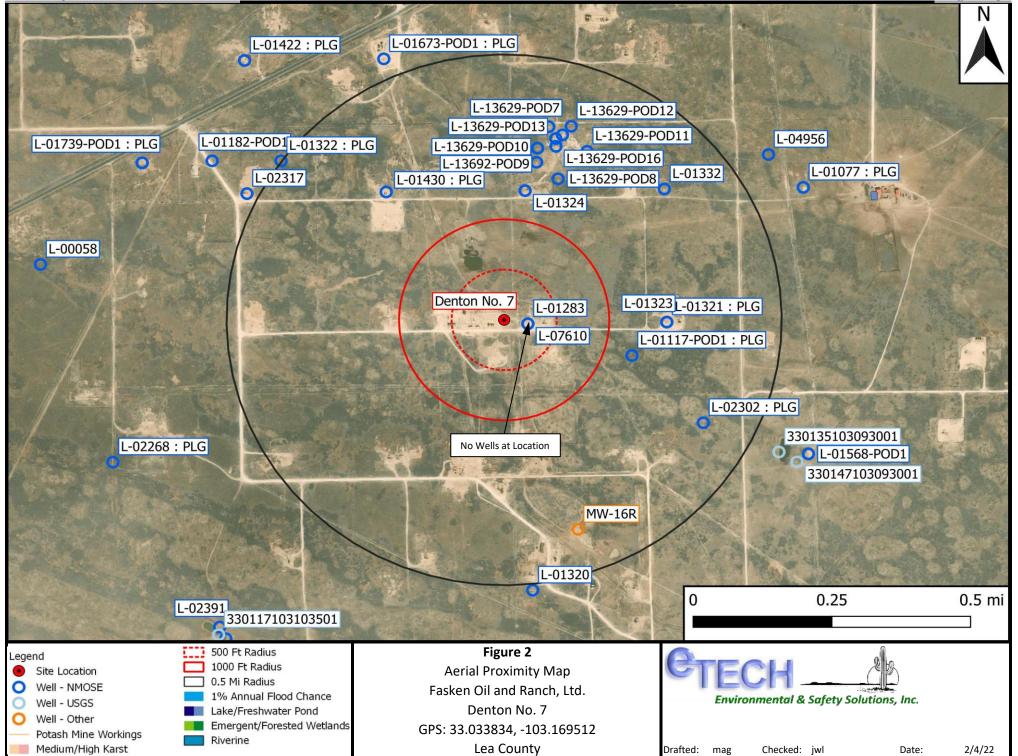
Fasken Oil and Ranch, Ltd. 6101 Holiday Hill Rd Midland, TX 79707

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

(Electronic Submission)

### Figure 1 Topographic Map

### Figure 2 Aerial Proximity Map



# Figure 3 Site and Sample Location Map

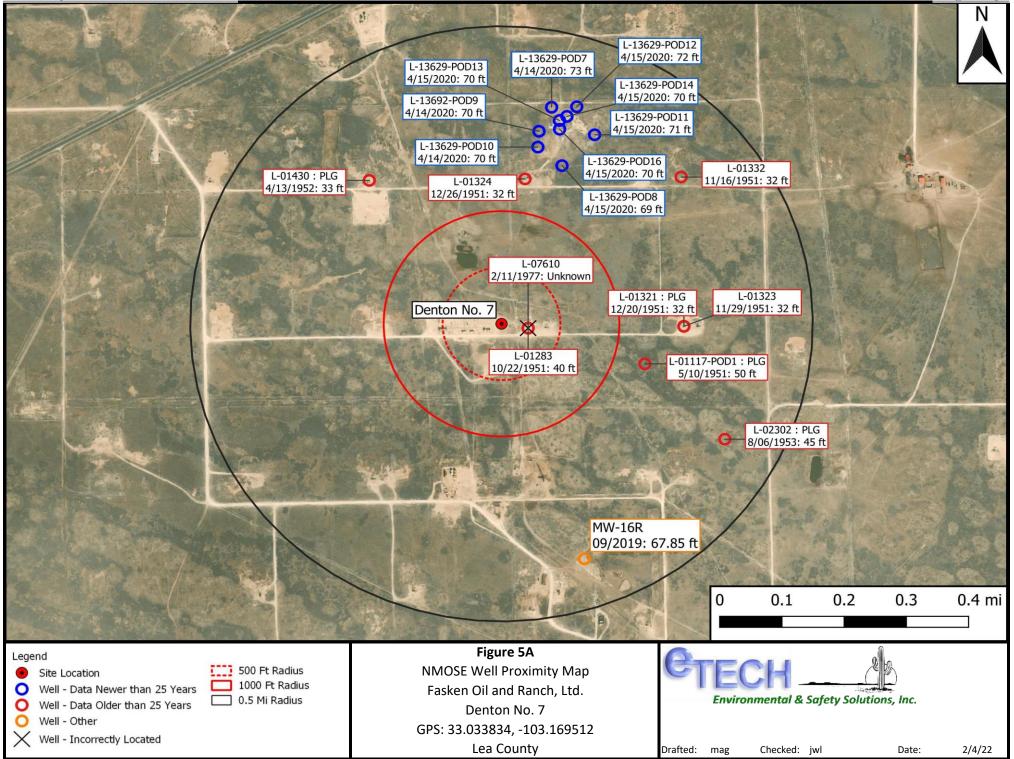


### Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

Table 1						
Concer	Concentrations of BTEX, TPH, and Chloride in Soil					
	Fask	en Oil and	d Ranch, I	Ltd.		
Denton No. 7						
NMOCD Ref. #: nAPP2135430342						
	10	50	-	-	1,000	-
rd	10	50	_	_	-	-

NMO	10	50	-	-	1,000	-	2,500	10,000			
NMOCD	10	50	•	•	•	•	100	600			
					6 8021B		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> (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)
EH @ 0'	1/12/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EH @ 1'	1/12/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH @ 0'	1/12/2022	0	In-Situ	< 0.050	< 0.300	<10.0	197	197	25.4	222	128
NH @ 1'	1/12/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
NH B @ 0'	1/27/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH D @ 0'	1/12/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH D @ 1'	1/12/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WH F @ 0'	1/12/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH F @ 1'	1/12/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
V 1 @ 1'	1/12/2022	1	In-Situ	< 0.050	< 0.300	<10.0	270	270	19.2	289	736
V 1 @ 2'	1/12/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592

# Appendix A Depth to Groundwater Information





### 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

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

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

,	ŕ	POD			•					- / \		ŕ	·	ŕ	
POD Number	Code	Sub-	County	_	Q 16	_	Sac	Twe	Pnσ	X	Y	DistanceDen	hWallD.	W epthWater Col	ater
L 01283	Couc	L	LE	UŦ	3			15S	37E	671012	3656515*	69	120	40	80
<u>L 07610</u>		L	LE		3	2	11	15S	37E	671012	3656515*	69	100		
<u>L 01117 POD1</u>		L	LE	3	4	2	11	15S	37E	671314	3656419*	386	120	50	70
<u>L 01324</u>		L	LE		1	2	11	15S	37E	671004	3656917*	395	120	32	88
L 13629 POD8		L	LE	2	1	2	11	15S	37E	671100	3656952	453	90	69	21
<u>L 01321</u>		L	LE		4	2	11	15S	37E	671415	3656520*	471	120	32	88
<u>L 01323</u>		L	LE		4	2	11	15S	37E	671415	3656520*	471	120	32	88
L 13629 POD10		L	LE	2	1	2	11	15S	37E	671037	3657002	485	90	70	20
<u>L 01430</u>		L	LE		2	1	11	15S	37E	670601	3656913*	516	120	33	87
L 13692 POD9		L	LE	2	1	2	11	15S	37E	671040	3657045	527	90	70	20
L 13629 POD16		L	LE	2	1	2	11	15S	37E	671094	3657050	545	90	70	20
L 13629 POD11		L	LE	2	1	2	11	15S	37E	671184	3657035	563	90	71	19
L 13629 POD13		L	LE	2	1	2	11	15S	37E	671093	3657074	567	90	70	20
L 13629 POD14		L	LE	2	1	2	11	15S	37E	671112	3657085	583	90	70	20
L 13629 POD7		L	LE	2	1	2	11	15S	37E	671073	3657109	597	90	73	17
<u>L 01332</u>		L	LE		2	2	11	15S	37E	671408	3656922*	610	115	32	83
L 13629 POD12		L	LE	2	1	2	11	15S	37E	671138	3657111	616	90	72	18
<u>L 02302</u>		L	LE	2	2	4	11	15S	37E	671521	3656216*	656	80	45	35
											Ave	rage Depth to Water	:	54 feet	:

Record Count: 18

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 670943.16 **Northing (Y):** 3656526.67 **Radius:** 804.67

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1/25/22 9:05 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

32 feet

73 feet

Minimum Depth:

Maximum Depth:

<sup>\*</sup>UTM location was derived from PLSS - see Help

Note: The following pages were extracted from the "Denton Trunkline Spill Workplan", dated December 20, 2019.

### **Depth to groundwater at 1RP-5271**

Please note that the following information was submitted to Fasken Oil and Ranch for nearby project 1RP-5270 by environmental consulting company SESI in Hobbs. Please note that most of the wells noted are within ½ mile of 1RP-5271. In particular, MW-16R is within the spill area of 1RP-5271. This monitoring well was installed at the direction of Plains All American Pipeline for a previous release that Plains All American is responsible for. David Boyer at SESI gauged this well on September 30, 2019. As needed, the full gauging history of this well might be available if it is needed by the OCD.

Fasken is also including an email from Camille Bryant at Plains All American Pipeline in reference to the depth to water for all Plains All American

 From:
 David Boyer

 To:
 Aaron Pachlhofer

 Cc:
 Rebecca Pons

**Subject:** Fasken SWD #2 information

Date:Tuesday, October 08, 2019 6:39:05 PMAttachments:Fasken SWD #2 Nearby Water Well Map.pdf

Aaron,

Attached is a map of nearby wells with depth to water and distance from SWD #2.

Some dates are greater than 30 years old, but are include to show water levels were greater than 50 feet at that time. Water levels in the Lea County ground water basin are declining everywhere to pumping, mainly for agriculture. These have been documented historically by numerous USGS and NM State Engineer Studies.

Monitor Well MW-16R is located at site of your Trunkline release and was sampled by me on Monday September 30, 2019

			Distance
Well ID	Date	DTW (ft.)	(miles)
L 01739	03/1953	55	0.43
L 02268	06/1953	55	0.31
L 02317	08/1953	65	0.48
L 13485	12/2013	103	0.27
L 14299	08/2017	84	0.40
MW-16R	09/2019	67.85	0.82

Also attached is a map composite of all the sampling locations at the SWD #2.

Rebecca should be able to help you if you have additional questions.

David G. Boyer, P.G.

Hydrogeologist

Safety & Environmental Solutions, Inc.

703 East Clinton St.

P.O. Box 1613

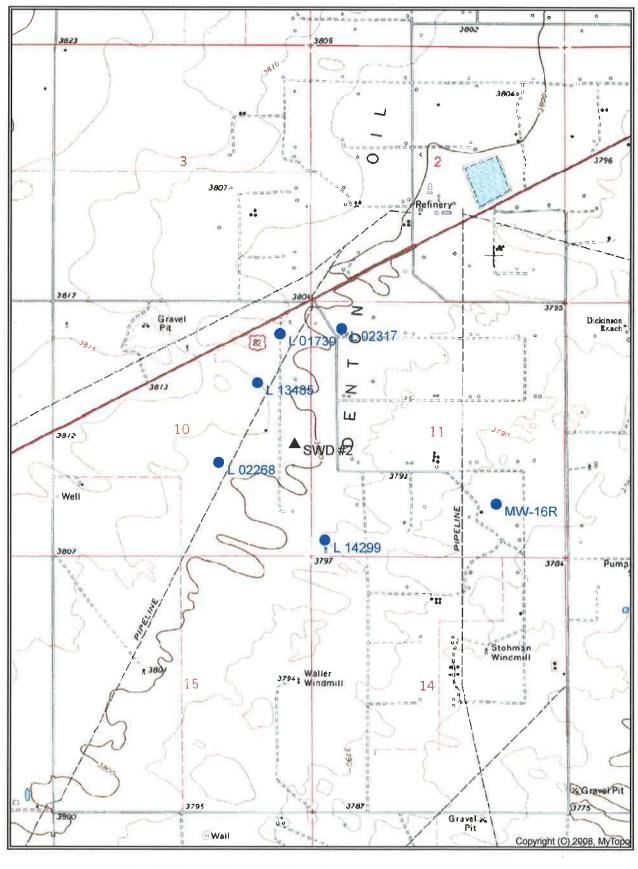
Hobbs, New Mexico 88241

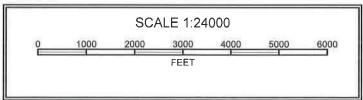
(575) 397-0510 (office)

(575) 393-4388 (fax)

(575) 390-7067 (cell)

dgboyer@sesi-nm.com





From: Camille J Bryant
To: Aaron Pachlhofer

Subject: DTW

**Date:** Wednesday, November 07, 2018 4:22:50 PM

Aaron,

As per our discussion this morning regarding depth to groundwater in Section 2, T15S, R37E in Lea County, New Mexico, the depth to water in this area should approximately 70 to 75 feet bgs. This depth is based on monitor wells in the area.

Thanks,

Camílle J. Bryant

Remediation Supervisor
Plains All American
505 N. Big Spring, Suite 600
Midland, Texas 79701
Office: 432.221.7924
Cell: 575.441.1099

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### **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 To

Q64 Q16 Q4 Sec Tws Rng

X Y

L 01283 3 2 11 15S 37E

671012 3656515\*

9

Driller License: 33 Driller Compan

**Driller Company:** TATUM CLAUDE E.

**Driller Name:** CLAUDE TATUM

**Drill Start Date:** 10/20/1951

**Drill Finish Date:** 

10/23/1951

**Plug Date:** 

C1 11

Log File Date:

02/18/1952 **PCW Rcv Date:** 

02/02/1953

120 feet

Source:

Shallow

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

**Estimated Yield:** 

**Depth Water:** 

40 feet

Water Bearing Stratifications:

8.00

Top Bottom Description

40

120 Sandstone/Gravel/Conglomerate

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1/5/22 8:24 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



### **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

L 01323

15S 37E

671415 3656520\*

**Driller License:** 35 **Driller Company:** 

AQUA DRILLING CO.

**Driller Name:** 

TATUM, ROY L.

**Drill Finish Date:** 

11/30/1951

**Plug Date:** 

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

11/28/1951 01/28/1952

**PCW Rcv Date:** 

Depth Well:

02/20/1957

Source:

Shallow

7.00

**Estimated Yield:** 

**Pump Type: Casing Size:**  Pipe Discharge Size:

120 feet

**Depth Water:** 

32 feet

Water Bearing Stratifications:

Top	Bottom	Description
32	33	Sandstone/Gr

Sandstone/Gravel/Conglomerate 65 Sandstone/Gravel/Conglomerate 88 Sandstone/Gravel/Conglomerate

110 Sandstone/Gravel/Conglomerate

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<sup>\*</sup>UTM location was derived from PLSS - see Help



### **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

Kiig

Y

L 01324 1 2 11 15S 37E

671004 3656917\*

**Driller License:** 35 **Driller Company:** AQUA DRILLING CO.

**Driller Name:** TATUM, ROY L.

**Drill Start Date:** 12/26/1951 **Log File Date:** 01/28/1952

7.00

**Drill Finish Date:** 

12/27/1951 Plug Date:

ıg Date:

Shallow

Log File Date:
Pump Type:

PCW Rcv Date:
Pipe Discharge Size:

08/20/1953 **Source:** 

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

120 feet

Depth Water:

32 feet

Water Bearing Stratifications:	Тор	Bottom	Description
	32	33	Sandstone/Gravel/Conglomerate
	65	67	Sandstone/Gravel/Conglomerate
	88	90	Sandstone/Gravel/Conglomerate
	110	120	Sandstone/Gravel/Conglomerate

<sup>\*</sup>UTM location was derived from PLSS - see Help

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1/5/22 8:25 AM



### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

X

L 07610

11 15S 37E

671012 3656515\*

**Driller License:** 421 **Driller Company:** 

GLENN'S WATER WELL SERVICE

**Driller Name:** 

GLENN, CLARK A."CORKY" (LD)

**Drill Finish Date:** 

02/12/1977

**Plug Date:** 

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

02/12/1977 10/17/1977

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

100 feet

Depth Water:

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<sup>\*</sup>UTM location was derived from PLSS - see Help



### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

NA L 13629 POD7 2 1 2 11 15S 37E

671073 3657109

**Driller Name:** WHITE, JOHNNOWN.GENER

**Drill Start Date:** 04/14/2020 **Drill Finish Date:** 04/15/2020 **Plug Date:** 

Log File Date: 05/21/2020 PCW Rcv Date: Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 2.00 Depth Well: 90 feet Depth Water: 73 feet

Water Bearing Stratifications: Top Bottom Description

35 90 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

90

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60

2/4/22 7:45 AM



### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

671100

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng

 NA
 L 13629 POD8
 2 1 2 11 15S 37E

X Y

3656952

Driller License: 1456 Driller Company: WHITE DRILLING COMPANY

**Driller Name:** WHITE, JOHNNOWN.GENER

**Drill Start Date:** 04/13/2020 **Drill Finish Date:** 04/16/2020 **Plug Date:** 

**Log File Date:** 05/21/2020 **PCW Rcv Date: Source:** Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 2.00 Depth Well: 90 feet Depth Water: 69 feet

Water Bearing Stratifications: Top Bottom Description

43 90 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom
60 90

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### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

3657002 NA L 13629 POD10 11 15S 37E 671037 **Driller Company:** 

**Driller Name:** WHITE, JOHNNOWN.GENER

**Drill Start Date:** 04/13/2020

1456

**Drill Finish Date:** 

04/15/2020

WHITE DRILLING COMPANY

Log File Date:

**Driller License:** 

05/21/2020

**PCW Rcv Date:** 

**Plug Date:** 

Shallow

Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

2.00

Depth Well:

90 feet

Depth Water:

70 feet

Water Bearing Stratifications:

**Top Bottom Description** 

44

90 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top **Bottom** 60 90

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NA

#### 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 11 15S 37E

X

3657035 671184

**Driller License:** 1456 **Driller Company:** 

WHITE DRILLING COMPANY

**Driller Name:** WHITE, JOHNNOWN.GENER

L 13629 POD11

**Drill Start Date:** 04/13/2020

2.00

**Drill Finish Date:** 

04/16/2020

**Plug Date:** 

Shallow

Log File Date:

05/21/2020 **PCW Rcv Date:**  Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

90 feet

Depth Water:

71 feet

Water Bearing Stratifications:

**Top Bottom Description** 

32

90 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top **Bottom** 60 90

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2/4/22 7:48 AM



### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

NA L 13629 POD12

2 1 2 11 15S 37E

671138 3657111

**Driller License:** 1456

2.00

04/14/2020

Driller Company:

Pipe Discharge Size:

WHITE DRILLING COMPANY

Driller Name:

WHITE, JOHNNOWN.GENER

**Drill Finish Date:** 

04/16/2020 **Plug Date:** 

Source:

Shallow

Log File Date:
Pump Type:

**Drill Start Date:** 

05/21/2020 **PCW Rcv Date:** 

**Estimated Yield:** 

d:

Casing Size:

Depth Well:

90 feet

**Depth Water:** 72 feet

Water Bearing Stratifications: T

Top Bottom Description

33 90 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

60 90

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### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

NA L 13629 POD13 2 1 2 11 15S 37E 671093 3657074

**Driller License:** 1456 **Driller Company:** WHITE DRILLING COMPANY

**Driller Name:** WHITE, JOHNNOWN.GENER

**Drill Start Date:** 03/10/2020 **Drill Finish Date:** 04/16/2020 **Plug Date:** 

**Log File Date:** 04/28/2020 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 4.00 Depth Well: 90 feet Depth Water: 70 feet

Casing Perforations: Top Bottom

60 90

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# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

NA L 13629 POD14 2 1 2 11 15S 37E 671112

2 3657085

Driller License: 1456 Driller Company: WHITE DRILLING COMPANY

**Driller Name:** WHITE, JOHNNOWN.GENER

**Drill Start Date:** 03/10/2020 **Dri** 

**Drill Finish Date:** 04

04/16/2020 **Plug Date:** 

Log File Date: 04/28/2020 PCW Rcv Date: Source

Source:

Pump Type:

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

90 feet **Depth Water:** 

70 feet

Shallow

Water Bearing Stratifications:

4.00

Top Bottom Description

90 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

60 90

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36

2/4/22 7:48 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

X

NA

L 13629 POD16

11 15S 37E

3657050 671094

**Driller License:** 

**Drill Start Date:** 

1456

**Driller Company:** 

WHITE DRILLING COMPANY

**Driller Name:** 

WHITE, JOHNNOWN.GENER

03/10/2020

4.00

**Drill Finish Date:** 

04/16/2020 **Plug Date:** 

Log File Date:

04/28/2020

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

90 feet

Depth Water:

70 feet

Water Bearing Stratifications:

**Top Bottom Description** 

35

60

90 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top **Bottom** 

90

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

NA L 13692 POD9 2 1 2 11 15S 37E 671040 3657045

**Driller License:** 1456 **Driller Company:** WHITE DRILLING COMPANY

**Driller Name:** WHITE, JOHNNOWN.GENER

**Drill Start Date:** 04/14/2020 **Drill Finish Date:** 04/15/2020 **Plug Date:** 

Log File Date: 05/21/2020 PCW Rcv Date: Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 2.00 Depth Well: 90 feet Depth Water: 70 feet

Water Bearing Stratifications: Top Bottom Description

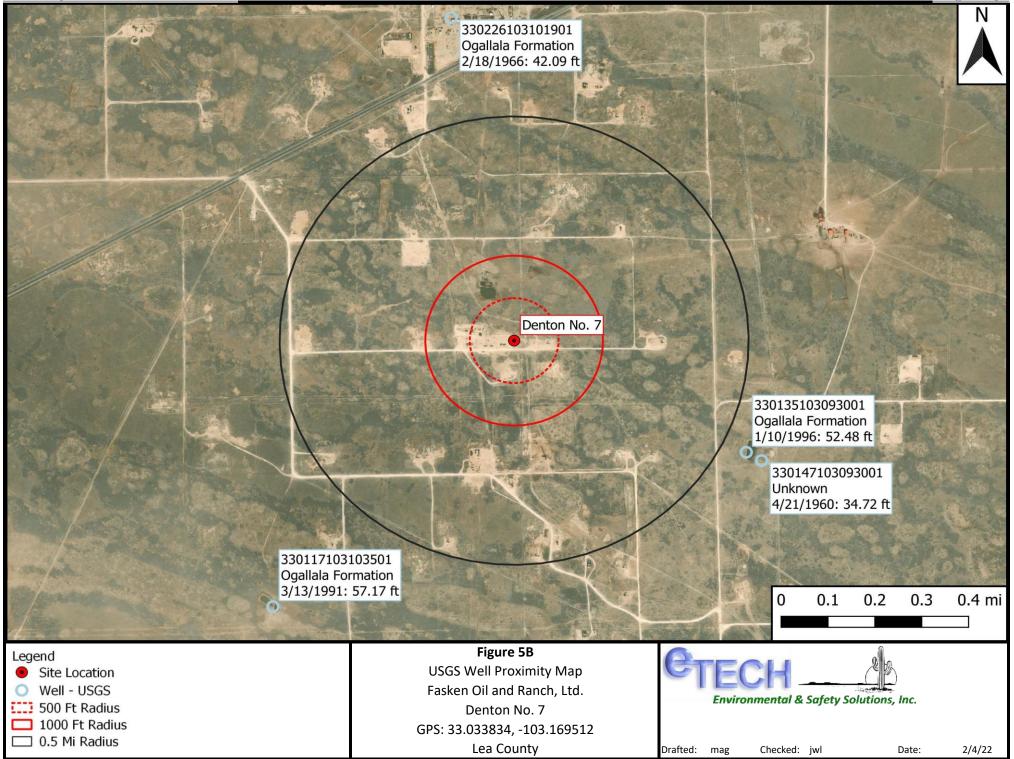
25 90 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom
60 90

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# **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geogra	phic Area:		
	Groundwater	✓ United	d States	~ [	GO

Click for News Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

**Agency code =** usgs **site\_no list =** • 330117103103501

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

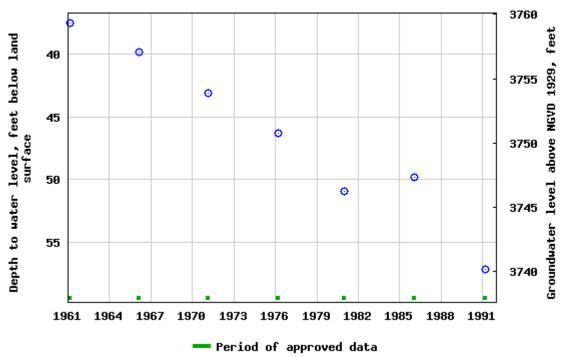
## USGS 330117103103501 15S.37E.11.333324

Available data for this site G	roundwater:	Field measurements		GO
Lea County, New Mexico				
Hydrologic Unit Code 120800	003			
Latitude 33°01'31", Longitud	de 103°1	0'41" NAD27		
Land-surface elevation 3,797	7.10 feet	above NGVD29		
The depth of the well is 80 fe	et below	land surface.		
This well is completed in the	High Plai	ns aquifer (N100	HGH	PLN) national aquifer.
This well is completed in the	Ogallala	Formation (1210	GLL)	local aquifer.

## **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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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: 2022-01-05 10:03:39 EST

0.6 0.53 nadww01





USGS Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geographic Area:	
	Groundwater ~	United States	GO

Click for News Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

# Search Results -- 1 sites found

**Agency code** = usgs **site\_no list** = • 330135103093001

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

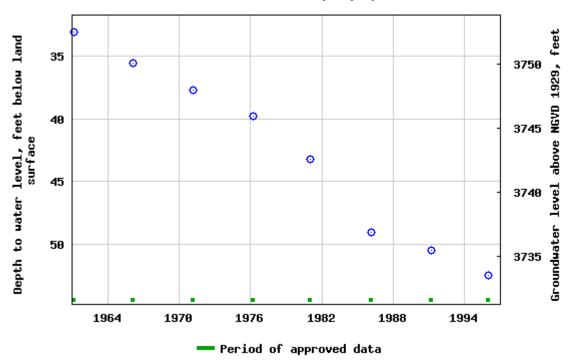
## USGS 330135103093001 15S.37E.12.313221

Available data for this site	Groundwater:	Field measureme	nts 🔻	<b>∕</b>		
Lea County, New Mexico						
Hydrologic Unit Code 12080	003					
Latitude 33°01'48", Longitu	ıde 103°0	9'38" NAD27				
Land-surface elevation 3,78	5.80 feet	above NGVD2	9			
The depth of the well is 120	feet belov	w land surface				
This well is completed in the	e High Plai	ns aquifer (N1	.00HC	GHPLN) nati	onal aquifer.	
This well is completed in the	e Ogallala	Formation (12	10Gl	LL) local aqı	uifer.	

## **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

#### USGS 330135103093001 155.37E.12.313221



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

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U.S. Department of the Interior | U.S. Geological Survey

**Title: Groundwater for USA: Water Levels** 

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

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

Page Last Modified: 2022-01-05 10:03:39 EST

0.58 0.51 nadww01





USGS Home Contact USGS Search USGS

## **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geographic Area:	graphic Area:		
	Groundwater ~	United States		GO	

Click for News Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

**Agency code =** usgs **site\_no list =** • 330147103093001

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 330147103093001 15S.37E.12.311

Available data for this site Groundwater: Field measurements 

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 33°01'47", Longitude 103°09'36" NAD27

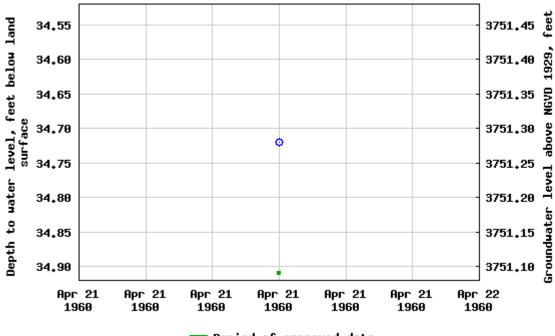
Land-surface elevation 3,786 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

Output formats

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





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
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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: 2022-01-05 10:03:40 EST

0.65 0.54 nadww01





USGS Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

USGS Water Resources	Data Category:		Geographic Area:		
	Groundwater	~	United States	<b>~</b>	GO

Click for News Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

**Agency code** = usgs **site\_no list** = • 330226103101901

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

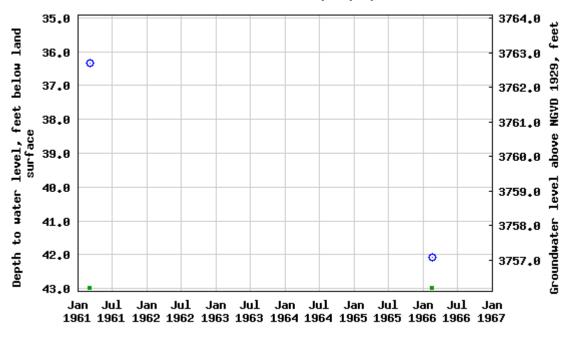
## USGS 330226103101901 15S.37E.02.324214

Available data for this site G	roundwater:	Field measurements	<b>∨</b>	
Lea County, New Mexico				
Hydrologic Unit Code 120800	003			
Latitude 33°02'39", Longitu	de 103°10	D'16" NAD27		
Land-surface elevation 3,799	9.10 feet a	above NGVD29		
The depth of the well is 120	feet belov	v land surface.		
This well is completed in the	High Plair	ns aquifer (N100	HGHPLN)	national aquifer.
This well is completed in the	Ogallala I	Formation (1210	GLL) loca	l aquifer.

# **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

#### USGS 330226103101901 155.37E.02.324214



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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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: 2022-01-05 10:03:41 EST

0.59 0.54 nadww01



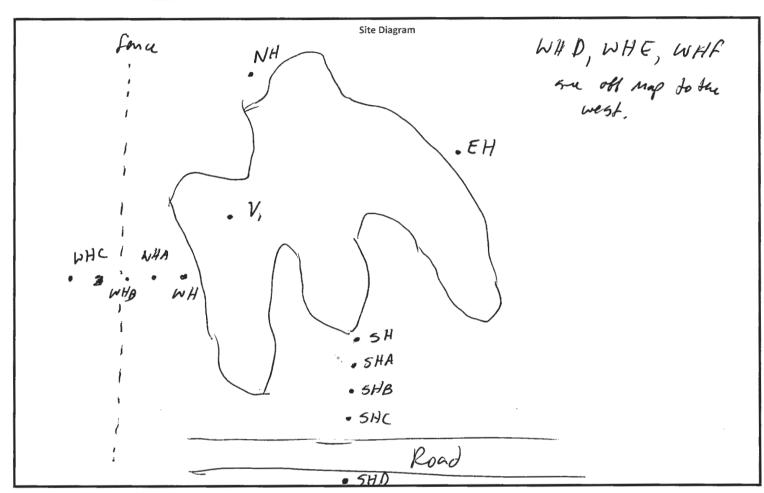
# Appendix B Field Data and Soil Profile Logs



**Initial Release Assessment Form** 

	Date:	1/12/22	
Level:	600 mg/k	g Cl-, 100 mg/kg TPH	

Project: Denton No. 7 Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH
Project Number: 15435 Latitude: 33.033834 Longitude: -103.169512



Notes:	Pad	contaminator	to appear	is achied of	600 ppm C)	/
		NASS STANIERS	- PUNILAN	m 13 SCN W. J.	yf-\$1-1	
ength:	1201	~Width: /00	~Area:	4980 sq. fl.	~Depth: /	
	100	, J			,	Yes No

~Length: $120^{\prime}$ ~Width: $100^{\prime}$ ~Area: $100^{\prime}$ %0 $50^{\prime}$ $100^{\prime}$ ~Depth: $100^{\prime}$		
	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?		
Necessary Samples Field Screened and on Ice?		
Sample and Field Screen Data Entered on Sample Log?		
Was horizontal and vertical delineation achieved?		



# Sample Log

Date:

te: ///7/7**2** 

Project: Denton No. 7

Project Number: 15435 Latitude: 33.033834 Longitude: -103.169512

Sample ID	PID/Odor	Chloride Conc.	GPS
1/1 @ 1	1/25	5.6 104 5.0 888	
VICZ	1/25	5.0 888	
VI C 3'	?	3.8 548	new bottle
NH @ 0'		3.0 288 394	
NH @ 1'		7.8 344	
EH CO'		1.8 172	
EH CI		2,8 344	
WH @ O!	1/15	3.6 5/6	
WH e1	1/15	7.6 5 7 2572	
SH e 0'		40 620	
SH e1'		3.4 468	
SHA COI		5.2 996	
SAA er		5.0 924 4.4 732	
SHB @ 0'		9.9 732	
5/1B @ 1		4.8 856	
OSHC e o'		3.4 468	
1571 6		9.4 /32	
WHAEO	7	80 >2572	
LWHA CI	у	7.6 2376	
SHO @ O'		2.4 268	
5HD C 1	24 /	3.0 384 8.0 72572	
WHB 60'	Mi /	8.0 72572	
WHBEI	<del></del>	7.2 2049	
WHCEDI	$+$ $\subseteq$ $-$	70 1900	
WHCAI		16,8 1768	
WHO @ ol	in teach	6.4 (532 74 7704	
WHID EIL	Skight	1.7 LW9	
WHE ¢ o'		7 25/2	
WHE OF		7 2572	
WILL CO	~	2.2 236	
M 14 - E 11 6"		2.2 236	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



# **Soil Profile**

Date: //2/22

: Denton No. 7 Number:	15435	Latitude:	33.033834	Longitude:	-103.169512
	10-00		33.033037		2001200022
ft. bgs)			De	scription	
1	Calia	Pad Black goods	20.	3011011	
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# Appendix C Laboratory Analytical Reports



January 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DENTON #7

Enclosed are the results of analyses for samples received by the laboratory on 01/13/22 14:50.

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:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022 Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: V 1 @ 1' (H220150-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	736	16.0	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	270	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	19.2	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	98.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	108 9	% 59.5-14	2						

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Celey D. Keene



01/12/2022

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date: Reported: 01/18/2022 Sampling Type:

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: V 1 @ 2' (H220150-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	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	592	16.0	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	96.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.3	% 59.5-14	12						

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Celeg & Frence



01/12/2022

#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date:

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: NH @ 0' (H220150-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	0.055	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	0.218	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	128	16.0	01/17/2022	ND	416	104	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	01/18/2022	ND	210	105	200	3.08	
DRO >C10-C28*	197	10.0	01/18/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	25.4	10.0	01/18/2022	ND					
Surrogate: 1-Chlorooctane	92.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	108	% 59.5-14	2						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: FASKEN O&R - LEA CO NM

mg/kg

#### Sample ID: NH @ 1' (H220150-04)

BTEX 8021B

	9,	9	7	7: : : : 0					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	84.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.9	% 59.5-14	2						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 15435

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: EH @ 0' (H220150-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	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	64.0	16.0	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.6	% 59.5-14	2						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: FASKEN O&R - LEA CO NM

ma/ka

#### Sample ID: EH @ 1' (H220150-06)

RTFY 8021R

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
ene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
lbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
l Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
I BTEX	<0.300	0.300	01/17/2022	ND					
ogate: 4-Bromofluorobenzene (PI	99.2	% 69.9-14	10						
ride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
oride	16.0	16.0	01/17/2022	ND	416	104	400	0.00	
8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
C6-C10*	<10.0	10.0	01/17/2022	ND	210	105	200	3.08	
>C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
ogate: 1-Chlorooctane	100	% 66.9-13	26						
ogate: 1-Chlorooctadecane	99.2	% 59.5-14	!2						
ogate: 1-Chlorooctane	100	% 66.9-13	26	ND					

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 15435

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: SH D @ 0' (H220150-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 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	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	96.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.6	% 59.5-14	2						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: FASKEN O&R - LEA CO NM

mg/kg

#### Sample ID: SH D @ 1' (H220150-08)

BTEX 8021B

DILX GOZID	mg/	ng .	Alldiyzo	a by. 1-15/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	128	16.0	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	81.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.6	% 59.5-14	2						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: WH F @ 0' (H220150-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	< 0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	32.0	16.0	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	115	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	113	% 59.5-14	22						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/13/2022 Sampling Date: 01/12/2022

Reported: 01/18/2022 Sampling Type: Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: WH F @ 1' (H220150-10)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	01/17/2022	ND	416	104	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	01/17/2022	ND	210	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	191	95.3	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	84.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.6	% 59.5-14	2						

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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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Released to Imaging: 3/21/2022 9:36:58 AM

# Received by OCD: 2/17/2022 8:17:47 AM

# RDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Composition	(5/5) 393-2326 FAX (5/5) 39	A SHARLING TO SHARLING THE SHAR	1000	2	-				0//	1 70		:				ALIA	Vel	e pr	OUE	CT	Pa	ge 1 o	1 1
Company Name	·	Solution	s, in	Ú.			D.C		-III	L TO		1			Т	ANA	LTOI	O KE	UUE	31	_		
Project Manage	•					-	P.O. #:																
Address: 26							Company Fasken (				O&R	-											
City: Hobbs	State: NN	1 Zip	: 88	240			Attn:																
Phone #: (575) 264-9884 Fax #:						Add	dress:																
Project #: 15435 Project Owner: Fasken O&R						City	y:																
Project Name: Denton No. 7					8	Sta	te:	Z	Zip:		9	2W	21B										
Project Locatio	n: Rural Lea, NM						Pho	one #:				Chloride	801	(8)									
Sampler Name:	Matthew Grieco						Fax	(#:				흥	TPH (8015M)	BTEX (8021B)									
FOR LAB USE ONLY		$\top$	T	N	MATRI	-	the Real Property lies	PRESER	RV.	SAMPL	ING	1	12	BT									
HAZOIS		OR (C)OMP.	ERS	ATER																			
Lab I.D.	Sample I.D.	(G)RAB OR	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME												
)	V1 @ 1'	G	-	-	Х	0,	Ĭ	X	_	1/12/22		Х	Х	Х									
Z	V1 @ 2'	G	1		Х			Х		1/12/22		Х	Х	Х									
3	NH @ 0'	G	1		Х			Х		1/12/22		Х	Х	Х									
4	NH @ 1'	G	1		X			X		1/12/22		Х	. X	Х									
5	EH @ 0'	G	1		Х			Х		1/12/22		Х	Х	Х									
10	EH @ 1'	G	1		Χ			X		1/12/22		Х	X	Х									
7	SH D @ 0'	G	1		Χ			X		1/12/22		Х	X	X									
8	SH D @ 1'	G	1		Χ			X		1/12/22		Х	X	X									
9	WH F @ 0'	G	1		Х			X		1/12/22		Х	X	X									
10	WH F @ 1'	G	1		X			X		1/12/22		Х	X	X									
analyses. All claims includ service. In no event shall 0	nd Damages. Cardinal's liability and client's exclusive reme- ing those for negligence and any other cause whatsoever s ardinal be liable for incidental or consequental damages, in ing out of or related to the performance of services hereund	dy for any cla hall be deem including without der by Cardin	im arisi ed waiv out limit al, rega	ed unless ma ation, busines	ased in c ide in wri	ting and ptions, lo	receiv	shall be limi ved by Cardii use, or loss	ited to to inal with of profit	the amount pai nin 30 days afte ts incurred by o	er completion of t client, its subsidia	r the he applicat iries, ise.			No	Add'I	Phone	#:					
Refinquished B	Time: 1450 ( lauran			A.	d	lda	B	fil	Fax Result:														
Time:  Delivered By: (Circle One) -3.4°						act	_		Initia	D BY:	Please email results and copy of CoC to pm@etechenv.com.												



February 01, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: DENTON #7

Enclosed are the results of analyses for samples received by the laboratory on 01/27/22 15:05.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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 JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 01/27/2022
 Sampling Date:
 01/27/2022

 Reported:
 02/01/2022
 Sampling Type:
 Soil

Project Name: DENTON #7 Sampling Condition: Cool & Intact
Project Number: 15435 Sample Received By: Tamara Oldaker

Project Location: FASKEN O&R - LEA CO NM

#### Sample ID: NH B @ 0' (H220326-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	2.07	103	2.00	4.05	
Toluene*	<0.050	0.050	01/28/2022	ND	1.99	99.7	2.00	4.23	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	3.73	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.91	98.5	6.00	4.34	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	% 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	01/31/2022	ND	416	104	400	3.92	
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	01/31/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	223	112	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					
Surrogate: 1-Chlorooctane	75.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.3	% 59.5-14	2						

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Celey D. Keene



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celeg D. Freene

Page 4 of 4

# Received by OCD: 2/17/2022 8:17:47 AM

# ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

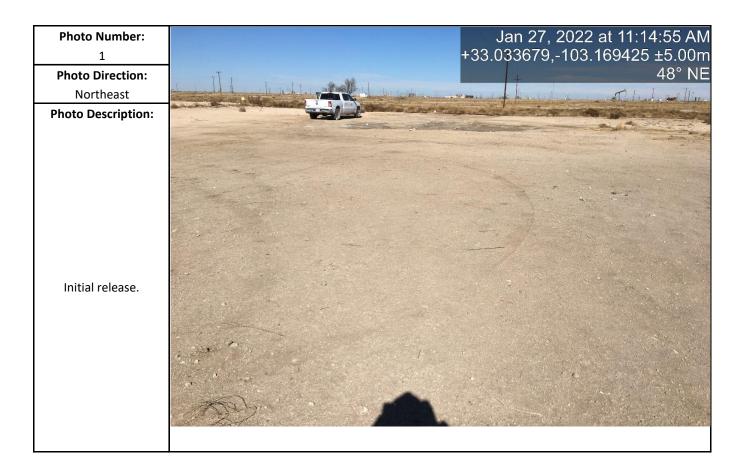
Company Nan	e: Etech Environme	ntal & Safety Sol	ution	s, Ir	nc.				2			DI	LLTO	~~~~	6									Р	age 1	of 1
Project Manag	er: Joel Lowry								P	.0. ‡	100	DI	LL TO		1	_			ANA	LYS	IS R	EQUI	EST			
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Project #: 15		Fax #:		_					Address:																	
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	Project Location: Rural Lea, NM Sampler Name: Matthew Grieco							Pł	none	e #:				Chloride	TPH (8015M)	BTEX (8021B)							1			
FOR LAB USE ONLY	Matthew Grieco								Fa	1x #:					Ĕ	) H	×									1
POR DAB USE ONLY						М	ATR	IX		PR	ESE	RV.	SAMPL	ING	ľ	면	BTE	1								
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:				DATE	TIME												
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EASE NOTE: Liability an	Damages. Cardinal's liability and clie g those for negligence and any other c	ent's exclusive remedy for an	y claim	arisino	wheth	er hase	d in cor	atract o	r tort	shall b	- E-3-	_														
rivice. In no event shall Ca	g those for negligence and any other or rdinal be liable for incidental or conseq g out of or related to the performance	quental damages, including v of services hereunder by Ca	without rdinal,	limitati regard	on, bus less of	iness in whether		g and i	oceis.	eu by c	-argina	ai with	In 30 days after a	completion of the	e applicable s,	,										
delinquished By	ha	Date:	Rec		1/2	v. Me	eti	a.	d.	lla	la,	K	100	Phone Resi Fax Result: REMARKS:		□ Yes □ Yes			Add'l F Add'l F	hone #	ŧ:					
Delivered By: Sampler - UPS FORM-00		Time: 1 e) C-0 3.6ct	58	3	Co	mple ool Yes No	Intac	Yes	n	CI	(Ini	KEI itial	BY: F	Hold samp Please em		sults a	ind c	opy of	CoC	to pm	@ete	chenv	.com.			

Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

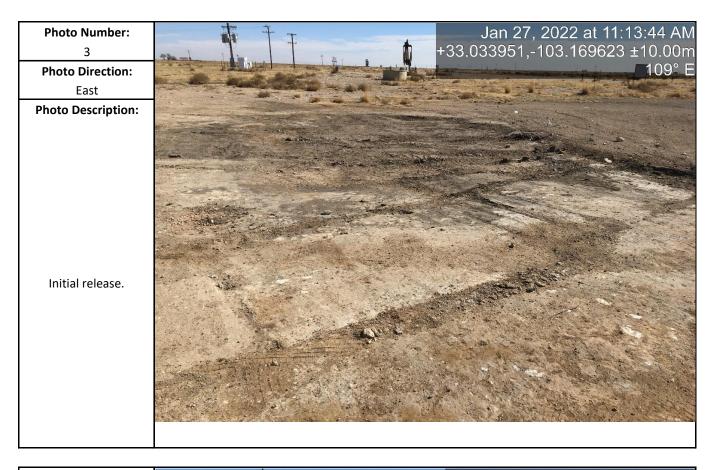
# Appendix D Photographic Log

# Photographic Log





# Photographic Log





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

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

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

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 82238

#### **CONDITIONS**

Operator:	OGRID:
FASKEN OIL & RANCH LTD	151416
6101 Holiday Hill Rd	Action Number:
Midland, TX 79707	82238
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
chensley	Closure report due 06/21/2022.	3/21/2022