# Remediation Summary & Variance Request

# Mewbourne Oil Company Dagger Draw Trunk Line

Eddy County, New Mexico
Unit Letter "O", Section 10, Township 20 South, Range 25 East
Latitude 32.580784 North, Longitude 104.470355 West
NMOCD Reference No. nAPP2409454303

Prepared By:

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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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# 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Variance Request* for the release site known as the Dagger Draw Trunk Line. Details of the release are summarized below:

Latitude:	32.58	0784	Longitude	-104.470355				
		Provide	ed GPS are in WGS84 for					
		aw Trunk Line	Site Type:	Pipeline				
Date Release Discovere	ed:	3/22/2024	API # (if appl	licable): N/A				
	ction	Township 20S	Range 25E	County Eddy				
Surface Owner: Sta		ederal Tribal		ame Willard Laurence David, et al./Henry Terpe	nin			
Crude Oil	Volume	Released (bbls)		Volume Recovered (bbls)				
X Produced Water	Volume	Released (bbls)	113	Volume Recovered (bbls) 85				
		oncentration of dissoluced water > 10,00		X Yes No N/A				
Condensate	Volume	Released (bbls)		Volume Recovered (bbls)				
Natural Gas	Volume	Released (Mcf)		Volume Recovered (Mcf)				
Other (describe)	Volume	/Weight Released		Volume/Weight Recovered				
Cause of Release: A check valve in the 4	l" poly SV	WD line developed a	a hole.					
		Ir	nitial Response	•				
X The source of the r	elease has	s been stopped.						
V TI.	has been	secured to protect hu	man health and the	environment.				
X The impacted area								

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

# 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	Yes X No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between 1,000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	Greater than 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Zero feet, overlying, or within area
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production or storage site?	X Yes No

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 Dagger Draw Trunk Line release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on May 6, 2024, an investigative soil boring was drilled nearby in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 55 feet bgs and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment. In addition, a groundwater gauging event conducted on May 9, 2024, confirmed that the borehole was dry. The location of the investigative soil bore is depicted in Figures 2A, 2B, and 4. A drilling log is provided in Appendix A.

A cave and karst study of the affected area was conducted by a third-party environmental contractor on July 16 and July 21, 2024. According to the *Cave and Karst Resource Inventory Report* dated August 23, 2024 (henceforth, "Karst Survey"), there are "no surface karst features within 200 feet (61 meters) of the spill delineation boundary. Pseudokarst (soil piping) was observed within the survey area. While not karst, soil piping still presents a trip and fall hazard for personnel, and tipping hazard for equipment and should be avoided if possible. The lack of surface karst features does not mean the area is not karstified and the survey area may still contain buried karst features." The *Karst Survey* is provided as Appendix F.

Additional 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 in Figures 1, 2A, 2B, and 4.

# 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Closure Criteria and NMOCD Reclamation Standards for the Dagger Draw Trunk Line release site are listed in the table on the following page.

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	600	600
Detroises 51 and	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
Between 51 and 75 (ft.)	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)

# 4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	X Yes No
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No
Was this release entirely contained within a lined containment area?	Yes X No
On what estimated date will (or did) the remediation commence?	3/27/2024
On what date will (or did) the final sampling or liner inspection occur?	7/31/2024
On what date will (or was) the remediation complete(d)?	7/31/2024
What is the total surface area (sq. ft.) in need of or that will eventually be reclaimed?	25,540
What is the total volume (cy) in need of or that will eventually be reclaimed?	3,784
What was the total surface area (sq. ft.) that has or will be remediated?	25,540
What was the total volume (cy) that has or will be remediated?	4,940
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	X Yes No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes X No
(In Situ) Soil Vapor Extraction	Yes X No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Yes X No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Yes X No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes X No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes X No
Other (Non-listed remedial process)	Yes X No
Which OCD approved facility was or will be used for off-site disposal?	R360 Halfway Facility
NMOCD Disposal Facility ID?	fEEM0112334510
Summarize any additional remediation activities not included by answers above.	See below

On March 27, 2024, remediation activities commenced at the Dagger Draw Trunk Line release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or 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 chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria. 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. A summary of soil sampling events conducted to date is provided in the table on the following page.

<sup>\*\*</sup> Environmental Protection Agency

<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.

# **Summary of Soil Sampling Events**

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	25,200	FL 88 @ 8'	4/24/2024	8	In-Situ
ТРН	180	FL 82 @ 8'	4/24/2024	8	In-Situ
GRO+DRO	154	FL 82 @ 8'	4/24/2024	8	In-Situ
BTEX	8.27	FL 70 @ 8'	4/24/2024	8	In-Situ
Benzene	0.0700	FL 70 @ 8'	4/24/2024	8	In-Situ

Please reference Table 1 for additional information.

On April 8, 2024, Etech collected 57 confirmation soil samples (FL 1 @ 3' through FL 10 @ 3', FL 12 @ 3' through FL 23 @ 3', FL 25 @ 3' through FL 29 @ 2.5', FL 32 @ 3' through FL 41 @ 2', FL 43 @ 2.5', FL 45 @ 4', FL 46 @ 2.5', FL 47 @ 3', FL 49 @ 2.5', NW 1 through NW 5, EW 1, EW 2, EW 3, SW 1 through SW 4, WW 1, WW 2, and WW 3) from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of sample FL 18 @ 3', which exceeded the NMOCD Closure Criterion for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL 18 @ 3'.

On April 9, 2024, Etech collected two (2) confirmation soil samples (FL 24 @ 5' and FL 42 @ 6') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On April 10, 2024, Etech collected six (6) confirmation soil samples (FL 11 @ 7', FL 30 @ 8', FL 31 @ 8', FL 48 @ 7.5', FL 50 @ 8', and FL 51 @ 8') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On April 11, 2024, Etech collected 13 confirmation soil samples (FL 52 @ 6' through FL 64 @ 8') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On April 16, 2024, Etech collected eight (8) confirmation soil samples (FL 18 @ 3.5', NW 6, NEW 1, NEW 2, NEW 3, SWW 1, SWW 2, and SWW 3) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On April 24, 2024, Etech collected 28 confirmation soil samples (FL 65 @ 6' through FL 92 @ 8') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, with the exception of sample FL 82 @ 8', which exceeded the NMOCD Closure Criterion for TPH. Chloride concentrations in soil samples FL 68 @ 8' through FL 92 @ 8' exceeded the NMOCD Closure Criterion.

On April 24, 2024, Etech advanced three (3) test trenches (TT 1, TT 2, and TT 3) in an effort to delineate the vertical extent of impacted soil in the areas characterized by soil samples FL 68 @ 8' through FL 92 @ 8'. During the advancement of the test trenches, soil samples were collected at increments of two (2) feet 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. Based on field test observations and field test data, a total of 24 delineation soil samples (TT 1 @ 8' through TT 1 @ 28', TT 2 @ 8' through TT 2 @ 22', and TT 3 @ 8' through TT 3 @ 16') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from approximately 14 feet bgs in trench TT 3 to approximately 28 feet bgs in trench TT 1. The horizontal extent of affected area was previously delineated via confirmation wall soil samples NW 6, NEW 1, NEW 2, NEW 3, SWW 1, SWW 2, and SWW 3.

The dimensions of the excavated area are approximately 236 to 354 feet in length, 14 to 110 feet in width, and 2 to 12.5 feet in depth. To date, Etech has transported approximately 4,940 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal.

The extent of the excavated area and the locations of the test trenches and composite confirmation soil samples are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix G.

## 5.0 IN-SITU CHLORIDE MIGRATION MODELING

The affected area characterized by soil samples FL 68 @ 8' through FL 92 @ 8' and test trenches TT 1, TT 2, and TT 3 (henceforth, "Upper Excavation") is located within the bluff of an arroyo, which is inherently higher in elevation, of steeper grade, and more unstable than the surrounding topography. According to the afforementioned *Karst Survey*, "pseudokarst (soil piping) was identified within the aerial survey area, which may pose a hazard to equipment and personnel. Even though no surface karst features were found within the aerial karst survey boundary, this area has karst features nearby and may contain buried karst features....This area may be prone to rapid karst formation in the underlying stratigraphy and warrants careful planning and engineering to mitigate karst-forming processes that could be accelerated by poor planning and considerations." Excavation activities conducted to date have potentially further destabilized this inherently unstable area. In consideration of this information, Mewbourne Oil Company affirms that the Upper Excavation has been advanced to the extent practicable, and any excavation beyond eight (8) feet bgs poses a risk to human health and safety that exceeds the benefits of the removal of additional soil affected above the NMOCD Closure Criteria.

Etech utilized the EPA's Multimedia Exposure Assessment Model (MULTIMED) to determine if the chloride contamination remaining in-situ below eight (8) feet bgs in the Upper Excavation poses a threat to groundwater quality, as well as to simulate the efficacy of installing a clay liner on the floor of the excavated area. The most appropriate and conservative parameter values possible for the site were used for the assessment model in regard to depth to groundwater (56 feet bgs), depths investigated, etc. Additional parameter values were utilized that have been previously approved by the NMOCD as being representative of the general area and/or for simulating lined versus unlined excavations and/or oil and gas facilities. The model indicates the peak concentration of chloride in the underlying groundwater contributed by the contamination remaining in-situ would be approximately 166.8 mg/L in 500 years if a liner were installed on the floor of the excavation, versus 4,815 mg/L in 158 years if the excavation is not lined (see Appendix E).

Since the estimated peak concentration of chloride is below the standard of 250.0 mg/L specified in Section 20.6.2.3103 B.(1) NMAC, pursuant to Section 19.15.29.14.A(2) NMAC, the migration models effectively demonstrate that the current excavation depth of eight (8) feet bgs and the installation of a clay liner provide an "equal or better protection of fresh water, public health and the environment" as compared to a deeper excavation.

# 6.0 VARIANCE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	Yes X No
Requesting a remediation closure approval with this submission?	Yes X No
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No
Was this release entirely contained within a lined containment area?	Yes X No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	Yes X No
What was the total surface area (sq. ft.) remediated?	25,540
What was the total volume (cy) remediated?	4,940

Pursuant to Section 19.15.29.14 NMAC, Mewbourne Oil Company requests a variance to install a two (2) foot clay liner on the floor of the Upper Excavation (see Figure 3). The clay layer will be wheel-rolled and compacted following installation. This engineered control is designed to inhibit the vertical migration of chloride contamination remaining in-situ and is additionally bolstered to an extent by the presence of naturally occurring soil layers composed of 10%-60% clay from approximately 15 to 55 feet bgs (see drilling log in Appendix A).

Mewbourne Oil Company also requests permission to backfill the lower portion of the excavation, characterized by sample points FL 1 @ 3' through FL 67 @ 8', NW 1 through NW 5, EW 1, EW 2, SW 1 through SW 4, WW 1, WW 2, and WW 3 (see Figure 3). Laboratory analytical results indicate that the affected area has been fully delineated both horizontally and vertically, and in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

# 7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	Yes X No
Requesting a reclamation approval with this submission?	Yes X No
Requesting a restoration complete approval with this submission?	Yes X No
What was the total surface area (sq. ft.) reclaimed?	0 (To be completed)
What was the total volume (cy) reclaimed?	0 (To be completed)

Upon receipt of all confirmation soil sample results and installation of the proposed clay liner, 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 areas will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads, pipeline rights-of-way, and/or lease roads will be revegetated with an agency and/or landowner-approved, certified weed-free seed mixture at a time conducive to germination. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

Upon completion of remediation and reclamation activities, a *Remediation Summary & Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

## 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Variance 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.

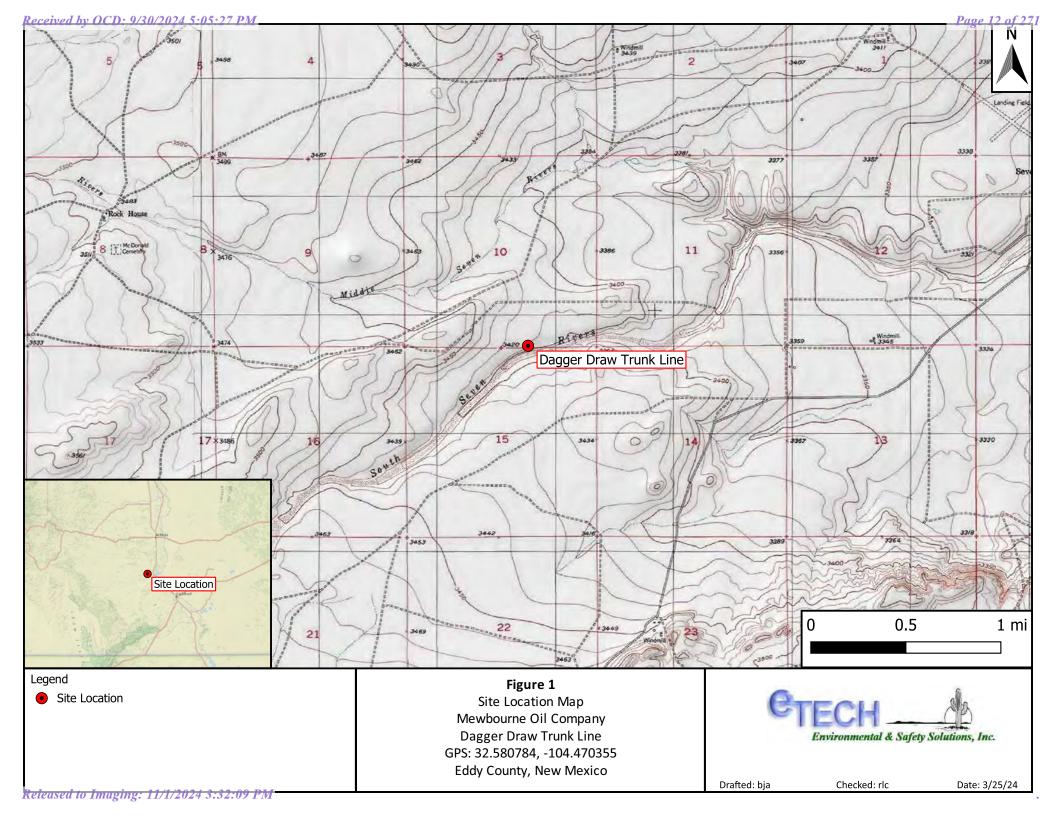
# 9.0 DISTRIBUTION

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

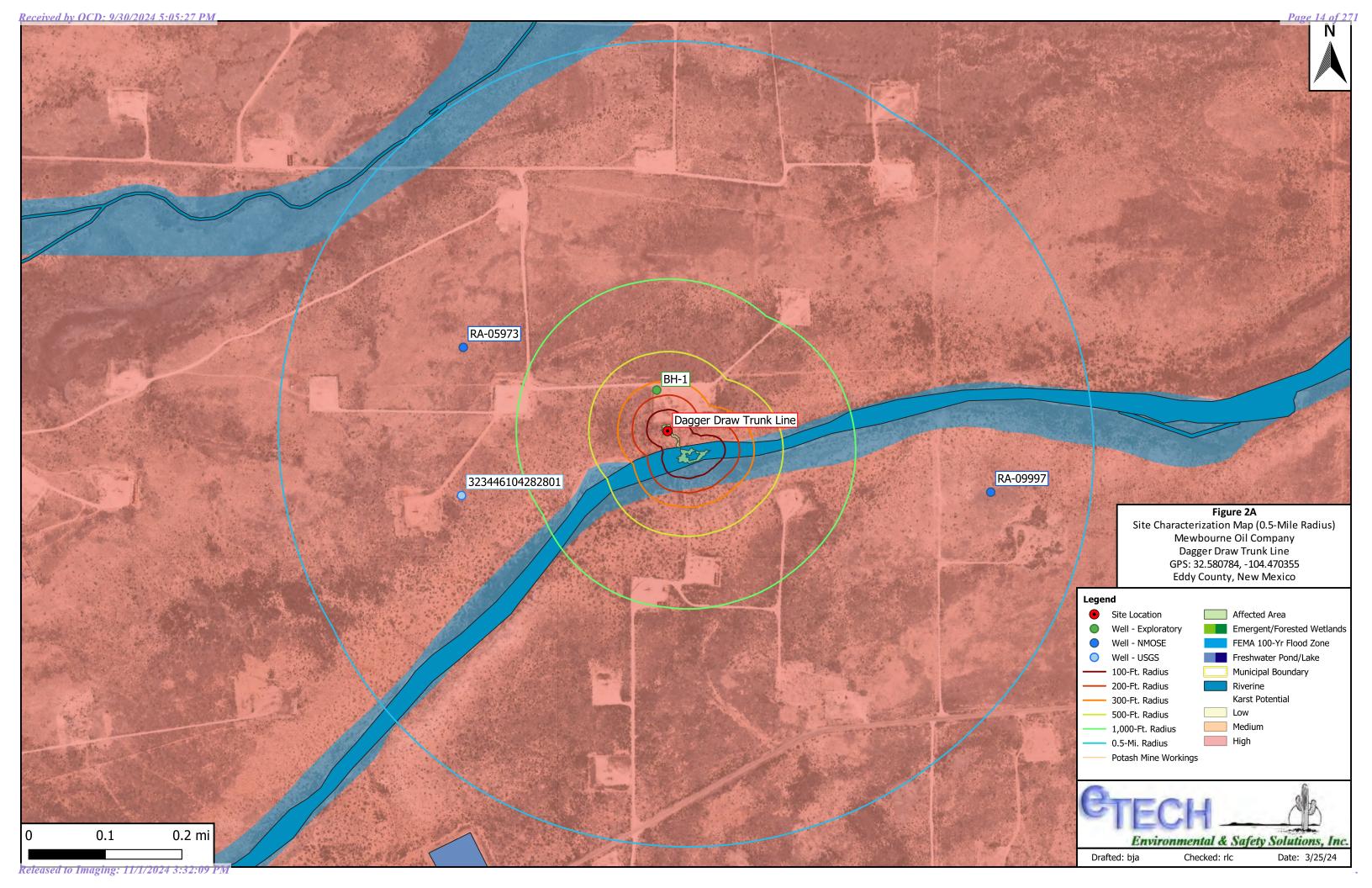
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

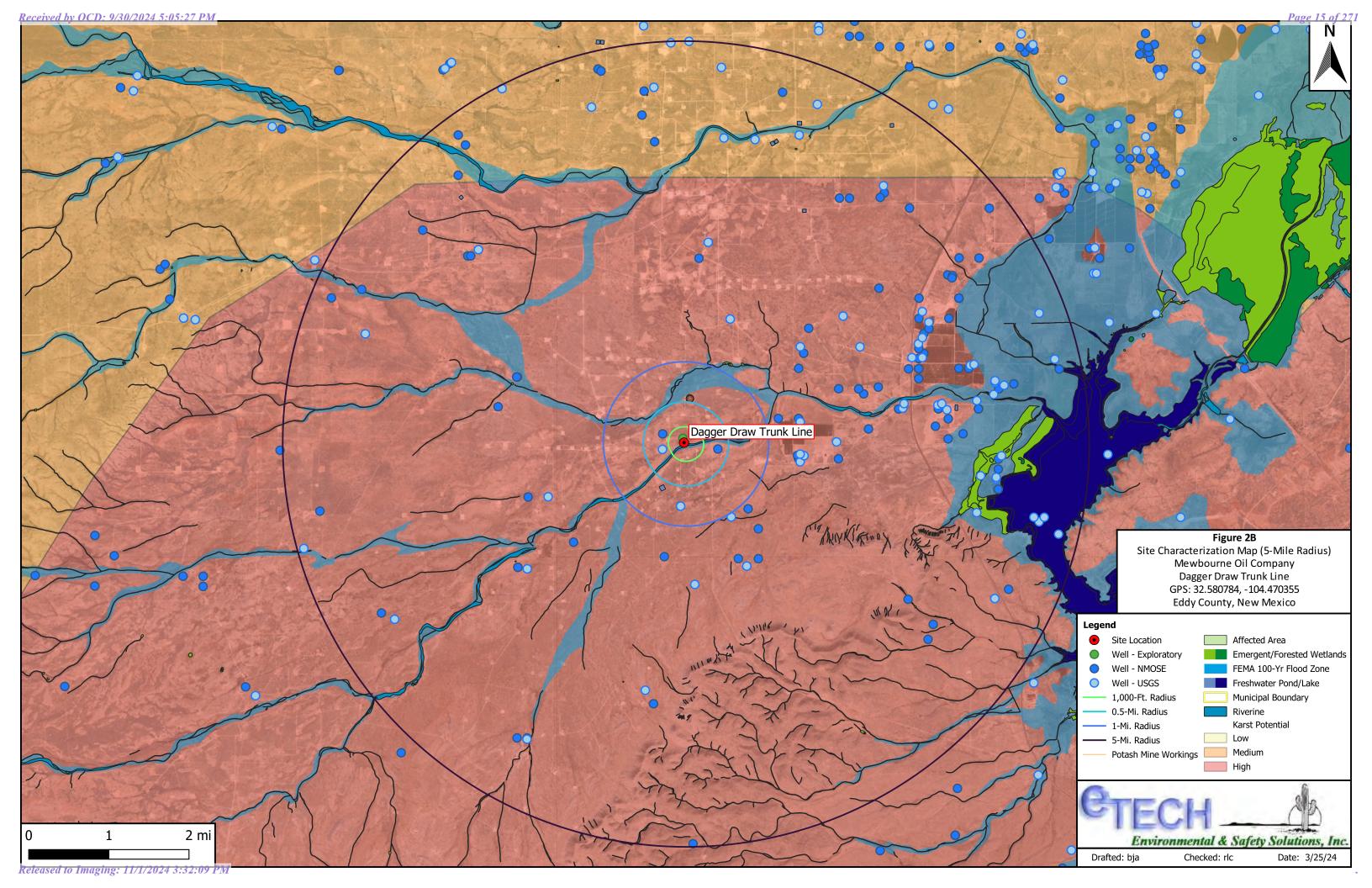
(Electronic Submission)

# Figure 1 Site Location Map

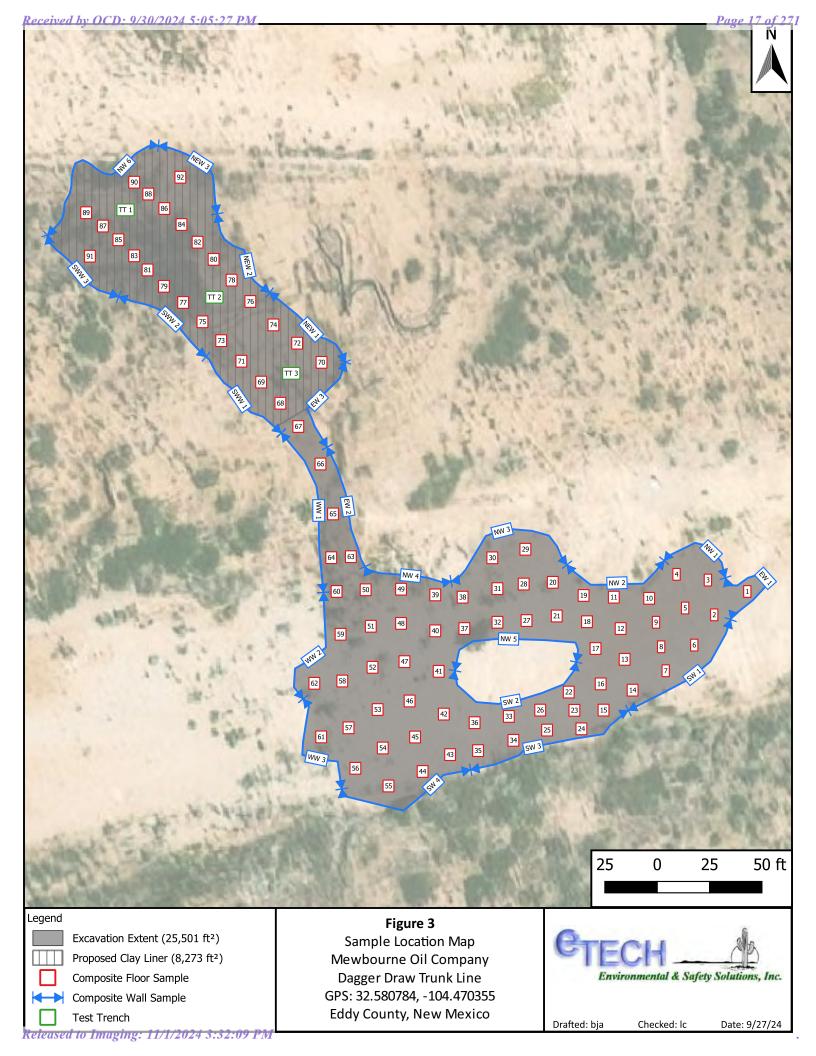


# Figures 2A & 2B Site Characterization Maps





# Figure 3 Sample Location Map



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

	Table 1										
	Concentrations of BTEX, TPH & Chloride in Soil										
					wbourne (	-	•				
				_	ger Draw						
				NMOCI	D Ref. #: n	APP2409	454303			T	ı
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 840	6 8021B		SW	846 8015M	Ext.	T-	4500 Cl
Sample ID	Date	Depth	Soil	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	TPH	Chloride
<b>-</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)	
			1		Delineation		T			T	T
TT 1 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	12.7	12.7	<10.0	12.7	22,400
TT 1 @ 10'	4/24/2024	10	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,600
TT 1 @ 12'	4/24/2024	12	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16,000
TT 1 @ 14'	4/24/2024	14	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,330
TT 1 @ 16'	4/24/2024	16	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
TT 1 @ 18'	4/24/2024	18	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,080
TT 1 @ 20'	4/24/2024	20	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
TT 1 @ 22'	4/24/2024	22	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,930
TT 1 @ 24'	4/24/2024	24	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,060
TT 1 @ 26'	4/24/2024	26	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	3,360
TT 1 @ 28'	4/24/2024	28	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	64.0
TT 2 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	30.6	30.6	<10.0	30.6	9,330
TT 2 @ 10'	4/24/2024	10	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,660
TT 2 @ 12'	4/24/2024	12	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
TT 2 @ 14'	4/24/2024	14	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,600
TT 2 @ 16'	4/24/2024	16	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,900
TT 2 @ 18'	4/24/2024	18	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	11,100
TT 2 @ 20'	4/24/2024	20	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,640
TT 2 @ 22'	4/24/2024	22	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT 3 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	928
TT 3 @ 10'	4/24/2024	10	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
TT 3 @ 12'	4/24/2024	12	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,460
TT 3 @ 14'	4/24/2024	14	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
TT 3 @ 16'	4/24/2024	16	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
					Excavation						
FL 1 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 2 @ 4.5'	4/8/2024	4.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 3 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 4 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	12.2	12.2	<10.0	12.2	192
FL 5 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	29.7	29.7	<10.0	29.7	368
FL 6 @ 4'	4/8/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 7 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 8 @ 5'	4/8/2024	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 9 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 11 @ 7'	4/10/2024	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 13 @ 4'	4/8/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 15 @ 4.5'	4/8/2024	4.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Dagger Draw Trunk Line
NMOCD Ref. #: nAPP2409454303

NMOCD Ref. #: nAPP2409454303											
	CD Closure C			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 840	6 8021B		SW	846 8015M	Ext.	1	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)
FL 16 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	512
FL 17 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 18 @ 3'	4/8/2024	3	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 18 @ 3.5'	4/16/2024	3.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 19 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 20 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 21 @ 4'	4/8/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 22 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 23 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	10.1	10.1	<10.0	10.1	192
FL 24 @ 5'	4/9/2024	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 25 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 26 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 27 @ 2.5'	4/8/2024	2.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 28 @ 2.5'	4/8/2024	2.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 29 @ 2.5'	4/8/2024	2.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 30 @ 8'	4/10/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 31 @ 8'	4/10/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 32 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	11.4	11.4	<10.0	11.4	112
FL 33 @ 2.5'	4/8/2024	2.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 34 @ 3'	4/8/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 35 @ 5'	4/8/2024	5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 36 @ 2.5'	4/8/2024	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 5'	4/8/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 3'	4/8/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 39 @ 4'	4/8/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 40 @ 3'	4/8/2024	3	In-Situ	<0.050	<0.300	<10.0	19.5	19.5	<10.0	19.5	128
FL 41 @ 2'	4/8/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 6' FL 43 @ 2.5'	4/9/2024	6	In-Situ In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0 384
FL 45 @ 2.5 FL 45 @ 4'	4/8/2024	2.5	_	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	
FL 45 @ 4 FL 46 @ 2.5'	4/8/2024 4/8/2024	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0 <20.0	<10.0	<30.0	128
FL 40 @ 2.3 FL 47 @ 3'		2.5	In-Situ	<0.050	<0.300	<10.0	<10.0		<10.0	<30.0	144
FL 47 @ 3 FL 48 @ 7.5'	4/8/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 48 @ 7.5 FL 49 @ 2.5'	4/10/2024	7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	4/8/2024	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 50 @ 8' FL 51 @ 8'	4/10/2024	8	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0 <10.0	<20.0 <20.0	<10.0	<30.0 <30.0	32.0
FL 51 @ 8 FL 52 @ 6'	4/10/2024 4/11/2024	6	In-Situ In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0 16.0
FL 52 @ 6 FL 53 @ 12.5	4/11/2024	12.5	In-Situ In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 53 @ 12.5 FL 54 @ 7'	4/11/2024	7	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 54 @ 7 FL 55 @ 11'	4/11/2024	11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 56 @ 7'	4/11/2024	7	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
17 30 @ /	+/ 11/ ZUZ4	/	111-91tu	\U.U.JU	\U.JUU	\10.U	\10.U	\ZU.U	\10.U	\JU.U	10.0

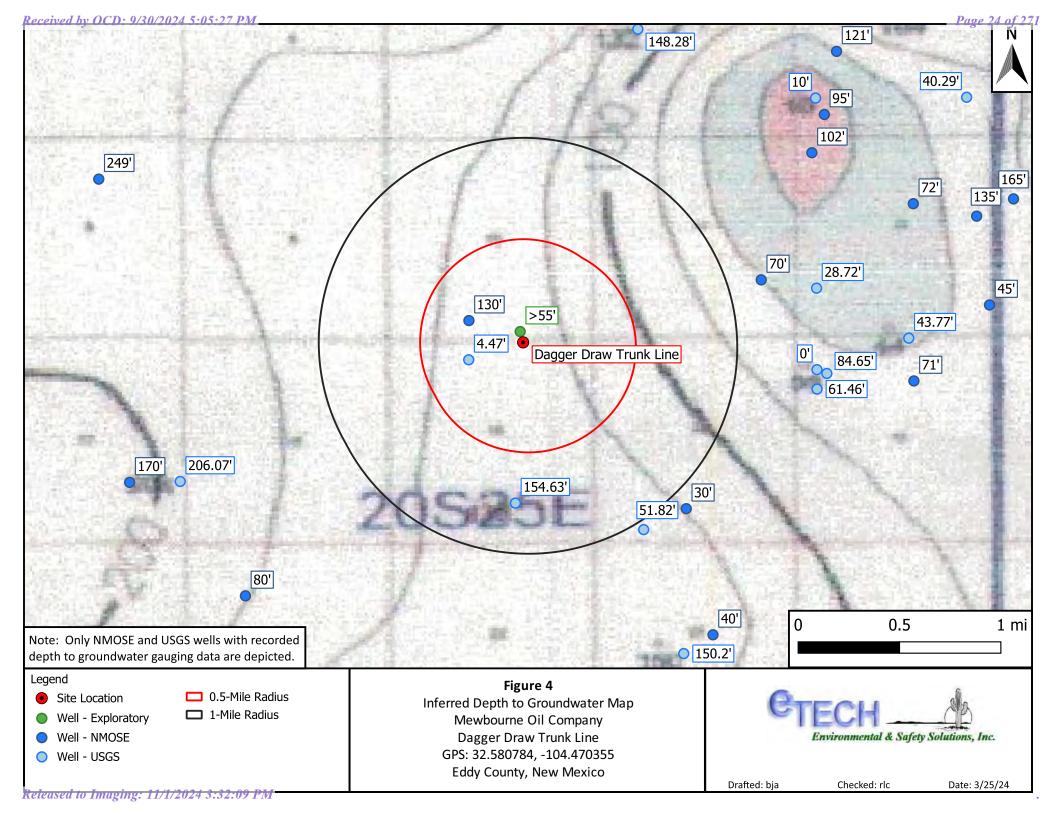
# Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Dagger Draw Trunk Line NMOCD Ref. #: nAPP2409454303

NMOCD Ref. #: nAPP2409454303  NMOCD Closure Criteria 10 50 N/A N/A N/A N/A 100 600											500
				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	Reclamation	Standard	I	10	50	N/A	N/A N/A N/A N/A 100				600
		_		SW 840	5 8021B			GRO +			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)	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)
FL 57 @ 6'	4/11/2024	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 58 @ 6'	4/11/2024	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 59 @ 2'	4/11/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 60 @ 3'	4/11/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 61 @ 2'	4/11/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 62 @ 2'	4/11/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 63 @ 6'	4/11/2024	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 64 @ 8'	4/11/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 65 @ 6'	4/24/2024	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 66 @ 6'	4/24/2024	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 67 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 68 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
FL 69 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL 70 @ 8'	4/24/2024	8	In-Situ	0.0700	8.27	47.3	11.3	58.6	<10.0	58.6	1,070
FL 71 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL 72 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,200
FL 73 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,800
FL 74 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL 75 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,840
FL 76 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 77 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,240
FL 78 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
FL 79 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	21,400
FL 80 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	23,000
FL 81 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
FL 82 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	154	154	25.8	180	18,400
FL 83 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,000
FL 84 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	33.5	33.5	<10.0	33.5	9,000
FL 85 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,000
FL 86 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16,400
FL 87 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,800
FL 88 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	25,200
FL 89 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,000
FL 90 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
FL 91 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,100
FL 92 @ 8'	4/24/2024	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,480
NW 1	4/8/2024	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 2	4/8/2024	0-7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 3	4/8/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 4	4/8/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 5	4/8/2024	0-5	In-Situ	< 0.050	< 0.300	<10.0	10.9	10.9	<10.0	10.9	224

		Tab	le 1				
Concentr	ations of	BTEX,	<b>TPH &amp; C</b>	Chloride in	Soil		
	Mewbo	ourne (	<b>Dil Compa</b>	ny			
	Dagger Draw Trunk Line						
N	NMOCD Ref. #: nAPP2409454303						

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 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> (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)
NW 6	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	64.0
NEW 1	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	208
NEW 2	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NEW 3	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 1	4/8/2024	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 2	4/8/2024	0-6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	320
EW 3	4/8/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	66.9	66.9	<10.0	66.9	176
SW 1	4/8/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
SW 2	4/8/2024	0-6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 3	4/8/2024	0-5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	160
SW 4	4/8/2024	0-11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
SWW 1	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	336
SWW 2	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	400
SWW 3	4/16/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 1	4/8/2024	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
WW 2	4/8/2024	0-6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	4/8/2024	0-7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

# Appendix A Depth to Groundwater Information





# Soil Boring/Temporary Monitor Well BH-1

**Company:** Mewbourne Oil Company **Site:** Dagger Draw Trunk Line

NMOCD Reference #: nAPP2409454303

Location: Eddy Co., NM

PLSS: U/L "O", Sec. 10, T20S, R25E

Well/Borehole ID: BH-1

Coordinates (NAD 83): 32.58156,-104.47062

Drilling Date: 5/6/2024 Depth of Boring (ft): 55 Depth to Groundwater (ft): >55

Plugging Date: 5/9/2024

Drilling Company: H&R Enterprises, LLC

Driller: Jim Hawley

Drilling Method: Air Rotary Logged By: Jim Hawley Drafted By: Ben J. Arguijo Draft Date: 5/10/2024

Completion: N/A Casing: 2" PVC Screen: 0.020" Slotted

Comments: N/A

	ionio.						
Depth (ft)	Groundwater	Lithology	Material Description	Petroleum Odor	Petroleum Stain	PID Reading	Well Construction
-  -  -							
- 0 - - -			Topsoil 100%	N	N	-	
5  			Soft Caliche 100%	N	N	-	
- 10 				N	N	_	
- 15 -		0000	Sand 90% - Clay 10%	N	N		
- - 20 -			Sand 50% - Red Clay 50%	l N	IN IN	-	
- - 25				N	N	-	Open Hole, No Annular Fill
- - - - 30				N	N	-	Hole, No A
- - - - - 35				N	N	-	
-  -  -				N	N	-	
40  			Grey Clay 60% - Sand 40%	N	N	-	
- 45 - -			Red Clay 50% - Sand 50%	N	N	-	
- 50 -				N	N	_	
- - <del>- 55</del> -			Notes:	IN	IN	-	
- - - 60 - - -			<ul> <li>Lines between material types represent approximate boundaries. Actual transitions may be gradual.</li> <li>The exploratory soil boring was left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment.</li> </ul>				

**Disclaimer** This bore log is intended for environmental not geotechnical purposes.



# 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,

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

(quarters are smallest to

(NAD83 UTM in meters) largest)

(In feet)

**POD** Sub-QQQ Water **POD Number** Code basin County 6416 4 Sec Tws Rng DistanceDepthWellDepthWaterColumn X RA 05973 4 3 10 20S 25E 549280 3605111 200 501 130

Average Depth to Water:

130 feet

Minimum Depth:

130 feet

Maximum Depth:

130 feet

#### Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 549736.45 Northing (Y): 3604903.78 **Radius: 804.67** 

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

3/22/24 12:23 PM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

X

RA 05973

20S 25E 10

549280 3605111

**Driller License:** 1532 **Driller Company:** 

TERPENING, HENRY

**Drill Start Date:** 02/21/1977

**Drill Finish Date:** 

03/25/1977

HENRY TERPENING

**Plug Date:** 

Shallow

Log File Date:

05/10/1977

**PCW Rcv Date:** 

Source:

**Pump Type: Casing Size:** 

**Driller Name:** 

Pipe Discharge Size:

200 feet Depth Water:

130 feet

**Meter Number:** 

14130

Depth Well:

Meter Make:

**MASTER** 

**Estimated Yield:** 

Meter Serial Number: GRR-26 **Number of Dials:** 

**Meter Multiplier: Meter Type:** 

100.0000 Diversion

Unit of Measure:

Gallons

**Return Flow Percent:** 

**Reading Frequency:** 

**Usage Multiplier:** 

**Meter Readings (in Acre-Feet)** 

**Read Date** Mtr Reading Flag **Rdr Comment** Year 0 Α

Mtr Amount Online 0

07/15/2010 07/15/2010

2010 2010 3111 A sj sj

0.955

\*\*YTD Meter Amounts: Year

Amount

2010

0.955

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

3/22/24 12:24 PM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

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

USGS Water Resources	Data Category:	Geographic Area:			
osas water resources	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 =

323446104282801

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 323446104282801 20S.25E.15.12113

Available data for this site Groundwater: Field measurements ➤ GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'46", Longitude 104°28'28" NAD27

Land-surface elevation 3,427 feet above NAVD88

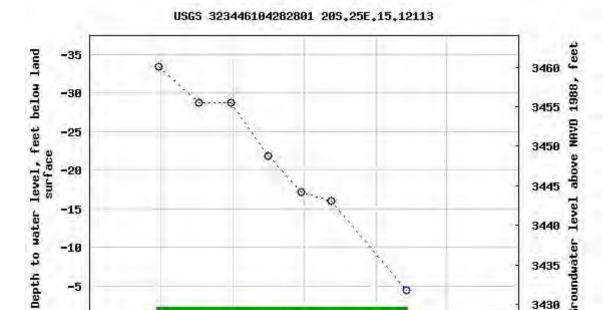
The depth of the well is 383 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

# **Output formats**

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



Jul

1998

- Period of approved data

Jan

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

Jan

1909

Jul

1909

Jan

1910

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Jul.

1907

Jan

1907

Accessibility

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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: 2024-03-22 14:22:27 EDT

0.62 0.55 nadww02





USGS Home Contact USGS Search USGS

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

USGS Water Resources	Data Category:	Geographic Area:			
osas water resources	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 =

323409104281401

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 323409104281401 20S.25E.15.34222

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'09", Longitude 104°28'14" NAD27

Land-surface elevation 3,436 feet above NAVD88

The depth of the well is 600 feet below land surface.

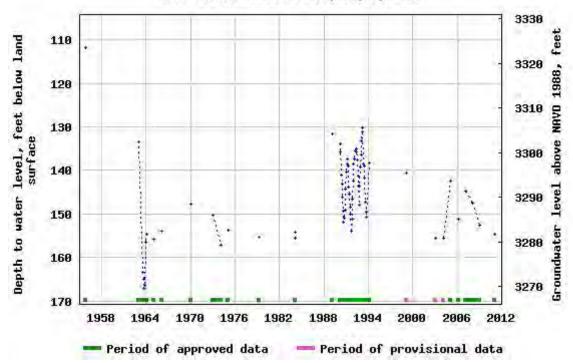
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

# **Output formats**

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

#### USGS 323409104281401 205,25E,15,34222



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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Data Tips
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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: 2024-03-22 14:22:27 EDT

0.65 0.55 nadww02



# Appendix B Field Data





# Environmental & Safety Solutions, Inc.

# **Sample Log**

Date:			

Project: Da

Dagger Draw Trunk Line

Project Number:

20174

Latitude:

32.580475

Longitude:

-104.470077

Sample ID	PID/Odor		Chloride Conc.	Pid	GPS
NW test	Light	3/68	EWZ	-	660
Fl test	Strong	228	Floor test	-	2840
Fl tost	-	2480	Flour test	-	2840
Ew-1	-	2284	Ew test	-	716
NW-1	-	412 4	Fl-9 @ 24	Strong	6.624
FL-1622	-	1056	FC-10 @ 25	Strong	6.624
Fl-2 @ 22	-	980	Floor test	-	11,30
Fl-3 @ 2 2	-	1312	New test	-	604
Sw-1	Strong	368	Ew test	-	372
SWI	Light	368 6 <b>4</b>	E-St Floor test	_	412
NW test	-	1730	West Floor test	-	368
sw test	Strong	2480	NW 3	-	292
5w 1	-	4312	NW4	-	172
NW tost	Street	1992	FL-11 025		
Sw test	-	990	F1-12 622		
FL-5023	Story Gas		FL-136123	-	
F1-4 @25	-	2490			
Sw test	-	908			
Sw test	~	604			
5w-1	-	412 \$			
Sw tesf	Strong/Bas	2840			
Nwest wall test		292			
Nw test	Dirt-	7/6			
FL-6@ 25	Strong/Bas	1,860			
FL-7 @ 22	Lightlas	1(96 2840			-
FL-8@2'5	Strong/Gas	2840			
Sw test		840			
5w-2	-	1,860			0
NW -2	-	260 \$			
NW 3	16.8	552			
NW 3 Sw3test	Light? Gas	368 A			1
εω 2	-	368#			15
rew!	-	4124			, a
Nw 3	_	2840			
NW test	-	604		-	
West wall floor	-	9084			

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 Arear



# Sample Log


Project:			
Project Number:	Latitude:	Longitude:	

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 11 6 5 6 . 8	None	1,616	
FL 24 85 3.8	NONE	552	
FI 30 C 6 7.8	lisht	12480	_
FL 310 6 7.2	(:shf	1956	
FL 42 6 6 3.4	None	452	
FL 48 C 6 7.8	Light 1	2480	
FL51C6 5.0	Lisht	- 896 -	- 2
f150 e 7 5.0	worde	896	
FL 48 6 6'2 7.8	light	2480	
FL 510 64 5.6	worke	1,116	
fl 11 est 6.0	NONE	1,284	
FL30064 6.0	-Light	1, 284	78-
FL 3 PC 6 2 4.2	None	652	
FL 4807 7.8	NONE	2,480	
FL 50072 66	NONE	1,572	
FL 5/27 4.4	Nono	712	
FL 11 C 6 60	Wine	7920	
FL 30 6 7 - 7.8		61100	
FL 3167 47	IV DAYR	657	
11 31 6 1 5	prome	896	
fl 11 06/2	none	2,2%	
FL 30@7/2	Ame	1,192 2,474	
FL 3107/2 -	none	208	
FL 48071/2	none	176	
FL 300 8'	none	3/2	
FL 3100' -	none	208	
61 2008,	none	352	
FL 1107'	none	176	
	Strong	2,984	
FL 52 @2'	light	4,486	1
6101100	none	4,128	
EL 55 @2'	Strong	3,814	1
FL 55 @ 2' FL 52 @ 3'	light	2,304	
FL 5303'	Strong	3,520	
FL5403'	strong	4,092	

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** 

61-5204 -892 FL-53@4'-2474 FL-5404'-1,604 F1-55041-964 4.8 5,6 F2-6708 - 552 FL-6808 - 1,136 FL-4908'-604 FL-7008'- 2,480 FL-7108-980 -7208-1/136 FL - 73 @8 - 1,508 FL-7408'-1,136 FL-75@8'-2,480 FL-76@8'-2,480 FL-7708'-2,140 F2-78@8'-1,732 5 L-19@8'-1,860 FL-80@8'-1/308 FL-8108-1,312 FL-8208'-1,732

Received by OCD: 9/30/2024 5:05:27 PM

FL-87 @8' - 3,520 FL-86 | @8' - 2,984 FL-85 | @8' - 4,128 FL-87 | @8' - -3,168 FL-87 | @8' - -4,448 FL-87 | @8' - 3,520 FL-87 | @8' - 3,768 FL-90 | @8' - 2,984 FL-91 | @8' - 4,128

FL-9208'- 1,824

# Appendix C Photographic Log

**Photo Number:** 

1

**Photo Direction:** 

Overhead/Bird's Eye

**Coordinates:** 

32.580980,-104.470294

Date Taken:

4/24/2024

**Photo Description:** 

Aerial view of a portion of the excavated area.



**Photo Number:** 

2

**Photo Direction:** 

Overhead/Bird's Eye

**Coordinates:** 

32.580793,-104.470289

Date Taken:

4/24/2024

**Photo Description:** 

Aerial view of a portion of the excavated area.



**Photo Number:** 

3

**Photo Direction:** 

Southwest

**Coordinates:** 

32.580558,-104.470429

**Date Taken:** 4/24/2024

**Photo Description:** 

Aerial view of karst features near the excavated area.



**Photo Number:** 

4

**Photo Direction:** 

North-Northeast

**Coordinates:** 

32.580366,-104.470387

Date Taken:

4/24/2024
Photo Description:

Aerial view of karst features near the excavated area.



**Photo Number:** 

5

**Photo Direction:** 

North

**Coordinates:** 

32.580547,-104.469387

Date Taken:

4/24/2024

**Photo Description:** 

Aerial view of karst features near the excavated area.



**Photo Number:** 

6

**Photo Direction:** 

Overhead/Bird's Eye

Coordinates:

32.580331,-104.470666

Date Taken:

4/24/2024

**Photo Description:** 

Aerial view of karst features near the excavated area.



**Photo Number:** 

7

Photo Direction:

Northeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

8

**Photo Direction:** 

South-Southwest

**Photo Description:** 

View of the excavated area.



Photo Number:

9

**Photo Direction:** 

Southeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

10

**Photo Direction:** 

South-Southeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

11

**Photo Direction:** 

South

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

12

**Photo Direction:** 

Southeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

13

**Photo Direction:** 

North

**Photo Description:** 

View of karst features near the excavated area.



**Photo Number:** 

14

**Photo Direction:** 

West-Northwest

**Photo Description:** 

View of karst features near the excavated area.



# Appendix D Laboratory Analytical Reports



April 11, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/08/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 1 @ 3' (H241811-01)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 2 @ 4.5' (H241811-02)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/09/2024	ND	1.99	99.3	2.00	0.557	
<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
<0.300	0.300	04/09/2024	ND					
105	% 71.5-13	4						
mg/	'kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	04/10/2024	ND	432	108	400	3.64	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/09/2024	ND	231	116	200	2.26	
<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
<10.0	10.0	04/09/2024	ND					
80.0	% 48.2-13	4						
82.9	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300  105 9  Result  48.0  mg/  Result <10.0 <10.0 <80.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 T1.5-13 mg/kg Result Reporting Limit 48.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 <10.0 10.0 <48.2-13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 3 @ 3' (H241811-03)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (Pa	D 104	% 71.5-13	34						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	18						
<u> </u>									

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 4 @ 3' (H241811-04)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	12.2	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	69.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.0	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 5 @ 3' (H241811-05)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	29.7	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

#### Sample ID: FL 6 @ 4' (H241811-06)

BTEX 8021B

DIEX GOZID	ilig/ kg		Andryzed by: 511						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

#### Sample ID: FL 7 @ 3' (H241811-07)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 8 @ 5' (H241811-08)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	72.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.3	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

#### Sample ID: FL 9 @ 3' (H241811-09)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 10 @ 3' (H241811-10)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024

Reported: 04/11/2024

Project Name: DAGGER DRAW TRUNK LINE 20174

Project Location:

Project Number: MEWBOURNE - 32.580475,-104.470077 Sampling Date: 04/08/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

#### Sample ID: FL 12 @ 3' (H241811-11)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.5	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 13 @ 4' (H241811-12)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	72.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 14 @ 3' (H241811-13)

BTEX 8021B

DILX GOZID	mg/	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 20174

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 15 @ 4.5' (H241811-14)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 16 @ 3' (H241811-15)

RTFY 8021R

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 17 @ 3' (H241811-16)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	84.4 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.75	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 18 @ 3' (H241811-17)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 19 @ 3' (H241811-18)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 20 @ 3' (H241811-19)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 21 @ 4' (H241811-20)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 22 @ 3' (H241811-21)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.8	% 49.1-14	8						

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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 23 @ 3' (H241811-22)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	10.1	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	80.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.3	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 25 @ 3' (H241811-23)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	69.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 26 @ 3' (H241811-24)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 27 @ 2.5' (H241811-25)

RTFY 8021R

B1EX 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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 % 71.5-13		4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	ND	416	104	400	3.77	
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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	78.5 % 48.2-13-		4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 20174

Project Location: MEWBOURNE - 32.580475,-104.470077

#### Sample ID: FL 28 @ 2.5' (H241811-26)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/10/2024	ND	416	104	400	3.77	
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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	66.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.7	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 29 @ 2.5' (H241811-27)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.9	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 32 @ 3' (H241811-28)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	11.4	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 49.1-14	'8						

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 33 @ 2.5' (H241811-29)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.2	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 34 @ 3' (H241811-30)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 35 @ 5' (H241811-31)

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 36 @ 2.5' (H241811-32)

BTEX 8021B

	91	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 37 @ 5' (H241811-33)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 38 @ 3' (H241811-34)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 39 @ 4' (H241811-35)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	75.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024

Sampling Date:

04/08/2024

Reported:

04/11/2024

Sampling Type:

Soil

Project Name:

DAGGER DRAW TRUNK LINE

Sampling Condition:

Cool & Intact

Project Number: Project Location: 20174

Sample Received By: MEWBOURNE - 32.580475,-104.470077

Tamara Oldaker

Sample ID: FL 40 @ 3' (H241811-36)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	19.5	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 41 @ 2' (H241811-37)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	61.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	59.4	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 43 @ 2.5' (H241811-38)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	< 0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.0	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 45 @ 4' (H241811-39)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.5	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 46 @ 2.5' (H241811-40)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	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:

Sampling Date: 04/08/2024

Reported: 04/11/2024

Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Project Number: 20174

Received:

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

Project Location: MEWBOURNE - 32.580475,-104.470077

04/08/2024

### Sample ID: FL 47 @ 3' (H241811-41)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.7	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: FL 49 @ 2.5' (H241811-42)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	< 0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	< 0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: NW 1 (H241811-43)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

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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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: NW 2 (H241811-44)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: NW 3 (H241811-45)

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	57.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	52.4	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: NW 4 (H241811-46)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.3	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: NW 5 (H241811-47)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	10.9	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: SW 1 (H241811-48)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.8	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: SW 2 (H241811-49)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.2	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: SW 3 (H241811-50)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: SW 4 (H241811-51)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.1	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: EW 1 (H241811-52)

BTEX 8021B

DIEX OUZID	ıııg,	K9	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE - 32.580475,-104.470077

mg/kg

### Sample ID: EW 2 (H241811-53)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	69.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.5	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: EW 3 (H241811-54)

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	04/09/2024	ND	1.99	99.4	2.00	1.39	
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	66.9	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: WW 1 (H241811-55)

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	04/09/2024	ND	1.99	99.4	2.00	1.39	
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48	
Total Xylenes*	al Xylenes* <0.150 0.150		04/09/2024	ND	7.29	122	6.00	9.03	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	68.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	61.0	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: WW 2 (H241811-56)

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	04/09/2024	ND	1.99	99.4	2.00	1.39	
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03	
Total BTEX	<0.300	0.300	04/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	58.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	50.5	% 49.1-14	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: 04/08/2024 Sampling Date: 04/08/2024

Reported: 04/11/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 20174

Project Location: MEWBOURNE - 32.580475,-104.470077

### Sample ID: WW 3 (H241811-57)

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	04/09/2024	ND	1.99	99.4	2.00	1.39	
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03	
Total BTEX	<0.300	0.300	04/09/2024 ND						
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					
Surrogate: 1-Chlorooctane	66.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	58.4	% 49.1-14	8						

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### **Notes and Definitions**

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

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

Company Name	: Etech Environmental & Safety Solu		, Inc	2.					BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P.C	). #:							
Address: 261	7 West Marland						Col	mpa	ny	Mewbo	ourne	1			
City: Hobbs	State: NM	Zip	: 88	240			Attı	n:		Connor Wa	alker	1		1	
Phone #: (57	5) 264-9884 Fax #:						Add	dres	s:						
Project #: 201	74 Project Owne	r:	Me	wbou	me		City	y:				1			
Project Name:	Dagger Draw Trunk Line						Sta	te:	NM	Zip:			₩ S	28	
Project Locatio	n: 32.580475, -104.470077							one				불	801	800	
Sampler Name:							Fax	(#:				Chloride	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY		Т			MATRI	X	_		SERV	SAMPL	ING	1	1	B	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL OTHER:	DATE	TIME				
	FL 1 @ 3'	C	1		X				х	4/8/24		Х	X	X	
	FL 2 @ 4.5'	C	1		X				X	4/8/24		Х	X	X	
3	FL 3 @ 3'	C	1		X				X	4/8/24		Х	Х	X	
	FL 4 @ 3'	C	1		X				Х	4/8/24		X	Х	X	
5	FL 5 @ 3'	C	1		X				X	4/8/24		Х	Х	X	
6	FL 6 @ 4'	C	1		X				X	4/8/24		X	Х	X	
7	FL 7 @ 3'	C	1		X				X	4/8/24		Х	Х	X	
	FL 8 @ 5'	С	1		X				X	4/8/24		X	X	X	
9	FL 9 @ 3'	С	1		X				X	4/8/24		Х	X	X	
	FL 10 @ 3'	C	1		X				X	4/8/24		X	X	X	
analyses. All claims includ service. In no event chall C	11-8-20 Time: 445	g without ardinal	d walv it limit regar	nd unless r plion, busin	sade in will bee interrup ether such	ing and plons, i	receives of	use, or	Cordinal toos of p	within 30 days all rolls incurred by	Phone Re Fiax Resu	tio application, ise.  Substitution  Substit	□ Ye	es C	□ No
	- Bus - Other: -4.8	£14	10	Cod	nple Co I Inta Yes No	Yes		0		(ED BY:	Please	arrair r	esun	s and	Topy of CoC to pringetecheny.com.

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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

Company Name	e: Etech Environmental & Safety Solu	tions	, Inc	<b>3.</b>						BI	LL TO					ANALYSIS REQUEST
Project Manage	er: Lance Crenshaw						P	2.0.	#:							
Address: 261	17 West Marland						C	om	pany	,	Mewbo	ume	1			
City: Hobbs	State: NM	Zip	: 88	240			A	ttn:			Connor Wa	alker	1			
Phone #: (57	5) 264-9884 Fax #:						A	ddr	ess:							
Project #: 201	174 Project Owne	r:	Me	ewb	ourne		c	ity:					1		_	
Project Name:	Dagger Draw Trunk Line						s	tate	: 1	IM	Zip:			€ N	118	
Project Locatio	n: 32.580475, -104.470077							hon			•		Chloride	9	80	
Sampler Name:	Aaron Rios							ax #					충	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY		Г	Г		MAT	RIX			RESE	RV.	SAMPL	ING	1	1	BT	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL V	OTHER:	DATE	TIME				
	FL 12 @ 3'	С	1		Х			Т	X		4/8/24		Х	Х	X	
	FL 13 @ 4'	С	1		X				X		4/8/24		Х	Х	Х	
	FL 14 @ 3'	С	1		X				X		4/8/24		X	Х	Х	
	FL 15 @ 4.5'	С	1		X				X		4/8/24		Х	X	X	
15	FL 16 @ 3'	С	1		X				X		4/8/24		Х	Х	X	
14	FL 17 @ 3'	С	1		X		1	1	X		4/8/24		Х	X	X	
17	FL 18 @ 3'	С	1		X			1	X		4/8/24		Х	X	X	
	FL 19 @ 3'	С	1	Ш	X			1	X	Ш	4/8/24		Х	X	X	
	FL 20 @ 3'	С	1		X			1	X		4/8/24		Х	X	X	
	FL 21 @ 4'	С	1		X			L	X		4/8/24		X	X	X	
analyses. All claims includ service. In no event shall of affiliates or successors shall Relinquished B	7-8-24 Time: 445* Date:	Re	d web at the regar ceiv	ved with the state of the state	well made in well medicans to the of whether s  By:  Walter S  By:  By:	wruptor such cla	and re- ne, loses im is ba	of use ased u	or los	on of proy of the	able 30 days all office incurred by a above stated re	r completion of ticlient, its substitutions or otherwise Phone ReFax Resu	noe, se. esult: lt: S:	□ Ye	es C	□ No Add'l Phone #: □ No Add'l Fax #:  d copy of CoC to pm@etechenv.com.
	: (Circle One) #14 - Bus - Other: — 4.8	C		(	Cool Yes	ntact	/		СН	ECK (Initi	ED BY:					

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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM, 8824

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	e: Etech Environmental & Safety Solut	tions	, Inc	C					2	BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						1	2.0.	#:							
Address: 261	7 West Marland						0	Com	par	ıy	Mewbo	oume	1			
City: Hobbs	State: NM	Zip	: 88	240			4	Attn:			Connor W	alker	1			1   1   1   1   1   1
Phone #: (57	5) 264-9884 Fax #:						A	Addr	ess	:			1			
Project #: 201	74 Project Owne	r:	Me	ewbou	rne		0	City:					1			
Project Name:	Dagger Draw Trunk Line						5	State	):	NM	Zip:			SM)	BTEX (8021B)	
Project Locatio	n: 32.580475, -104.470077							hor			•		Chloride	TPH (8015M)	(80	
Sampler Name:	Aaron Rios						-	ax i					ਤੁੱ	I	X	
FOR LAB USE ONLY		Г			MAT	RIX	_	-	_	FRV	SAMPL	ING	1	₽	B	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME				
	FL 22 @ 3'	С	1		X			T	)		4/8/24		Х	X	X	
	FL 23 @ 3'	С	1		X				)		4/8/24		Х	X	X	
23	FL 25 @ 3'	С	1		X				)		4/8/24		X	Х	X	
	FL 26 @ 3'	С	1		X				)	(	4/8/24		Х	X	X	
as	FL 27 @ 2.5'	С	1		X				)	(	4/8/24		X	X	X	
26	FL 28 @ 2.5'	С	1		X				)		4/8/24		X	X	X	
27	FL 29 @ 2.5'	С	1		X				)		4/8/24		Х	Х	X	
	FL 32 @ 3'	С	1		X				)		4/8/24		Х	Х	X	
	FL 33 @ 2.5'	С	1		X				)		4/8/24		X	X	X	
	FL 34 @ 3'	С	1		X				)		4/8/24		X	X	X	
analyses All claims includ	the 20 Time: 445	Re	t limb , regar Cei\	ed unless ston, bush	hether:	welle, orrupti	g and re ons, loss	calred of une	by Co o, or k	redinal on of p	within 30 days all rolls incurred by	er completion of client, its subsidile easons or otherw Phone Re Fax Resu	the applications, ise.  esult:  S:	□ Ye	es 🗆	No Add'l Phone #: No Add'l Fax #:  copy of CoC to pm@etechenv.com.
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CHAIN-OF-CUSTO	DY AND	<b>ANALYSIS</b>	REQUEST

Company Name	Etech Environmental & Safety Solu		s, In	C.					B	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P.0	0. #:							
Address: 261	7 West Marland						Co	mpa	any	Mewbo	ume	1			
City: Hobbs	State: NM	Zip	: 88	240			Att	tn:		Connor W	alker	1			
Phone #: (57	5) 264-9884 Fax #:						Ad	Idres	ss:						
Project #: 201	74 Project Owne	er:	Me	ewbou	me		Cit	tv:				1			
Project Name:	Dagger Draw Trunk Line							_	NM	Zip:		1.	SM.	118	
Project Locatio	n: 32.580475, -104.470077							one				Chloride	TPH (8015M)	(8021B)	
Sampler Name:								x #:	-			ा है	I	BTEX	
FOR LAB USE ONLY		T	T		MAT	RIX		_	SERV	SAMPL	ING	1	1	BT	
<b>Lab I.D.</b> #241811	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	NOS	OIL	OTHER:	ACID/BASE:	ICE / COOL COTHER:	DATE	TIME				
31	FL 35 @ 5'	C	1		X				X	4/8/24		X	X	X	
32	FL 36 @ 2.5'	С	1		X				X	4/8/24		Х	X	X	
33	FL 37 @ 5'	C	1		X				X	4/8/24		Х	Х	X	
34	FL 38 @ 3'	C	1		X				X	4/8/24		Х	X	X	
	FL 39 @ 4'	С	1		X				X	4/8/24		X	X	X	
36	FL 40 @ 3'	C	1		X				X	4/8/24	_	X	X	X	
	FL 41 @ 2'	C	1		X		1		X	4/8/24		X	X	X	
	FL 43 @ 2.5'	C	1	1	X				X	4/8/24		X	X	X	
	FL 45 @ 4'	С	1		X		1		X	4/8/24	_	X	X	X	
	FL 46 @ 2.5'	C	1		X				X	4/8/24	11	X	X	X	
analyses All claims includ service. In no event shall C	Time: 445	deeme	ed work at limit i, rega	red unless i ration, bush	made in neces into hether si	writing as rruptions.	ines o	dead by fuse, a	Cardinal r loss of	within 30 days of croftle incurred by	Processing of the second	the applica mice, vise. esult: uit: (S:	□ Ye	es 🗆	I No Add'l Phone #: No Add'l Fax #:  copy of CoC to pm@etechenv.com.
	: (Circle One) # # # # # # # # # # # # # # # # # # #	14	0	Co	ol II	Condit				KED BY:	Please	emali I	esuit	sano	сору от СоС то ритеретестепу.сот.

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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	e: Etech Environmental & Safety Solut	ions	, Inc	3.				333		BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P	.0.	l:							
Address: 261	7 West Marland						c	omp	any		Mewbo	ume	1		1	
City: Hobbs	State: NM	Zip	88	240			A	ttn:			Connor Wa	alker	1			
Phone #: (57:	5) 264-9884 Fax #:						A	ddre	ss:				1			
Project #: 201	74 Project Owner	:	Me	wbou	me		c	ity:					1		_	
Project Name:	Dagger Draw Trunk Line						s	tate:	N	M	Zip:			SM)	218	
Project Location	n: 32.580475, -104.470077						P	hone	e #:				Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name:	Aaron Rios						F	ax #					등	Ĭ	E	
FOR LAB USE ONLY					MATI	RIX	T	PR	ESE	RV.	SAMPL	ING	1	=	B	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER.	ACID/BASE:	ICE / COOI.	OTHER:	DATE	TIME				
- 1	FL 47 @ 3'	С	1		X			T	X		4/8/24		Х	X	X	
42	FL 49 @ 2.5'	С	1		X				X		4/8/24		Х	Х	X	
	NW 1	С	1		X				X		4/8/24		Х	Х	X	
	NW 2	С	1		X				X		4/8/24		Х	Х	X	
	NW 3	С	1		X	1	1	1	X	Ц	4/8/24		Х	Х	X	
-	NW 4	С	1	1	X		+	1	X		4/8/24		Х	X	X	
	NW 5	С	1	$\vdash$	X	1	+	$\perp$	X		4/8/24		X	X	X	
	SW 1	C	1	-	X	+	+	+	X	Н	4/8/24		Х	X	X	
	SW 2	С	1		X	+	+	+	X	Н	4/8/24		Х	X	X	
	SW 3 nd Darmages. Cardinal's liability and client's exclusive remedy for a	C	1	o whether	X	contra	ct or tr	ort ehol	X	of botton	4/8/24	of builto eligat for	X	X	X	
analyses All claims include service. In no event shall C	ing those for negligence and any other came whatever shall be a certified be liable for incidental or consequential damages, including ing out of or related to the performance of services hereunder by C Y:  Date:  Time:  1445	Re	t bulb regar Cei\	ed unives a iden, busin	ether su	nding a ruptions	end rec s, love	colved b of use,	y Cam or loss	deal vi	Win 30 days all offic incurred by	Phone Re Fax Result	no application, se. sult: lt: S:	☐ Ye	s (	□ No Add'l Phone #: □ No Add'l Fax #:  d copy of CoC to pm@etechenv.com.
	: (Circle One) #/ - Bus - Other: -4.8	146	)	Co	Yes No	tact	/	0		ECK (Initi	ED BY:	. 10460 0	Tion 1	Jounte	GIIG	a sopy of over to pringe to the first to the

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Received by OCD: 9/30/2024 5:05:27 PM

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# Received by OCD: 9/30/2024 5:05:27 PM

ARDINAL LABORATORIES

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

Company Name	e: Etech Environmental & Safety Sol		s, Inc	C.			T		B	LL TO					ANALYSIS REQUEST
Project Manage	er: Lance Crenshaw						P.	0. #	:						
Address: 261	17 West Marland						C	omp	any	Mewbo	oume	1			
City: Hobbs	State: NM	Zip	: 88	240			At	ttn:		Connor W	alker				
Phone #: (57	5) 264-9884 Fax #:						A	ddre	SS:			1			
Project #: 201	174 Project Own	er:	Me	ewbour	ne		C	ity:				1			
Project Name:	Dagger Draw Trunk Line						SI	tate:	NM	Zip:			TPH (8015M)	BTEX (8021B)	
Project Locatio	n: 32.580475, -104.470077						PI	hone	#:			Chloride	801	80	
Sampler Name:	Aaron Rios						_	ax #:				ਤਿੰ	I	X	
FOR LAB USE ONLY		T	Т		MAT	RIX		PR	ESERV	SAMPL	ING	1	1	Ha	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL. COTHER:	DATE	TIME				
51	SW 4	C	1		X				X	4/8/24	1	X	Х	Х	
	EW 1	С	1		X				X	4/8/24		Х	X	X	
	EW 2	С	1		X				X	4/8/24		Х	Х	X	
	EW 3	C	1		X		1		X	4/8/24		X	Х	X	
	WW 1	C	1		X	1	1	1	X	4/8/24		X	Х	Х	
		C	1	1	X	4	1	1	X	4/8/24	_	X	Х	Х	
57	WW 3	C	1	$\vdash$	X	+	+	H	X	4/8/24	-	X	X	X	
		1				1	1	I							
analyses. All claims includ service. In no event shall C	Time: 445	e deeme	ed week at limb ii, rega ecei	ed unless H stion, busine	ether s	ruption	end rec	alved by	y Cardinal or loss of p	within 30 days of rolls incurred by	er completion of client, its subsidite sasons or otherw Phone Re Fax Resu REMARK	to applica alos, ise. esult: alt: S:	□ Ye	s 🗆	No Add'l Phone #: No Add'l Fax #:
	: (Circle One) + - Bus - Other: 4,86	£/4	10	Cod	rple ( Ves	ntact	es			KED BY:	Please	email r	esults	and c	copy of CoC to pm@etechenv.com.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006 Revision 1.0



April 15, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/09/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 04/09/2024

Sampling Date:

04/09/2024

Reported:

04/15/2024

mg/kg

Sampling Type:

Soil

Project Name: Project Location:

BTEX 8021B

DAGGER DRAW TRUNK LINE

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

Project Number:

20174

MEWBOURNE 32.580475,-104.470077

Sample ID: FL 24 @ 5' (H241838-01)

DILX 6021D	ilig	/ Ng	Allalyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2024	ND	2.12	106	2.00	1.37	
Toluene*	<0.050	0.050	04/10/2024	ND	2.22	111	2.00	2.30	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.27	114	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	6.75	113	6.00	2.86	
Total BTEX	<0.300	0.300	04/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/10/2024	ND	448	112	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	04/10/2024	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	202	101	200	6.25	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Received: 04/09/2024 Sampling Date: 04/09/2024

Reported: 04/15/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 42 @ 6' (H241838-02)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2024	ND	2.12	106	2.00	1.37	
Toluene*	<0.050	0.050	04/10/2024	ND	2.22	111	2.00	2.30	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.27	114	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	6.75	113	6.00	2.86	
Total BTEX	<0.300	0.300	04/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2024	ND	448	112	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	04/10/2024	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	202	101	200	6.25	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **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.

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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Celey D. Keene

# ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 Eas	st Marland	l, Hobbs,	NM	88240
(575)	393-2326	FAX (575	39	3-2476

Company Name: Etech Environment	al & Safety Solut	tions,	Inc.							BI	LL TO					ANALYSIS REQUEST
Project Manager: Lance Crenshaw							F	2.0.	#:							
Address: 2617 West Marland							d	Comp	pan	у	Mewbo	ourne	1			
City: Hobbs	State: NM	Zip:	882	40			A	Attn:			Connor Wa	alker	1			
Phone #: (575) 264-9884	Fax #:						A	Addn	<b>0</b> SS:	:			1			
Project #: 20174	Project Owner	r:	Me	wbou	me		d	City:					1			
Project Name: Dagger Draw Trunk Lin	е								: 1	MM	Zip:			₩ SW	21B	
Project Location: 32.580475, -104.47	0077						F	hon	e #:				Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name: Aaron Rios							F	ax i	:				E S	Ī	X	
FOR LAB USE ONLY		П			MAT	RIX		Pi	RES	ERV.	SAMPL	ING	1	1 =	E	
†∂ՎI838 Lab I.D. Sample I.	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME				
FL 24 @ 5'		С	1		X			T	X		4/9/24		Х	X	X	
		С	1		X				X		4/9/24		Х	X	X	
LEASE NOTE: Liability and Damages. Cardinal's liability and clie nalyses. All claims including those for negligence and any other or prince. In no event shall Cardinal be tibble for incidental or consec- fitiates or successformaticians out of or negligence to the	cause whatenever shall be e quental damages, including	deemed willhout	wahred Smhall	unios n on, busin	nado in cos inte	writing : muption	and re is, loss	s of use	by Car , or les	edinal w	olik incurred by	client, its subsidiar	te applica ries,	the		
Delivered By: (Circle One) Sampler UPS - Bus - Other:	Date: Time: Time:  Time:	Rec	ceive	Co	nple	Cond	-	n	CH	HECK (Initi		Phone Re Fax Resu REMARK:	lt: S:	Ye	es 🗆 N	



April 15, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/10/24 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/10/2024 Sampling Date: 04/10/2024 Soil

Reported: 04/15/2024 Sampling Type: Project Name: DAGGER DRAW TRUNK LINE Sampling Condition:

Cool & Intact Project Number: 20174 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 11 @ 7' (H241866-01)

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	04/11/2024	ND	2.13	107	2.00	0.427	
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382	
Total BTEX	<0.300	0.300	04/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2024	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	04/11/2024	ND	203	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	215	107	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 04/10/2024 Sampling Date: 04/10/2024

Reported: 04/15/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 30 @ 8' (H241866-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.13	107	2.00	0.427	
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382	
Total BTEX	<0.300	0.300	04/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



04/10/2024

Shalyn Rodriguez

### Analytical Results For:

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

Received: 04/10/2024 Sampling Date:

Reported: 04/15/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact

Project Number: 20174 Sample Received By:

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 31 @ 8' (H241866-03)

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	04/11/2024	ND	2.13	107	2.00	0.427	
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382	
Total BTEX	<0.300	0.300	04/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

### Cardinal Laboratories

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Celey D. Keene

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: 04/10/2024 Sampling Date: 04/10/2024

Reported: 04/15/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Shalyn Rodriguez

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 48 @ 7.5' (H241866-04)

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	04/11/2024	ND	2.13	107	2.00	0.427	
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382	
Total BTEX	<0.300	0.300	04/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	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: 04/10/2024 Sampling Date: 04/10/2024

Reported: 04/15/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 50 @ 8' (H241866-05)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.13	107	2.00	0.427	
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382	
Total BTEX	<0.300	0.300	04/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/10/2024 Sampling Date: 04/10/2024

Reported: 04/15/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 51 @ 8' (H241866-06)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00	
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14	
Total BTEX	<0.300	0.300	04/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	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°C

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

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Page 9 of 9

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### RDINAL LABORATORIES

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

Company Nam	e: Etech Environmental & Safety Sole	utions	s, In	C.						BI	LL TO					ANALYSIS REQUEST
Project Manage	er: Lance Crenshaw							P.0	. #:				1			
ddress: 26	17 West Marland							Cor	npai	ny	Mewbo	ume	1		1	
City: Hobbs	State: NM	Zip	: 88	240				Attr	1:		Connor Wa	alker			1	
Phone #: (57	75) 264-9884 Fax #:							Add	ires	s:			1			
Project #: 20	174 Project Own	er:	Me	ewbo	urne	•		City	<b>/</b> :				1			1   1   1   1   1
Project Name:	Dagger Draw Trunk Line							Stat	te:	NM	Zip:			N N	18	
roject Locatio	on: 32.580475, -104.470077							Pho	one i	F:			Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name								Fax	_				į	I	X	
FOR LAB USE ONLY		T	T		MA	TRI	X	-	_	SERV.	SAMPL	ING	1	1 6	BT	
<b>Lab I.D.</b> +2418[el	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME				
1	FL 11 @ 7'	С	1		X					X	4/10/24		Х	Х	X	
2	FL 30 @ 8'	С	1		X					X	4/10/24		Х	X	X	
3	FL 31 @ 8'	С	1		X					X	4/10/24		Х	X	X	
U	FIL 48 @ 7.5	С	1		X				1	X	4/10/24		Х	Х	X	
5	FIL 50 @ 8'	С	1		X	(				X	4/10/24		X	X	X	
Q	FL 51 @ 8'	С	1		X	(	H		- 1	X	4/10/24		Х	X	×	
	and Demages. Cardinal's liability and client's exclusive remedy for														_	
ervice. In no event shall	ding those for negligence and any other cause whatsoever shall it Cardinal be liable for incidental or consequential demages, including out of or related to the performance of services himmuncter by \$\frac{3}{2}\$.  Time:	Cardina Re	al, rega	rdiess o	olnoss ir f whethe	nterrup er such	claim è	s base	d upon	any of the	offis incurred by		rios, ioo. esult: it:	O Ye		□ No Add'l Phone #: □ No Add'l Fax #:
Refinquished E	Date:	Re		ved E	By:							Please e	email ı	result	s and	d copy of CoC to pm@etechenv.com.
	r: (Circle One) - 5-32	EIL	1	S	ool Ye	Inta	ndition Yes	ori		HECK (Initi	ED BY: als)					



April 16, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/11/24 14:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/11/2024 Sampling Date: 04/11/2024 Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 52 @ 6' (H241909-01)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
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	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 20174

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 53 @ 12.5' (H241909-02)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 54 @ 7' (H241909-03)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Shalyn Rodriguez 20174 Sample Received By:

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 55 @ 11' (H241909-04)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-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	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 56 @ 7' (H241909-05)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
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	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

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

Fax To:

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 57 @ 6' (H241909-06)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500CI-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	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	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: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 58 @ 6' (H241909-07)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/12/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 59 @ 2' (H241909-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	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: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 60 @ 3' (H241909-09)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	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: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Shalyn Rodriguez

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 61 @ 2' (H241909-10)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 62 @ 2' (H241909-11)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 63 @ 6' (H241909-12)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 04/11/2024 Sampling Date: 04/11/2024

Reported: 04/16/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: FL 64 @ 8' (H241909-13)

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	04/12/2024	ND	2.20	110	2.00	0.223	
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75	
Total BTEX	<0.300	0.300	04/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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### **Notes and Definitions**

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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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES

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

Company Name	e: Etech Environmental & Safety Solut	ions	, Inc	<b>D.</b>						BIL	LL TO					ANALYSIS REQUEST			
Project Manage	r: Lance Crenshaw						P.	O. #	k:										
Address: 261	7 West Marland											C	Company Mewboo		ourne				
City: Hobbs	State: NM	Zip	88	240			A	ttn:			Connor Wa	alker							
Phone #: (57	5) 264-9884 Fax #:						A	ddre	ss:				1						
Project #: 201	74 Project Owner	r:	Me	ewboi	urne		Ci	ity:							_				
Project Name:	Dagger Draw Trunk Line						Si	tate:	NI	М	Zip:		۰	TPH (8015M)	BTEX (8021B)				
Project Locatio	n: 32.580475, -104.470077						PI	hone	e #:				Chloride	801	(8)				
Sampler Name:	Aaron Rios						Fa	ax #:					등	Ĭ	X				
FOR LAB USE ONLY					MAT	RIX		PR	ESE	RV.	SAMPL	ING	1	=	E				
Hay1909 Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME							
ì	FL 52 @ 6'	С	1		X			Т	Х		4/11/24		Х	Х	Х				
2	FL 53 @ 12.5'	С	1		X				x		4/11/24		Х	Х	Х				
3	FL 54 @ 7'	С	1		X				X		4/11/24		Х	Х	Х				
4	FL 55 @ 11'	С	1		X			┖	X		4/11/24		Х	Х	Х				
5	FL 56 @ 7'	С	1		X			L	X		4/11/24		Х	Х	Х				
6	FL 57 @ 6'	С	1		X		1	┺	X		4/11/24		Х	X	Х				
Z	FL 58 @ 6'	С	1		X	_	4	┺	X		4/11/24		Х	Х	Х				
8	FL 59 @ 2'	С	1	1	X	-	-	╄	X		4/11/24		Х	X	Х				
1	FL 60 @ 3'	С	1	-	X	-	+	╄	X	_	4/11/24		Х	X	X				
PLEASE NOTE: Liability a	FFL 61 @ 2' nd Damages. Cardinal's liability and client's exclusive remedy for a	C ny ctair	1 n arisi	ng wheth	X er based	in contra	ect or to	ort, shal	X be lim	ited to	4/11/24 o the amount pa	d by the client for	X the	Х	X				
analyses. All claims includ	ing those for negligence and any other cause wheleoever shall be cardinal be liable for incidental or consequental damages, including	doomo	d walv	ed unless	s made in	willing a	and rec	ceired b	y Card	inal w	ilhin 30 days aftr	r completion of ti	ne applica	ble					
affiliates or successors aris	ing out of or related to the performance af some so horounder by C	ardina	, rega	rdless of	whether :								90.	☐ Ye	е П	No Add'l Phone #:			
Relinquished B	Times dSy	(	SY	led B	dk	i)	4	И	e	4		Fax Resu REMARKS	lt:	☐ Ye		No Add'i Fax #:			
Delivered By	Time:				ample ool l						ED BY:	Please e	mail r	esults	and o	copy of CoC to pm@etechenv.com.			
Sampler - UPS	: (Circle One) -     0 = #	40		F	Yes	Y	es la	8	Y	-	(3F5)								

FORM-006 Revision 1.0

Received by OCD: 9/30/2024 5:05:27 PM

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

Page 16 of 17

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES 101 Fast Marland, Hobbs, NM, 8824

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

Company Name	: Etech Environmental & Sa	fety Solutio	ns,	Inc				T		B	ILL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw							P.	0. #	:						
Address: 261	7 West Marland							Co	ompany Mewbourne			oume				
City: Hobbs	State	: NM Z	<b>Zip</b> : 88240					At	tn:		Connor W	alker				
Phone #: (57	5) 264-9884 Fax #	:						Ad	ddre	ss:						
Project #: 20174 Project Owner: Mewbourne							City:						_			
Project Name:	Dagger Draw Trunk Line							St	ate:	NN	Zip:		98	TPH (8015M)	21B	
Project Location: 32.580475, -104.470077						PI	none	#:			Chloride	8	BTEX (8021B)			
Sampler Name:	Aaron Rios							Fa	x #:	_			5	표	Ě	
FOR LAB USE ONLY						MAT	RIX	PRESERV. SAMPLING					1	F	m	
HJ41909 Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE	ICE/COOL	DATE	TIME				
11	FL 62 @ 2'		С	1		X				X	4/11/24		Х	X	X	
12	FL 63 @ 6'		С	1		X				X	4/11/24		X	X	Х	
	FL 64 @ 8'		С	1		X				X	4/11/24		X	Х	X	
							+		L							
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's exclusi	re remedy for any	claim	arisin	a whether	based	n contrac	t or to	rt, shall	be limit	ed to the amount p	aid by the client fo	or the			
analyses. All claims includ service in no event shall C	ing those for negligence and any other cause what and and be liable for incidental or consequental dan- ing out of or related to the perfognance of seniors	coever shall be dec sages, including wi	emed Shout	veniro Smilat	d unless tion, busin	made in ress inte	writing a rruptions	nd reci	olved by of use, o	Cardin or loss o	of within 30 days of profits incurred by	er completion of client, its subside essons or otherw	the applica ariss, ise.			
Relinquished B	V: Date: Time;	1-24 454	Rec	eiv	ed By ed By	d	•				4	Phone Re Fax Resu REMARK	esult: ult:	□ Ye		No Add'l Phone #: No Add'l Fax #:
	Time:											Please 6	email r	esult	s and	copy of CoC to pm@etechenv.com.
	- Bus - Other:	2 #14	10		Co	ol li	Condi ntact Ye				KED BY:					

FORM-006 Revision 1.0

Received by OCD: 9/30/2024 5:05:27 PM



April 22, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

### Sample ID: FL 18 @ 3.5' (H242016-01)

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	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	190	95.0	200	3.21	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	207	104	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

### Sample ID: NEW 1 (H242016-02)

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	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	190	95.0	200	3.21	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	207	104	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: NEW 2 (H242016-03)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
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	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	190	95.0	200	3.21	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	207	104	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: NEW 3 (H242016-04)

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	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	< 0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: SEW 1 (H242016-05)

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	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: SEW 2 (H242016-06)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	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: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

ma/ka

## Sample ID: SWW 3 (H242016-07)

RTFY 8021R

Result	Reporting Limit	Analyzed	Mathad Diami												
< 0.050		,	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier							
.0.050	0.050	04/18/2024	ND	2.07	103	2.00	0.321								
<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334								
<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230								
<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347								
<0.300	0.300	04/18/2024	ND												
104	% 71.5-13	4													
mg,	/kg	Analyze	d By: AC												
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier							
32.0	16.0	04/18/2024	ND	480	120	400	3.39								
mg,	/kg	Analyze	d By: MS												
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier							
<10.0	10.0	04/17/2024	ND	203	102	200	0.306								
<10.0	10.0	04/17/2024	ND	211	106	200	3.29								
<10.0	10.0	04/17/2024	ND												
99.8	% 48.2-13	4													
104	% 49.1-14	8													
	<0.050 <0.150 <0.300  104 9  Result 32.0  mg/  Result <10.0 <10.0  99.8	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  104	<0.050	<0.050	<0.050	<td>&lt;0.050</td> 04/18/2024       ND       2.07       104         <0.050	<0.050	<0.050	<td>&lt;0.050</td> 0.050       04/18/2024       ND       2.07       104       2.00       0.334         <0.050						<0.050

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## Analytical Results For:

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

Fax To:

Received: 04/16/2024 Sampling Date: 04/16/2024

Reported: 04/22/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: NW 6 (H242016-08)

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	04/18/2024	ND	2.07	103	2.00	0.321	
Toluene*	<0.050	0.050	04/18/2024	ND	2.07	104	2.00	0.334	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.01	100	2.00	0.230	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.15	102	6.00	0.347	
Total BTEX	<0.300	0.300	04/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/18/2024	ND	480	120	400	3.39	
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	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	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°C

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

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Page 11 of 11

# Received by OCD: 9/30/2024 5:05:27 PM

# Released to Imaging: 11/1/2024 3:32:09 PM

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## RDINAL LABORATORIES

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

Company Name	: Etech Environmental & Safety Solut	tions	, In	C.			$\neg$			BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						1	P.O. 1	#:							
Address: 261	7 West Marland							Comp	par	ıy	Mewbo	ume	1			
City: Hobbs	State: NM	Zip	: 88	240			1	Attn:			Connor Wa	alker				
Phone #: (57	5) 264-9884 Fax #:						1	Addr	ess	:						
Project #: 201	74 Project Owner	r:	Me	ewbo	ume			City:					1			
Project Name:	Dagger Draw Trunk Line						5	State	:	NM	Zip:		0	SM)	BTEX (8021B)	
Project Locatio	n: 32.580475, -104.470077						F	Phone #:					Chloride	TPH (8015M)	(80)	
Sampler Name:	Aaron Rios						F	Fax #:			S.	I	X			
FOR LAB USE ONLY			Г	Ι,	MA	TRIX	-	PF	RES	ERV	SAMPL	ING	1	1	ВТ	
<b>Lab I.D.</b> H242616	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COO!	OTHER:	DATE	TIME				
/	FL 18 @ 3.5'	С	1		X			T	)		4/16/24		Х	Х	Х	
$\mathcal{Q}$	NEW 1	C	1		X				>		4/16/24		Х	Х	Х	
	NEW 2	C	1		X				)		4/16/24		Х	Х	Х	
4	NEW 3	С	1		X				>		4/16/24		Х	Х	Х	
5	SEW 1	С	1		X				X	1	4/16/24		Х	Х	Х	
6	SEW 2	С	1		X				×	(	4/16/24		Х	Х	Х	
7	SWW 3	C	1		X			┸	×		4/16/24		Х	Х	Х	
8	NW 6	C	1		X			1	×		4/16/24		Х	Х	Х	
		┖					4	$\perp$	-							
nalyses. All claims includ ervice. In no event shall C	H16-24 Time: 455	Re	rega cei	ed urdee allon, but	whether	e verifice offsperson	g and H	octived i	by Co	relited to	office 30 days officed by o	r completion of t	he applicat des, se. suit: lt:	☐ Ye		No Add'I Phone #: No Add'I Fax #:
	: (Circle One)	4/	46	C	ool Yes	Intac	t	n	CI	(hit	(ED BY:	Please e	email r	esults	and o	copy of CoC to pm@etechenv.com.

FORM-006 Revision 1.0



May 03, 2024

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

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 8' (H242273-01)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	05/01/2024	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	05/01/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	12.7	10.0	05/01/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

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## Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 10' (H242273-02)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	05/01/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: TT 1 @ 12' (H242273-03)

BTEX 8021B

DILX OUZID	11197	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-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	05/01/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 14' (H242273-04)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	05/02/2024	ND	416	104	400	3.77	QM-07
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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 16' (H242273-05)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.9	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 20174

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 18' (H242273-06)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	< 0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	99.8 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9 9	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 20' (H242273-07)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.2	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 22' (H242273-08)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 24' (H242273-09)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.5	% 49.1-14	8						

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## Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 26' (H242273-10)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.1	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 1 @ 28' (H242273-11)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

ma/ka

## Sample ID: TT 2 @ 8' (H242273-12)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	30.6	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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## Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: TT 2 @ 10' (H242273-13)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 2 @ 12' (H242273-14)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 %	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	112 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 2 @ 14' (H242273-15)

RTFY 8021R

B1EX 8021B	mg/	<sup>и</sup> кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: TT 2 @ 16' (H242273-16)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.2	% 49.1-14	8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 2 @ 18' (H242273-17)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
<0.300	0.300	05/01/2024	ND					
126 9	% 71.5-13	4						
mg/	'kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
11100	16.0	05/02/2024	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/01/2024	ND	199	99.5	200	1.34	
<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
<10.0	10.0	05/01/2024	ND					
94.5	% 48.2-13	4						
84.3	% 49.1-14	8						
-	<0.050 <0.050 <0.050 <0.150 <0.300  126 9  mg/  Result 11100 mg/  Result <10.0 <10.0 <94.5	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 126 % 71.5-13 mg/kg Result Reporting Limit 11100 16.0 mg/kg Result Reporting Limit <a href="#">10.0</a> <10.0 <10.0 <10.0 <10.0 <48.2-13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 2 @ 20' (H242273-18)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	05/01/2024 ND 7.14 119		119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 2 @ 22' (H242273-19)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	5/01/2024 ND 2.35 118		2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024 ND 7.14		7.14	119	6.00	1.26	
Total BTEX	<0.300 0.300		05/01/2024 ND						
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane 96.5 % 4			4						
Surrogate: 1-Chlorooctadecane	87.0 % 49.1-148		8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: TT 3 @ 8' (H242273-20)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	83.7 % 49.1-148							

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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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 3 @ 10' (H242273-21)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	5/01/2024 ND 2.35 118 2		2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024 ND		7.14	119	6.00	1.26	
Total BTEX	<0.300 0.300		05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane 80.3 % 48.2-			4						
Surrogate: 1-Chlorooctadecane	71.9 % 49.1-148		8						

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## Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

## Sample ID: TT 3 @ 12' (H242273-22)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 3 @ 14' (H242273-23)

RTFY 8021R

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	05/01/2024 ND 2.35 118		2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300 0.300		05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	80.0 % 49.1-148		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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

## Sample ID: TT 3 @ 16' (H242273-24)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/01/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
rrogate: 1-Chlorooctane 90.7 % 48.2-1		4							
Surrogate: 1-Chlorooctadecane 81.0 % 49.			8						

Cardinal Laboratories \*=Accredited Analyte

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## **Notes and Definitions**

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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Page 27 of 29

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

Company Name	: Etech Environmental & Safety Solut		, Inc						-	<b>B</b> ][	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P	.0.1	#:							
Address: 261	7 West Marland						c	omp	oany		Mewbo	ume				
City: Hobbs	State: NM	Zip	882	40			A	ttn:			Connor Wa	lker	1			
Phone #: (575	5) 264-9884 Fax #:						A	ddre	ess:							
Project #: 201	74 Project Owner	:	Me	wbou	ıme		c	ity:							( X ( X ( X ( X	
	Dagger Draw Trunk Line								: NI	м	Zip:					
	n: 32.580475, -104.470077	_						State: NM Zip:   Phone #:   Phone Phon								
Sampler Name:		_					-	ax#	_				燕	H (8	×	
FOR LAB USE ONLY			П		MAT	RIX	-	-	ESE	ΚV.	SAMPLI	NG	١	T	B	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	V 1000 / 30	OTHER:	DATE	TIME				
	TT 1 @ 8'	G	1	T	X			Т	X	٦	4/24/24		Х	Х	Х	
	TT 1 @ 10'	G	1		X			Т	X		4/24/24		Х	Х	Х	
	TT 1 @ 12'	G	1		X			T	X		4/24/24		Х	Х	Х	
4	TT 1 @ 14'	G	1		X				X		4/24/24		Х	Х	Х	
5	TT 1 @ 16'	G	1		X				X		4/24/24		Х	Х	Х	
6	TT 1 @ 18'	G	1		X				X		4/24/24		Х	Х	Х	
フ	TT 1 @ 20'	G	1		X				X		4/24/24		Х	Х	X	
	TT 1 @ 22'	G	1		X				X		4/24/24		Х	Х	X	
9	TT 1 @ 24'	G	1		X				X		4/24/24		Х	Х	Х	
	TT 1 @ 26'	G	1		X				X		4/24/24		Х	Х	Х	
analyses. All claims includi service. In no event shall C affiliates or successors arisis Relinquished By Relinquished By	Time: Time: Time:	Re	d welve t limited regard ceiv	d unless ion, busi less of ed B	made in the made i	willing truption uch ch	and rens, loses	ceived I	by Cardi , or loss pon say	of proof the	thin 30 days after office incurred by o	r completion of the litert, its subsidier money or otherwise Phone Re-Fax Resul REMARKS	e application, e. suit: t:	□ Ye	s 🗆	□ No
	- Bus - Other: -9.6 c	4/4	40	Co	Yes No	ntac	Yes	,	(		als)					

FORM-006 Revision 1.0

Received by OCD: 9/30/2024 5:05:27 PM

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Page 28 of 29

	(575) 393-2326 FA	X (5/5) 393-24	16				_										Page 2 or 3
Company Name		al & Safety Soluti	ions	, Inc							BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw								P.O.	#:							
Address: 261	7 West Marland								Con	npan	ny	Mewbou	ıme				
City: Hobbs		State: NM	Zip:	882	240				Attn	:		Connor Wa	lker				
Phone #: (57	5) 264-9884	Fax #:							Add	ress	:					X X BTEX (8021B)	
Project #: 201	174	Project Owner	:	Me	wbou	ırne			City	:							
Project Name:	Dagger Draw Trunk Line	Э							State: NM Zip:					ا و ا	TPH (8015M)	21B	
Project Locatio	n: 32.580475, -104.47	0077							Phone #:					1 5	801	(80	
Sampler Name:								1	Fax	#:				Chloride	Ĭ	X	
FOR LAB USE ONLY				П		MAT	RIX		F	PRES	ERV.	SAMPLI	NG	1	1	B	
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	OTHER:	DATE	TIME				
1/	TT 1 @ 28'		G	1		X			Т	)		4/24/24		Х	Х	Х	
12	TT 2 @ 8'		G	1		X				)	(	4/24/24		Х	Х	Х	
13	TT 2 @ 10'		G	1		X				)	(	4/24/24		Х	Х	Х	
14	TT 2 @ 12'		G	1		Х				)	(	4/24/24		Х	Х	Х	
15	TT 2 @ 14'		G	1		X			_	)	(	4/24/24		Х	Х	Х	
14	TT 2 @ 16'		G	1		X			4	)	(	4/24/24		Х	Х	Х	
17	TT 2 @ 18'		G	1		X			4	)	(	4/24/24		Х	Х	Х	
18	TT 2 @ 20'		G	1		X			4	)	(	4/24/24		Х	Х	Х	
19	TT 2 @ 22'		G	1		X			4	)	-	4/24/24		Х	X	Х	
20	TT 3 @ 8'		G	1		X				)	-	4/24/24	buthe elect for	X	Х	Х	
nalyses. All claims includ	and Damages. Cardinal's liability and clie ling those for negligence and any other of	cause whatsoever shall be d	icemo	d waive	d unless	made in	welle	ng and	receive	ed by C	ardinal v	within 30 days after	completion of t	he applical	ble		
affiliates or successors aris	Cardinal be liable for incidental or consecuting out of or related to the performance	of services hereunder by Ca	ardinal,	regard	iless of v	vitetiter s	suen e	daim is	based	tupon a	any of th	e above stated re-	scons or otherwi	58.			
Relinquished B	thelive	Date: 29.24 Time: 442 Date:	0		ed B	M	a	la	4	U	Ma	Me	Phone Re Fax Resu REMARK	lt:	□ Ye		□ No Add'l Phone #: □ No Add'l Fax #:
G. Tiquionou D		Time.	1	0014	ou D								Please email results and copy of CoC to pm@etechenv.com				
Delivered By	: (Circle One)	力	1/0	10		mple			n	CI		ED BY:	D BY:				
Sampler - UPS	- Bus - Other:	-9.60	17			Yes	4	Yes		0	(Initi	ials)	5)				

FORM-006 Revision 1.0

Received by OCD: 9/30/2024 5:05:27 PM

Page 29 of 29

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Page 3 of 3 any Name: Etech Environmental & Safety Solutions, Inc. BILL TO ANALYSIS REQUEST

Company Name	e: Etech Environmenta	I & Safety Solut	ions	, Inc	-			8		- 4	<i>:][</i>	LL TO					ANALYSIS REQUEST
Project Manage	er: Lance Crenshaw							P.	O. #	:							
Address: 261	17 West Marland							C	omp	any		Mewbo	ume			H	
City: Hobbs		State: NM	Zip	88	240			A	tn:		(	Connor Wa	lker				
Phone #: (57	5) 264-9884	Fax #:						A	ddre	ss:							1
Project #: 201	174	Project Owner	:	Me	wbou	rne		C	ity:							_	
Project Name:	Dagger Draw Trunk Line	)						State: NM Zip:				Zip:		ا و	TPH (8015M)	BTEX (8021B)	
Project Locatio	n: 32.580475, -104.470	0077						P	hone	#:				Chloride	801	(8)	
Sampler Name:	Aaron Rios							Fax #:					흥	I	X		
FOR LAB USE ONLY						MATE	XIX		PR	ESEF	₹V.	SAMPLI	NG	1	F	E	
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
21	TT 3 @ 10'		G	1		Х				X		4/24/24		Х	Х	Х	
33	TT 3 @ 12'		G	1		X				Х	1	4/24/24		Х	Х	Х	
23	TT 3 @ 14'		G	1		X	1			X	4	4/24/24		Х	Х	Х	
34	TT 3 @ 16'		G	1		X	1	_		X	4	4/24/24		Х	Х	Х	
				Н		$\sqcup$	+	_	$\vdash$	$\vdash$	4			$\vdash$		$\vdash$	
			L	Н		$\vdash$	+	-	H	-	4					$\vdash$	
			$\vdash$	Н		$\vdash$	+	+	$\vdash$		+			$\vdash$		$\vdash$	
			$\vdash$	Н	-	-	+	+	$\vdash$		+	_		-	_	$\vdash$	
			Н	Н	$\vdash$	$\vdash$	+	+	Н	-	+					$\vdash$	
analyses. All claims includ service. In no event shall C	Ind Damages, Cardinal's liability and clien ing those for negligence and any other ca cardinal be liable for incidental or consequing out of or related to the performance of	use whatsoever shall be cuental demages, including	leeme withou	t Henita	d unless a tion, busin	nade in v	riling : uplion	and rec	oired by of use, o	Cardi	nal will of proi	thin 30 days after the incurred by o	r completion of the	no applicab los,	ole		
Relinquished B	The	Date: 447 Time: 447 Date:	Re	ceiv	red By red By	: Uli	the	1	(1			by	Phone Re Fax Resul REMARKS	sult: t:	□ Ye		No Add'I Phone #: No Add'I Fax #:
	: (Circle One) - Bus - Other:		1/4	40	Co	rple Columnia	tact	/	•	(1	CKE nitia	ED BY:	Please e	mail r	esults	and c	copy of CoC to pm@etechenv.com.

FORM-006 Revision 1.0



May 03, 2024

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

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Coo

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

A ..... I ..... . J D. ... 711

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 65 @ 6' (H242274-01)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.9	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 66 @ 6' (H242274-02)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	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:

Applyzod By: 14

1 dx

04/29/2024 05/03/2024

DAGGER DRAW TRUNK LINE

Project Number: 20174

Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024

Sampling Type: Soil

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

·

#### Sample ID: FL 67 @ 8' (H242274-03)

Received:

Reported:

RTFY 8021R

Project Name:

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 68 @ 8' (H242274-04)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.6	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 69 @ 8' (H242274-05)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 70 @ 8' (H242274-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	1.76	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	0.726	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	5.71	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	8.27	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/02/2024	ND	464	116	400	7.14	
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*	47.3	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	11.3	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	18						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 71 @ 8' (H242274-07)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 72 @ 8' (H242274-08)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4200	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 73 @ 8' (H242274-09)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	05/02/2024	ND	464	116	400	7.14	
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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 74 @ 8' (H242274-10)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 75 @ 8' (H242274-11)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 76 @ 8' (H242274-12)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.3	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 77 @ 8' (H242274-13)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: 20174 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 78 @ 8' (H242274-14)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 79 @ 8' (H242274-15)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21400	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.8	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 80 @ 8' (H242274-16)

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23000	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.5	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 81 @ 8' (H242274-17)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.2	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 82 @ 8' (H242274-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	0.059	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	154	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	25.8	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celey D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 83 @ 8' (H242274-19)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	< 0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	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: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 84 @ 8' (H242274-20)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	< 0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	< 0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	33.5	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	97.4 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.79	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: 20174 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 85 @ 8' (H242274-21)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.5	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 86 @ 8' (H242274-22)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 87 @ 8' (H242274-23)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 88 @ 8' (H242274-24)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0 10.0		05/01/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 89 @ 8' (H242274-25)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>12000</b> 16.0		05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36			05/01/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2 % 49.1-148		8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE 32.580475,-104.470077

mg/kg

#### Sample ID: FL 90 @ 8' (H242274-26)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36			05/01/2024	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 91 @ 8' (H242274-27)

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	05/02/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7100	16.0	05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0 10.0		05/01/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 04/29/2024 Sampling Date: 04/24/2024

Reported: 05/03/2024 Sampling Type: Soil

Project Name: DAGGER DRAW TRUNK LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: 20174 Tamara Oldaker

Project Location: MEWBOURNE 32.580475,-104.470077

#### Sample ID: FL 92 @ 8' (H242274-28)

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	05/02/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>6480</b> 16.0		05/02/2024	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	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36			05/01/2024	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	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°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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 31 of 33

	(575) 393-2326 FAX (575) 393-2476													Page 1	013	
Company Name	e: Etech Environmental & Safety	Solutions	, In	C.					B	ILL TO					ANALYSIS REQUEST	
Project Manage	er: Lance Crenshaw						F	P.O.	#:							
Address: 261	7 West Marland							Com	pany	Mewbo	ume					
City: Hobbs	State: NA	1 Zip	: 88	240			1	Attn:		Connor Wa	alker					
Phone #: (57	5) 264-9884 Fax #:						1	Addr	ess:			1			1 1 1 1 1 1 1	
Project #: 201	74 Project O	wner:	Me	ewbo	ırne			City:				1	_		1 1 1 1 1 1 1	
Project Name:	Dagger Draw Trunk Line						5	State: NM Zip:							1 1 1 1 1 1 1	
roject Locatio	n: 32.580475, -104.470077						F	Phor	ne #:			Chloride	TPH (8015M)	BTEX (8021B)		
Sampler Name:	Aaron Rios						F	ax i	k:			등		EX		
FOR LAB USE ONLY		Τ.	Г	Ι.,	MAT	RIX	(	PI	RESER	SAMPLING		1	F	E I	1 1 1 1 1 1 1	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ICE / COOL Y	DATE	TIME					
1	FL 65 @ 6'	С	1		X				Х	4/24/24		Х	Х	Х		
2	FL 66 @ 6'	С	1		X				X	4/24/24		Х	Х	Х		
3	FL 67 @ 8'	c	1		X				X	4/24/24		Х	Х	Х		
4	FL 68 @ 8'	С	1		X			1	X	4/24/24		Х	Х	Х		
5	FL 69 @ 8'	С	1		X			1	X	4/24/24		Х	Х	Х		
6	FL 70 @ 8'	С	1	$\perp$	X			1	X	4/24/24		Х	Х	Х		
	FL 71 @ 8'	С	-	$\perp$	X			4	X	4/24/24		Х	X	Х		
_	FL 72 @ 8'	С	1	$\perp$	X			1	X	4/24/24		Х	X	Х		
	FL 73 @ 8'	С	1	$\vdash$	X		1	+	X	4/24/24		Х	X	Х		
	FL 74 @ 8' Damages. Cardinal's liability and client's exclusive reme	C du for any cla	1	no whoth	X	in cor	ntract or	tort eb	X In all he limite	4/24/24	id by the client for	X	Х	Х		
nalyses. All claims includ	ing those for negligence and any other cause whatsoever s cardinal be liable for incidental or consequental damages, i	hall be deem	d wei	red unless	made in	wellin	ng and n	ecelved	by Cardine	d within 30 days aft	or completion of t	he applical	ble			
ffiliates or successors aris	ing out of or related to the performance of services hereund	er by Cardina	í, rega	rdless of	vhether s	such c	claim is i	ased o	port any of	the above stated re	earons or otherwi	\$0.	=			
relinquisted By:  Date: 4-29-24 Received By:  Time: 14-2 Received By:						ta	la	Ma	KRR	Fax Resu REMARK	lt:	□ Ye		No Add'l Phone #: No Add'l Fax #:		
Relinquished B	Date: Received By:									1						
Time:											Diagram	macil -	oo. K	and	convert CoC to nm@stochom.com	
	elivered By: (Circle One)  ###################################						ondition CHECKED BY:					ernali r	esurs	and (	copy of CoC to pm@etechenv.com.	
Sampler - UPS	mpler - UPS - Bus - Other:						Yes		A	0						

FORM-006 Revision 1.0

# RDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 32 of 33

(5/5) 393-2320 FAX (5/5) 393-24/6						Page 2								013											
Company Name	: Etech Environmenta	al & Safety Solution	ons,	, Inc.							BI	LL TO		-				ANA	LYS	IS RE	QUE	ST			
Project Manage	r: Lance Crenshaw								P.C	O. #:															
Address: 261	7 West Marland								Co	mpa	ny	Mewbo	ume												
City: Hobbs		State: NM	Zip:	882	40				Att	n:		Connor Wa	alker	1											
Phone #: (57	5) 264-9884	Fax #:							Ad	dres	s:			1											
Project #: 201	74	Project Owner:		Me	wbou	ırne			Cit	y:				1		_	1	1							
Project Name:	Dagger Draw Trunk Line	)								_	NM	Zip:		Chloride	€ W	(8021B)									
Project Location	n: 32.580475, -104.47	0077							Phone #:						80	80									
Sampler Name:	Aaron Rios								Fax #:						TPH (8015M)	BTEX									
FOR LAB USE ONLY				П	MATRIX				PRESERV. SAMPLIN			ING	1	1	BT										
Lab I.D. <i>H242274</i>	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL COTHER:	DATE	TIME												
	FL 75 @ 8'		С	1		Х					х	4/24/24		Х	Х	Х									
12	FL 76 @ 8'		С	1		X					X	4/24/24		Х	Х	Х									
13	FL 77 @ 8'		С	1		X					X	4/24/24		Х	Х	Х									
14	FL 78 @ 8'		С	1		X					X	4/24/24		Х	Х	Х									
15	FL 79 @ 8'		С	1		X					X	4/24/24		Х	Х	X									
16	FL 80 @ 8'		С	1		X					X	4/24/24		Х	Х	X									
17	FL 81 @ 8'		С	1		X					X	4/24/24		Х	Х	Х									
18	FL 82 @ 8'		С	1		X					X	4/24/24		Х	х	Х									
	FL 83 @ 8'		С	1		X				$\rightarrow$	X	4/24/24		Х	Х	Х									
	FL 84 @ 8'		С	1		X			Ц		X	4/24/24		X	Х	X									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in analyses. All claims including those for negligence and any other cause winatcover shall be deemed waived unless made in we service. In no event shall Cardinal be liable for incidental or consequential damages, including utilized timbulion, business internal relitates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether suc Relinquished By:    Received By:						with	ng and lons, lo	recei	ved by	Cardinal	within 30 days after	r completion of ti illent, its subsidia asons or otherwi Phone Re Fax Resu REMARK	the applications, ise. escult: it: S:	□ Ye	es D	No No	Add'l Add'l	Fax#	:						
	Delivered By: (Circle One)  Sampler - UPS - Bus - Other:						Inta	ct	_	0	(Init	(ED BY: ials)	Please e	email r	esults	s and	сору	of Co(	C to p	om@e	techer	IV.COM			
Sampler - UPS - Bus - Other: $-9.6c$				Yes Yes																					

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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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### RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2476																					Page 3 o	f 3	
Company Name	: Etech Environmental	& Safety Solution	ons,	Inc.							BI	LL TO					ANA	ALYSI	S RE	QUE	ST			
Project Manage	r: Lance Crenshaw								P.O.	#:														П
Address: 261	7 West Marland								Com	pan	ıy	Mewbo	ume						1					- 1
City: Hobbs		State: NM 2	Zip:	882	40				Attn	:		Connor Wa	iker											- 1
Phone #: (57	5) 264-9884	Fax #:							Add	ress	:			1										- 1
Project #: 201	74	Project Owner:		Me	vbou	rne		-	City	:				1										- 1
Project Name:	Dagger Draw Trunk Line							1	Stat	e:	NM	Zip:		۰	2W)	(8021B)			1					
Project Location	n: 32.580475, -104.470	077						1	Pho	ne #	:			Chloride	TPH (8015M)	80								- 1
Sampler Name:	Aaron Rios								Fax	#:				ਤਿੰ		ВТЕХ				1 1				- 1
FOR LAB USE ONLY			MATRIX					PRESERV. SAMPL			NG	1	1	B								- 1		
Lab I.D. Sample I.D.			(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	отнек:	DATE	TIME											
21	FL 85 @ 8'		С	1		X				×		4/24/24		Х	Х	Х								
	FL 86 @ 8'		С	1		X				×		4/24/24		Х	Х	Х								
	FL 87 @ 8'		С	1		X				×		4/24/24		Х	Х	Х								
	FL 88 @ 8'		С	1		X			1	×		4/24/24		Х	X	Х								_
	FL 89 @ 8'		С	1	1	X			1	X		4/24/24		Х	Х	Х								$\perp$
	FL 90 @ 8'		С	1	_	X			1	X		4/24/24		Х	Х	Х								_
	FL 91 @ 8'		С	1		X			1	X		4/24/24		Х	Х	Х								$\perp$
28	FL 92 @ 8'		С	1		X			4	X		4/24/24		Х	Х	Х								4
			4	$\sqcup$	+	+		-	+	+	+			_										-
PLEASE NOTE: Liability and Damages. Cardinel's liability and client's exclusive remedy for any claim arising whether based in or analyses. All claims including lines for negligence and any other cause whetherover shall be deemed weived unless made in wisservice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interru affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal arising whether based in client's exclusive remedy for any client's exclu									ecolve es of us based	d by Ca se, or lo spon e	erdinal was of property of the	official 30 days office office incurred by control of the observed studied record studied record studied record studied record studied record of the observed studied record of the observ	r completion of tillent, its subsidier seems or otherwis Phone Re Fax Resul REMARKS	no application, no. sult: lt: S:	□ Ye	s 🗆		'I Phone 'I Fax #:		techen	v.com			
	elivered By: (Circle One)  Impler - UPS - Bus - Other:  9								act (Initials)															

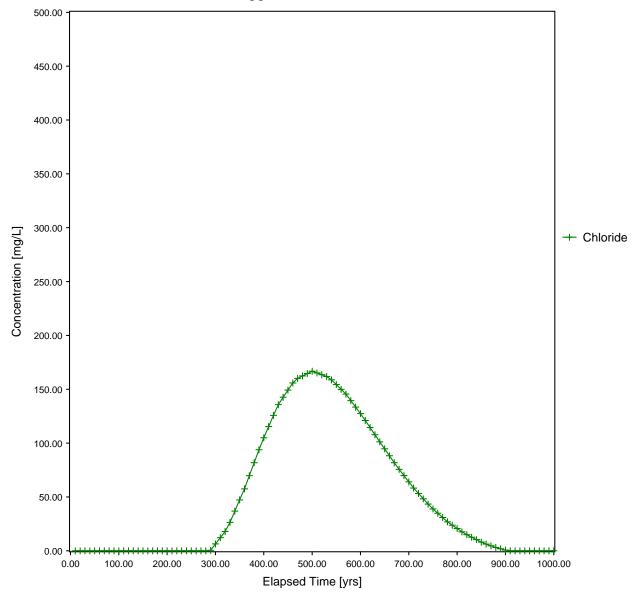
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

### Appendix E Multimedia Exposure Assessment Model (MULTIMED)

Received by OCD: 9/30/2024 5:05:27 PM

# Chloride Concentration at the Receptor Well (w/ Liner) Mewbourne Oil Company Dagger Draw Trunk Line



```
MULTIMED V1.01
                   DATE OF CALCULATIONS: 5-JUN-2024 TIME: 23:13: 0
                               ENVIRONMENTAL PROTECTION AGENCY
                                      EXPOSURE ASSESSMENT
Imagin
                                        MULTIMEDIA MODEL
                                      MULTIMED (Version 1.50, 2005)
Stitched to Stehfest algorithm to avoid numerical problems
with Convolution algorithm. Problems were caused by
high source decay rate. Everything ok now, execution continuing...
Run options
Mewbourne Oil Company
Dagger Draw Trunk Line
Chemical simulated is Chloride
Option Chosen
                                    Saturated and unsaturated zone models
Run was
                                    DETERMIN
Infiltration Specified By User: 7.620E-03 m/yr
Run was transient
Well Times: Find Maximium Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)
       - Total number of nodal points
                                                    240
NP
       - Number of different porous materials
TAMN
                                                      6
KPROP - Van Genuchten or Brooks and Corey
                                                      1
```

1

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

IMSHGN - Spatial discretization option

NVFLAYR - Number of layers in flow model

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY

1 1.52 1

#### 0.31 1 0.61 2.13 1.52 1 11.00

0.61 2.13 1.52 11.00	DATA F(	OR MATERIAL 1					Received by OCD
	VADOSE ZONI	E MATERIAL VARIABL	ES				: 9/30/202
VARIABLE NAME	UNITS	DISTRIBUTION	PARA MEAN	METERS STD DEV	LI MIN	MITS MAX	24 5:05:2
Saturated hydraulic conductivity Unsaturated zone porosity Air entry pressure head Depth of the unsaturated zone	cm/hr  m m	CONSTANT CONSTANT CONSTANT CONSTANT CONSTANT	5.00 0.500 0.200 17.1	-999. -999. -999. 0.000	-999. -999. -999. 0.000	-999. -999. -999. 0.000	27 PM

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAM	 ETERS	LIMITS		
			MEAN	STD DEV	MIN	MAX	
Residual water content		CONSTANT	0.100	-999.	-999 <b>.</b>	-999.	
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.	
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.	
Van Genuchten exponent, ENN		CONSTANT	1.50	-999.	-999.	-999.	

DATA FOR MATERIAL 2

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAI MEAN	METERS STD DEV	LI MIN	MITS MAX	
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500E-0	 1 -999.	-999 <b>.</b>	-999 <b>.</b>	
Unsaturated zone porosity		CONSTANT	0.200	-999.	-999.	-999.	
Air entry pressure head	m	CONSTANT	1.00	-999.	-999.	-999.	
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000	P

DATA FOR MATERIAL 2

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	UNITS DISTRIBUTION		ETERS	LI	LIMITS		
			MEAN	STD DEV	MIN	MAX	eive	
Residual water content		CONSTANT	0.700E-01	-999.	-999.	-999 <b>.</b>	jd b	
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.	6	
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.	Š	
Van Genuchten exponent, ENN		CONSTANT	1.50	-999.	-999.	-999.	D:	
							9%	
							, i	
	DATA F	FOR MATERIAL 3					20.	

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA MEAN	METERS STD DEV	LI	MITS MAX	MA
Saturated hydraulic conductivity Unsaturated zone porosity Air entry pressure head Depth of the unsaturated zone	cm/hr  m m	CONSTANT CONSTANT CONSTANT CONSTANT	0.100E-0 0.450 0.300 17.1	2 -999. -999. -999. 0.000	-999. -999. -999. 0.000	-999. -999. -999. 0.000	

# DATA FOR MATERIAL 3

----

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS DISTRIBUTION		PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content		CONSTANT	0.100	-999.	-999 <b>.</b>	-999 <b>.</b>
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.100E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.20	-999.	-999.	-999.

# DATA FOR MATERIAL 4

---- --- -----

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500E-01	-999.	-999 <b>.</b>	-999 <b>.</b>
Unsaturated zone porosity		CONSTANT	0.200	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	1.00	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

# DATA FOR MATERIAL 4

\_\_\_\_

# VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMI	ETERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
esidual water content		CONSTANT	0.700E-01	-999 <b>.</b>	-999 <b>.</b>	-999.
Brook and Corey exponent,EN		CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.50	-999.	-999.	-999.
	DATA F	FOR MATERIAL 5				
	VADOSE ZON	NE MATERIAL VARIABL	ES			

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS MEAN STD DEV		LI	MITS MAX	
Saturated hydraulic conductivity Unsaturated zone porosity Air entry pressure head Depth of the unsaturated zone	cm/hr  m	CONSTANT CONSTANT CONSTANT CONSTANT CONSTANT	20.0 0.350 0.200 17.1	-999. -999. -999.	-999. -999. -999.	-999. -999. -999.	

# DATA FOR MATERIAL 5

# VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS DISTRIBUTION		PARAM	 ETERS	LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content		CONSTANT	0.500E-01	-999.	-999 <b>.</b>	-999 <b>.</b>
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.80	-999.	-999.	-999.

# DATA FOR MATERIAL 6

#### ---- --- -----

# VADOSE ZONE MATERIAL VARIABLES

							Pa.
VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS		e
			MEAN	STD DEV	MIN	MAX	220
Saturated hydraulic conductivity Unsaturated zone porosity	cm/hr 	CONSTANT CONSTANT	0.500 0.400	-999. -999.	-999. -999.	-999. -999.	of 271

# m CONSTANT CONSTANT

0.600 17.1

-999. 0.000 -999. 0.000 -999.

0.000

DATA FOR MATERIAL 6

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	ON PARAMETERS		LI	MITS	
			MEAN	STD DEV	MIN	MAX	707
Residual water content		CONSTANT	0.800E-01	-999 <b>.</b>	-999 <b>.</b>	-999 <b>.</b>	
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.	S
ALFA coefficient	1/cm	CONSTANT	0.200E-01	-999.	-999.	-999.	i i
Van Genuchten exponent, ENN		CONSTANT	1.50	-999.	-999.	-999.	

# UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	_	Number of different layers	used	6
NTSTPS	-	Number of time values cond	centration calc	40
DUMMY	-	Not presently used		1
ISOL	-	Type of scheme used in uns	saturated zone	1
N	-	Stehfest terms or number of	of increments	18
NTEL	-	Points in Lagrangian inter	rpolation	3
NGPTS	-	Number of Gauss points		104
NIT	-	Convolution integral segme	ents	2
IBOUND	-	Type of boundary condition	ı	3
ITSGEN	-	Time values generated or	input	1
TMAX	-	Max simulation time		0.0
WTFUN	-	Weighting factor		1.2

# OPTIONS CHOSEN

Released to Imaging: 11/1/2024 3:32:09 PM

Stehfest numerical inversion algorithm Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER

\_\_\_\_

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS		-	
			MEAN	STD DEV	MIN	MAX		
Fhickness of layer	m	CONSTANT	1.52	-999.	-999 <b>.</b>	-999 <b>.</b>		
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.		
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.		
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.		

	DATA F	OR LAYER 2					
	VADOSE	TRANSPORT VARIABL	ES				- C
VARIABLE NAME	UNITS	DISTRIBUTION	PARA	 METERS	LI	MITS	
			MEAN	STD DEV	MIN	MAX	
Thickness of layer	m	CONSTANT	0.310	-999 <b>.</b>	-999 <b>.</b>	-999.	
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.	5
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.	9
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.	j
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.	1

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	0.610	-999.	-999 <b>.</b>	-999 <b>.</b>
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	PARAMETERS		MITS
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	2.13	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.50	-999.	-999.	-999.
Biological decay coefficient	1/vr	CONSTANT	0.000	-999.	-999.	-999

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX	<i>Sece</i>
Thickness of layer	m	CONSTANT	1.52	-999.	-999.	-999 <b>.</b>	1000
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.	Ş
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.	2
Bulk density of soil for layer	g/cc	CONSTANT	1.50	-999.	-999.	-999.	3
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.	?
							· ·
	DATA F	FOR LAYER 6					

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS	N N
			MEAN	STD DEV	MIN	MAX	
Thickness of layer	 m	CONSTANT	11.0	-999.	 -999.	 -999.	
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.	
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.	
Bulk density of soil for layer	g/cc	CONSTANT	1.50	-999.	-999.	-999.	
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.	

# CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA MEAN	METERS STD DEV	LIMITS MIN MAX			
			MEAN	21D DEV				
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.		
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.		
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.		
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.		
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.		
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.		
Reference temperature	С	CONSTANT	25.0	-999.	-999.	-999.		
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.		
Distribution coefficient		DERIVED	-999.	-999.	-999.	-999.		
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.		
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.	-999.	-999.		
Reference temperature for air diffusion	С	CONSTANT	-999.	-999.	-999.	-999.		
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.		
Mole fraction of solute		CONSTANT	-999.	-999.	-999.	-999.		
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.		
Henry's law constant a	tm-m^3/M	CONSTANT	-999.	-999.	-999.	-999.		
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00	<b>—</b>	
Not currently used	_	CONSTANT	0.000	0.000	0.000	0.000	Page	
Not currently used		CONSTANT	0.000	0.000	0.000	0.000	2	

SOURCE SPECIFIC VARIABLES

1

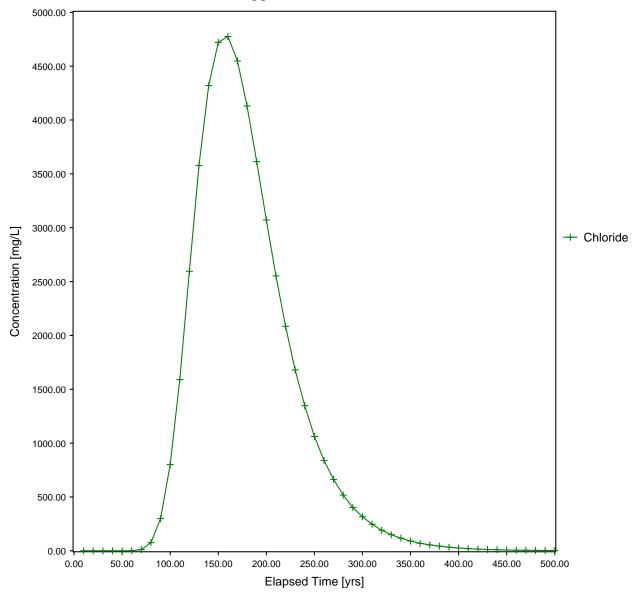
VARIABLE NAME	UNITS	DISTRIBUTION	PARAME	ETERS	LIMITS		
			MEAN	STD DEV	MIN	MAX	7
Infiltration rate	m/yr	CONSTANT	0.762E-02	-999.	-999.	-999 <b>.</b>	
Area of waste disposal unit	m^2	CONSTANT	774.	-999.	-999.	-999.	Į.
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	
Initial concentration at landfill	mg/1	CONSTANT	0.730E+04	-999.	-999.	-999.	
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	
Near field dilution		DERIVED	1.00	0.000	0.000	1.00	

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999 <b>.</b>	-999.	-999 <b>.</b>	-999 <b>.</b>
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-0	2 -999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient		DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
рН		CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

MAXIMUM WELL CONCENTRATION IS 166.8 AT 500 YEARS

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# Chloride Concentration at the Receptor Well (No Liner) Mewbourne Oil Company Dagger Draw Trunk Line



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U.S. ENVIRONMENTAL PROTECTION AGENCY
```

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging noptions

Membourne Oil Company

MULTIMED V1.01

Diger Draw Trunk Line

Ckemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models

DATE OF CALCULATIONS: 5-JUN-2024 TIME: 22:29:25

Run was DETERMIN

Infiltration Specified By User: 3.048E-02 m/yr

Run was transient

Well Times: Find Maximium Concentration Reject runs if Y coordinate outside plume Reject runs if Z coordinate outside plume Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS

(input parameter description and value)

- Total number of nodal points 240 NMAT - Number of different porous materials KPROP - Van Genuchten or Brooks and Corey 1 IMSHGN - Spatial discretization option 1 NVFLAYR - Number of layers in flow model

#### OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

# Layer information

PROPERTY	MATERIAL	THICKNESS	LAYER	NO.	LAYER
1 1 1 1		1.52 3.05 1.52 11.00			1 2 3 4

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	5.00	-999.	-999 <b>.</b>	-999 <b>.</b>
Unsaturated zone porosity		CONSTANT	0.500	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.200	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

# DATA FOR MATERIAL 1

---- --- -----

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# VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAM:	 ETERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Residual water content		CONSTANT	0.100	-999 <b>.</b>	-999 <b>.</b>	-999 <b>.</b>
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.50	-999.	-999.	-999.

# DATA FOR MATERIAL 2

---- ----

# VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAM	 ETERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500E-01	-999.	-999.	-999 <b>.</b>
Unsaturated zone porosity		CONSTANT	0.200	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	1.00	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

# DATA FOR MATERIAL 2

----

# VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	 PARAMETERS		 LIMITS
			MEAN STD	DEV MIN	MAX
Residual water content		CONSTANT	0.700E-01 -999.	-999 <b>.</b>	-999 <b>.</b>
Brook and Corey exponent, EN		CONSTANT	-999999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02 -999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.50 -999.	-999.	-999.

DATA FOR MATERIAL 3

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VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	20.0	-999.	-999 <b>.</b>	-999.
Insaturated zone porosity		CONSTANT	0.350	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.200	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

# DATA FOR MATERIAL 3

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMI MEAN	ETERS STD DEV	LI	MITS MAX
					MTIN	
Residual water content		CONSTANT	0.500E-01	-999.	-999.	-999.
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.80	-999.	-999.	-999.

# DATA FOR MATERIAL 4

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	 METERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500	-999.	-999 <b>.</b>	-999 <b>.</b>
Unsaturated zone porosity		CONSTANT	0.400	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.600	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

# DATA FOR MATERIAL 4

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMI MEAN	ETERS STD DEV	LI MIN	MITS MAX
Residual water content		CONSTANT	0.800E-01	 -999.	-999 <b>.</b>	-999.
Brook and Corey exponent, EN		CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.200E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN		CONSTANT	1.50	-999.	-999.	-999.

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NLAY	_	Number of different layers used	4
NTSTPS	_	Number of time values concentration cal	lc 40
D∰MY	_	Not presently used	1
I፟፠L	_	Type of scheme used in unsaturated zone	e 2
$N \stackrel{\sim}{\approx}$	_	Stehfest terms or number of increments	18
NŒL	_	Points in Lagrangian interpolation	3
NGPTS	_	Number of Gauss points	104
NET	_	Convolution integral segments	2
I@OUND	_	Type of boundary condition	3
I.SGEN	_	Time values generated or input	1
TMAX	_	Max simulation time	0.0
WWUN	_	Weighting factor	1.2
1			
26			

OMIONS CHOSEN

Convolution integral approach
Exponentially decaying continuous source

Computer generated times for computing concentrations

DATA FOR LAYER VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS DISTRIBUTION		PARA	METERS	LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	1.52	-999 <b>.</b>	-999 <b>.</b>	-999 <b>.</b>
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS DISTRIBUTION		PARA	 METERS	LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	3.05	-999 <b>.</b>	-999 <b>.</b>	-999 <b>.</b>
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

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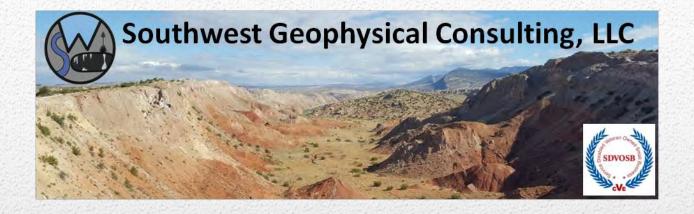
Area of waste disposal unit	m^2	CONSTANT	774.	-999.	-999.	-999.
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.224E+05	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

# AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter		CONSTANT	-999 <b>.</b>	-999.	-999.	-999.
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient		DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
рН		CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

MAXIMUM WELL CONCENTRATION IS 4815 AT 158 YEARS

# Appendix F Karst Survey



# Cave and Karst Resource Inventory Report Dagger Draw Trunkline Release Eddy County, New Mexico

**Prepared for:** 

eTech Environmental & Safety Solutions, Inc.
2617 West Marland Blvd.
Hobbs, NM 88240

- ☐ Positive within 200 feet of release footprint
- **☑** Negative within 200 feet of release footprint

August 23, 2024

ETEC-007-20240716

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# **MMXXIV**

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This report does not contain any tables.

# 1.0 INTRODUCTION

An environmental karst survey was commissioned by eTech Environmental and Safety Solutions, Inc. (hereinafter referred to as "the client"), on July 16, 2024, for the purpose of determining the presence of karst-related surface features within the Dagger Draw Trunkline Release project site (hereinafter termed "DDTL").

As indicated in section **1.3 Affected Environment**, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during remediation by conducting a geophysical survey, and by the control of site hydrology. The owner/developer must recognize, however, that a risk of sinkhole collapse during remediation processes does exist. The owner/developer must evaluate the risks and attendant costs of not performing a geophysical survey prior to remediation and must be willing to accept these risks if it is decided that the cave survey is sufficient. Southwest Geophysical Consulting can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

# 1.1 Goals of this Study

To provide the client with the location and description of any surface karst-related features within 200 meters of the spill delineation boundary for the DDTL project site as provided by the client (Dagger Draw Trunk Line GeoMeasure\_2024-03-22-10-36-07) via e-mail on July 16, 2024.

# 1.2 Summary of Findings

No surface karst features are located within 200 feet (61 meters) of the spill delineation boundary.

Pseudokarst (soil piping) was observed within the survey area. While not karst, soil piping still presents a trip and fall hazard for personnel, and tipping hazard for equipment and should be avoided if possible.

The lack of surface karst features does not mean the area is not karstified and the survey area may still contain buried karst features. Caution should be exercised while clearing brush and during any excavation, trenching, or construction operations. Employing a Bureau of Land Management approved karst monitor on site during these operations should be considered.

# 1.3 Affected Environment

The DDTL project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The three primary concerns in these types of terrain are environmental issues, worker safety, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers<sup>[1]</sup>. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)<sup>[2]</sup> (**Figure 1**).

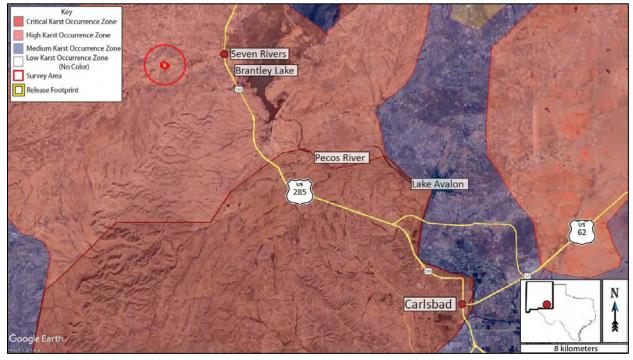


Figure 1: Karst occurrence zone overview. Background image: Google Earth. Image date: January 8, 2024. Datum: WGS-84.

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat<sup>[1]</sup>.

# 1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of eTech Environmental & Safety Solutions, Inc., in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to conducting any remediation activities if these activities will impinge into the recommended buffers.

To the best of our knowledge, information contained in this report is accurate at the date of issue; however, conditions on the site can change in a limited time and, therefore, the information in this report shall not be used beyond three years past the date of imagery collection (see section *2.3 Description of Survey*).

# 2.0 LOCATION AND DESCRIPTION OF STUDY AREA

# 2.1 Description of Site

The DDTL project site is located in Eddy County, New Mexico, 29 kilometers (18 miles) northwest of Carlsbad, New Mexico, west of US285, at and just north of the South Seven Rivers arroyo (**Figure 1** and **Figure 2**). The survey area is within sections 10 and 15 of NM T20S R25E<sup>[3]</sup>. The region is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January<sup>[4]</sup>. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map<sup>[5]</sup> and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca, with very good visibility in most locations. See section **2.2 Local Geology** for the geology of the area. The project site is located entirely within an HKOZ<sup>[2]</sup> (**Figure 1**) and within privately managed land<sup>[6]</sup> (**Figure 2**).

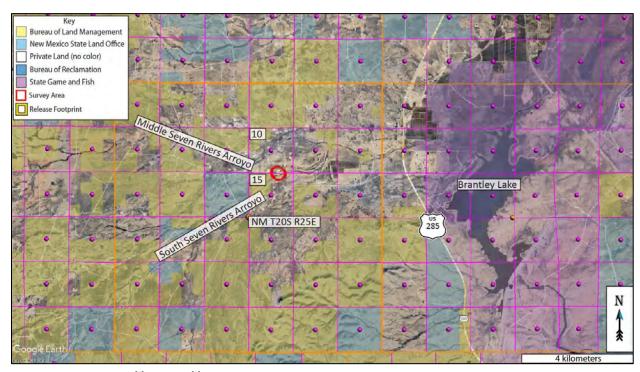


Figure 2: Land ownership<sup>[6]</sup> and PLSS<sup>[3]</sup> overview. Background image credit: Google Earth. Image date: January 8, 2024. Datum: WGS-84.

# 2.2 Local Geology

The area surveyed for the DDTL project is located at an elevation of 1,037 meters (3,402 feet),  $\pm$  7 meters (23 feet), and is underlain by the Permian Artesia Group (Pat). The area is mantled by thin gypsiferous soils and Quaternary piedmont gravels (Qp)<sup>[7]</sup> between 0 and 6 meters in depth (**Figure 3**).

The Artesia Group consists of the Greyburg and Queen Formations (Pqg), the Seven Rivers Formation (Psr), the Yates Formation (Py), and the Tansill Formation (Pt)<sup>[8]</sup>. At this location, it is most likely that the Seven Rivers Formation immediately underlies the Quaternary units, and that the Yates and Tansill have been eroded away.

The Seven Rivers is a back-reef facies containing interbeds of dolomite and gypsum with occasional sandstone lenses and thickly bedded anhydrite. Both the dolomite and gypsum/anhydrite are subject to karst formation. From north to south, the Seven Rivers transitions from an evaporite facies to a basin facies near the reef escarpment. This facies is prone to karst formation, especially along the contact with the Capitan Reef Front further to the south<sup>[8]</sup>.

The Seven Rivers overlies the Permian Queen Formation, a calcite rich siliciclastic unit<sup>[8]</sup>. Beneath the Queen lies the Greyburg, a dolomitic limestone.



Figure 3: Geology overview. Map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format<sup>[9]</sup>, and Google Earth. Image date: January 8, 2024. Datum: WGS-84.

# 2.3 Description of Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using drones that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys. In addition, a field investigation was conducted at the request of the client to determine whether subsidence occurring at the site was karst-related.

Aerial karst surveys are conducted at low elevation following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 4**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by a highly qualified karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report<sup>[10]</sup>.

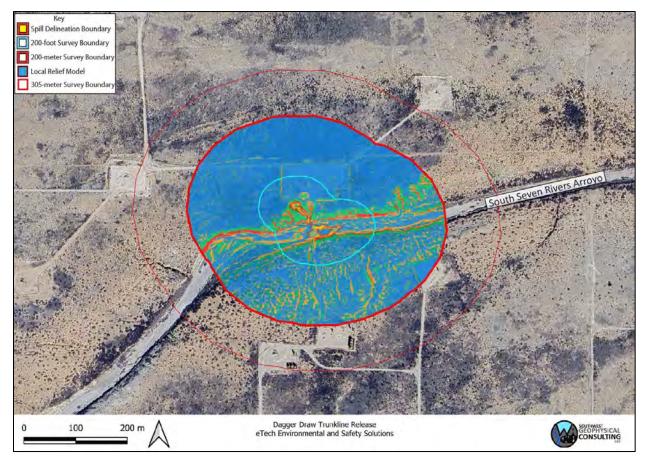


Figure 4: Survey overview. Background image credit: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

Resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the release. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery<sup>[11]</sup>. These features are marked with yellow dots in **Figure 4**. If a feature of any type is subsequently verified in the field prior to publication of the report, the dot will be changed to red triangle if confirmed as a karst feature or deleted if not.

The field investigation was conducted by Steven Kesler of Southwest Geophysical Consulting on July16, 2024. It was determined that the subsidence was related to pseudokarst (soil piping) and not karst-related. These types of features can still be a trip and fall hazard to personnel and a tipping hazard to equipment and should be avoided if possible. Images available on request.

The imagery for the DDTL study was collected via aerial survey by Pat Lagodney of SWCA on July 21, 2024. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on July 28, 2024.

Prior to conducting the aerial karst surveys, a surface karst desk study was performed by Southwest Geophysical Consulting. The study was performed using satellite and aerial imagery from Google Earth Pro dated December 21, 2019 (please note features less than one meter in diameter are generally not visible); the Southwest Geophysical Cave and Karst Database dated December 31, 2023<sup>[11]</sup>; and the Seven Rivers, NM, 1:24,000 quad, 1954, USGS topographic map. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the 305-meter (1,000-foot) survey boundary<sup>[12,13]</sup>.

# 2.4 Description of Karst Features

No surface karst features are located within 200 feet (61 meters) of the spill delineation boundary<sup>[13, 12]</sup> (Figure 4).

The lack of surface karst features does not mean the area is not karstified. Please be aware that the area may contain buried karst features. Caution is advised while clearing brush and during trenching and excavation activities. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

Three small subsidence zones were found within the excavation (**Figure 5**). The subsidence is related to soil piping along trenches and previously established surface flow paths that were buried at some point. It was also noted that soil piping occurs near the northern edge of the South Seven Rivers arroyo, within the survey boundary.

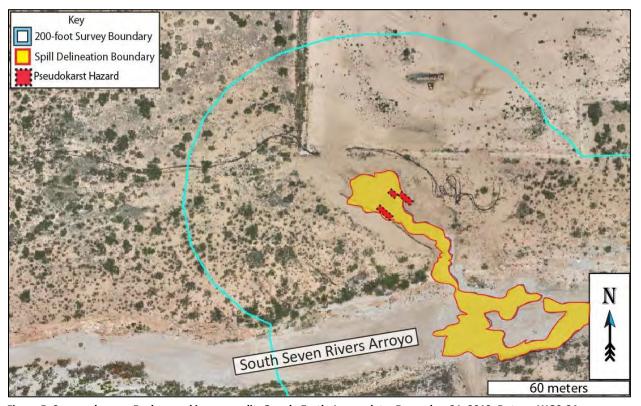


Figure 5: Survey closeup. Background image credit: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

# 3.0 RECOMMENDATIONS

# 3.1 Summary

- No surface karst features are located within 200 feet (61 meters) of the spill delineation boundary.
- Pseudokarst (soil piping) was identified within the aerial survey area, which may pose a
  hazard to equipment and personnel.
- Even though no surface karst features were found within the aerial karst survey boundary, this area has karst features nearby and may contain buried karst features.
- Caution should be exercised while clearing brush and during any excavation, trenching, drilling, or remediation operations.
- Employing a BLM-CFO approved karst monitor during excavation or remediation operations should be considered.

# 3.2 Best Practices

This area may be prone to rapid karst formation in the underlying stratigraphy and warrants careful planning and engineering to mitigate karst-forming processes that could be accelerated by poor planning and considerations. Proper practices following karst guidelines should be implemented during all phases of remediation. Mitigation measures for any karst features revealed during excavation or drilling shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Keep in mind that any flow of gypsum-undersaturated waters into a small crack or crevice can rapidly dissolve any underlying gypsum and cause failure of an impoundment or infrastructure within a matter of months to a few years.

Vigilance during remediation is paramount. If voids are encountered during excavation or drilling, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst vendor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports for the BLM-CFO should be submitted to:

# blm nm karst@blm.gov

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

# 4.0 REFERENCES

- Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).
- 2 Rybacki, K. (Bureau of Land Management Carlsbad Field Office, 2020).
- 3 Earthpoint. Earthpoint Tools for Google Earth, <a href="https://www.earthpoint.us/Townships.aspx">https://www.earthpoint.us/Townships.aspx</a> (2022).
- 4 W.R.C.C. National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469), 2010).
- Whitehead, W. & Flynn, C. *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology.* (Bureau of Land Management, Carlsbad Field Office, 2017).
- 6 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2016).
- 7 Scholle, P. A. Geologic Map of New Mexico. (2003).
- Silver, B. A. & Todd, R. G. Permian Cyclic Strata, Northern Midland and Delaware Basins, West Texas and Southeastern New Mexico. *The American Association of Petroleum Geologists Bulletin* **53**, 2223 2251 (1969).
- 9 Green, G. N. & Jones, G. E. *The Digital Geologic Map of New Mexico in ARC/INFO Format*, <a href="https://mrdata.usgs.gov/geology/state/state.php?state=NM">https://mrdata.usgs.gov/geology/state/state.php?state=NM</a> (1997).
- Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
- Decker, D. D. & Jorgensen, G. L. in *Southwest Geophysical Cave and Karst Database* (ed LLC Southwest Geophysical Consulting) (Albuquerque, NM, 2023).
- Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
- 13 Division, O. C. Title 19, Chapter 15, Part 29 (Oil Conservation Division, 2018).

# 5.0 GLOSSARY OF TERMS AND ABBREVIATIONS

BLM-CFO Bureau of Land Management - Carlsbad Field Office

caprock-collapse sinkhole Collapse of roof-spanning rock into a cave or void.

cave Natural opening at the surface large enough for a person to enter.

cover-collapse sinkhole Collapse of roof-spanning soil or clay ground cover into a subsurface

void.

GPS Global Positioning System

grike A solutionally enlarged, vertical, or sub-vertical joint or fracture.

(H) High confidence modifier for a PKF. This is typically reserved for a

feature that is definitely karst but has not been confirmed in the field.

HKOZ High Karst Occurrence Zone

InSAR Interferometric Synthetic Aperture Radar. A method by which radar

signals from satellites are processed to determine the amount and rate of subsidence of an area as well as whether the area is actively

subsiding.

(L) Low confidence modifier for a PKF. This is typically a feature that

cannot be ruled out as karst but is most likely NOT karst related. This

modifier may also be used for pseudokarst features.

LED Locally enclosed depression. A natural depression on the surface that

collects rainwater. Some contain swallets and/or caves, others do not.

LKOZ Low Karst Occurrence Zone

(M) Medium confidence modifier for PKF. This is an ambiguous feature

that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).

MKOZ Medium Karst Occurrence Zone
NCRC National Cave Rescue Commission

NKF Non-karst feature. Used for features originally identified as PKF that

have been subsequently identified in the field as non-karst related.

This term may also be used for pseudokarst features.

NMSLO New Mexico State Land Office

Pat Permian Artesia Group

Pdl Permian Dewey Lake Formation

PKF Possible karst feature. This term is reserved for features identified in

satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are

based on field experience.

PLSS Public Land Survey System

Pqg Permian Queen/Greyburg Formation

Pru Permian Rustler Formation

pseudokarst Karst-like features (sinkholes, conduits, voids etc.) that are not

formed by dissolution. These types of features include soil piping, lava

tubes, and some cover-collapse and suffosion sinkholes.

Psl Permian Salado Formation

Psr Permian Seven Rivers Formation

Pt Permian Tansill Formation
Py Permian Yates Formation
Qal Quaternary alluvium

Qe Quaternary eolian deposits

Qp Quaternary piedmont deposits

Qpl Quaternary playa lake deposits

RKF Recognized karst feature. This term is reserved for karst features that

have been physically verified in the field.

SKF Surface Karst Feature

SPAR Small Party Assisted Rescue

suffosion sinkhole Raveling of soil into a pre-existing void or fracture.

swallet A natural opening in the surface, too small for a person, that drains

water to an aquifer. Some are "open," meaning a void can be seen

below; some are "closed, "meaning they are full of sediment.

SWG Southwest Geophysical Consulting, LLC

UTM Universal Transverse Mercator (projected coordinates)

(V) Field verified modifier for a PKF. This indicates that the feature has

been visited by a qualified karst professional in the field and fully

identified

WGS World Geodetic System (geographic coordinates)

# **6.0 ATTESTATION**

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist Southwest Geophysical Consulting, LLC 5117 Fairfax Dr. NW Albuquerque, NM 87114 <a href="mailto:dave@swgeophys.com">dave@swgeophys.com</a> (505) 585-2550

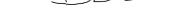
# **CERTIFICATE OF AUTHOR**

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of "qualified karst professional" set out in the ASTM Standard (currently in review). I meet the definition of "qualified professional" for the purposes of ASTM E-1527.
- I am responsible for the content, compilation, and editing of all sections of report number ETEC-007-20240716 entitled, "Cave and Karst Resource Inventory Report, Dagger Draw Trunkline Release, Eddy County, New Mexico." I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site or reviewed the aerial imagery on the date or dates mentioned in section 2.3 Description of Survey.

• I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, August 29, 2024.



David D. Decker PhD, CPG-12123



# Appendix G Regulatory Correspondence

From: OCDOnline@state.nm.us

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329736

Date: Wednesday, April 3, 2024 4:12:34 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/08/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe. NM 87505

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329738

**Date:** Wednesday, April 3, 2024 4:29:16 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/09/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329787

Date: Wednesday, April 3, 2024 4:42:50 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/10/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329790

Date: Wednesday, April 3, 2024 4:45:59 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/11/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329793

Date: Wednesday, April 3, 2024 4:47:29 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/12/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332851

**Date:** Friday, April 12, 2024 9:57:06 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/16/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: Connor Walker

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332854

**Date:** Friday, April 12, 2024 9:58:20 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/17/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Connor Walker</u>

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332857

**Date:** Friday, April 12, 2024 9:59:32 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/18/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Connor Walker</u>

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332859

**Date:** Friday, April 12, 2024 10:01:00 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/19/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Connor Walker</u>

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 335165

**Date:** Thursday, April 18, 2024 5:21:37 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/22/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Connor Walker</u>

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 335167

**Date:** Thursday, April 18, 2024 5:22:48 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

**When:** 04/23/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Connor Walker</u>

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 335168

**Date:** Thursday, April 18, 2024 5:23:50 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/24/2024 @ 08:00

**Where:** O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

From: Connor Walker
To: Ben Arguijo

Subject: FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 353748

Date: Monday, September 30, 2024 3:17:02 PM

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Tuesday, July 2, 2024 9:18 AM

**To:** Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID:

353748

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2409454303, for the following reasons:

 Remediation proposal denied. At this time your variance request to install a clay liner at 8' is rejected. Excavation must be to the maximum extent practicable and agreeable to the OCD. If Mewbourne is concerned about karst collapse you will need to utilize means available to investigate the existence of karst features such as a standard penetration test or other means as appropriate. Submit report to the OCD by 9/30/2024.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 353748.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Shelly Wells Environmental Specialist-A 505-469-7520 Shelly.Wells@emnrd.nm.gov

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

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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**

QUESTIONS

Action 388581

## **QUESTIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	388581
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites	
Incident ID (n#) nAPP2409454303	
Incident Name	NAPP2409454303 DAGGER DRAW TRUNK LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DAGGER DRAW TRUNK LINE
Date Release Discovered	03/22/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release  Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 113 BBL   Recovered: 85 BBL   Lost: 28 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 388581

QUESTI	IONS (continued)
Operator:  MEWBOURNE OIL CO	OGRID: 14744
P.O. Box 5270 Hobbs, NM 88241	Action Number: 388581
11000S, NWI 00241	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Connor Walker

Title: Senior Engineer

Date: 04/03/2024

Email: cwalker@mewbourne.com

I hereby agree and sign off to the above statement

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** 

QUESTIONS, Page 3

Action 388581

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	388581
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provide	ed to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamin	nation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	25200	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	180	
GRO+DRO (EPA SW-846 Method 8015M)	154	
BTEX (EPA SW-846 Method 8021B or 8260B)	8.3	
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	03/27/2024	
On what date will (or did) the final sampling or liner inspection occur	07/31/2024	
On what date will (or was) the remediation complete(d)	07/31/2024	
What is the estimated surface area (in square feet) that will be reclaimed	25540	
What is the estimated volume (in cubic yards) that will be reclaimed	3784	
What is the estimated surface area (in square feet) that will be remediated	25540	
What is the estimated volume (in cubic yards) that will be remediated	4940	
These estimated dates and measurements are recognized to be the best guess or calculation	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	ed in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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

<u>District IV</u> 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

QUESTIONS, Page 4

Action 388581

### **QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	388581
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Connor Walker Title: Senior Engineer

Email: cwalker@mewbourne.com Date: 09/30/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 388581

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	388581
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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** 

QUESTIONS, Page 6

Action 388581

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	388581
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	335168	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2024	
What was the (estimated) number of samples that were to be gathered	125	
What was the sampling surface area in square feet	16000	

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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 388581

## **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	388581
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with conditions: Excavation of TT1 and TT2 areas should be furthered to a depth of at least 12 feet, up to and including samples FL 73 and FL 74. Photographic documentation of proof of excavation depth should be submitted with closure report. Then excavation can be backfilled with non waste containing soil up to a depth of 8 feet and a two foot clay liner may then be installed on the floor of the Upper Excavation. Prior to commencement of any activities, provide OCD information as to where clay will be sourced from and provide compaction information of the sourced clay. Remediation closure report is due to the OCD by 1/30/2025.	11/1/2024