



Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: **Release Investigation and Closure Report**
Chaves 8" Steel Line
Unit M, Section 18, Township 15 South, Range 30 East
33.0102109°, -103.9687923°
Chaves County, New Mexico
Terracon Project No. KH237029

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Report for the site referenced above. The scope of services was developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of condensate and natural gas. The investigative response actions were taken in response to a natural gas and condensate release from a suspected corroded lateral line. The below sections detail Terracon's assessment and remediation actions in response to the noted release.

Action Items

Completed Actions

- 1) Initial site assessment and sampling events completed.
- 2) Maps and associated data for approval have been provided.
- 3) Soil samples collected were submitted to an approved analytical laboratory to determine levels of impact vertically and horizontally.
- 4) Excavation of the inferred release area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 5) Soil stockpiles were placed on plastic and bermed around the edges to reduce loss.
- 6) Confirmation composite soil samples were collected every 200 sq. ft.
- 7) Remedial activities were terminated when constituents of concern analytical results for confirmation samples indicated concentrations below the NMOCD Remediation Action Levels (RALs).
- 8) NMOCD was notified of 01/11/2024 final confirmation sampling.
- 9) Conditions to achieve closure have been met.

Frontier Field Services, LLC
Chaves 8" Steel Line
33.0102109°, -103.9687923°
NMOCD Reference # nAPP2306837567
Terracon Project # KH237029



Anticipated Actions

- 1) Approval by the NMOCD.
-

Terracon appreciates this opportunity to provide environmental services to Frontier Field Services, LLC (Durango). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in blue ink, appearing to read 'Travis Casey', is positioned above the printed name and title.

Travis Casey
Senior Staff Scientist
Carlsbad

A handwritten signature in blue ink, appearing to read 'Erin Loyd', is positioned above the printed name and title.

Erin Loyd, P.G. (TX)
Senior Principal
Office Manager – Lubbock

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Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Map
- Exhibit 3 – Initial Stockpile Sample Map
- Exhibit 4 – Confirmation Sample Map
- Exhibit 5 – NMOSE POD Location Map
- Exhibit 6 – Designated Wetland Map
- Exhibit 7 – Cave Karst Public UCP Map

Appendix B – Tables and Well Data & Sampling Notification

- Table 1 – Soil Sample Analytical Results

Appendix C – Photographic Log

Appendix D – Analytical Report and Chain of Custody

Appendix E – Initial Form C-141 and Final Form C-141

Appendix F – Terracon Standard of Care, Limitation, and Reliance

Frontier Field Services, LLC

Chaves 8" Steel Line

33.0102109°, -103.9687923°

NMOCD Reference # nAPP2306837567

Terracon Project # KH237029

**Section 1 – Incident Information**

The following table provides detailed information regarding the March 07, 2023, natural gas, and condensate release at the Chaves 8" Steel Line (Chaves 8") site in Chaves County, New Mexico:

Required Information	Site and Release information	
Responsible party	The pipeline is operated by Frontier Field Services, LLC.	
Local contact	Contact: Mr. Guadalupe Carrasco	P: (575)-725-0787 E: gcarrasco@durangomidstream.com
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Ms. Amber Groves on March 09, 2023. NMOCD Reference ID: nAPP2306837567	
Facility Description	Chaves 8" is in Chaves County, New Mexico. It is an area located within Unit M, Section 18, Township 15 South, Range 30 East, approximately 24.15 miles northeast of Artesia, New Mexico. The site is predominantly developed oil and gas Right of Way (ROW), Bureau of Land Management (BLM) owned native pastureland.	
Time of incident	March 07, 2023, discovered during routine maintenance.	
Discharge event	The natural gas pipeline leak was caused by external and internal corrosion. The Site is illustrated in Exhibits 1 and 2 of Appendix A	
Type of discharge	The documented natural gas release occurred in a ROW, BLM-owned, native pastureland area. Soils at the site are affected at the surface and beyond the depth of the pipeline.	
Quantity of spilled material	Total Fluids: 15 bbls of condensate	Natural Gas: 30.46 Mcf
Site characteristics	Relatively flat area surrounded by sand dunes with drainage following the natural ground surface; very gently sloping to the southwest.	
Immediate corrective actions	The leaking pipeline was closed in at the nearest isolation valve, blown down, and clamped. A backhoe was utilized to excavate impacted soils around the line to discover the source of the release.	

Frontier Field Services, LLC

Chaves 8" Steel Line

33.0102109°, -103.9687923°

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**Section 2 – General Site Characteristics**

Physical Characteristic	Site Ranking Characteristics
Groundwater NMOSE POD Location Map – (Exhibit 5 in Appendix A)	POD Number: (L-14514 POD 1) <u>Depth to Groundwater:</u> 77 ft. bgs <u>Distance to Well:</u> 2.1 miles to the southeast <u>Date Drilled:</u> August 09, 2018 <u>Groundwater Quality:</u> Groundwater quality at the site is predominately used for agricultural reasons.
Surface Water NM Wetland Map – (Exhibit 6 in Appendix A)	Freshwater Pond (unnamed), is approximately 2 miles to the east.
100-Year Flood Plain	This site is located outside the 100-year flood plain of the Pecos River.
Soil Characteristics	Soils at the site are mapped as Faskin-Roswell Complex Sand series soils, 0 to 3 percent slopes, well-drained, 8 to 15 inches single-grained; many fine roots; very porous; neutral; gradual smooth boundary. (15 to 23 inches thick). The formation is categorized with a medium runoff classification.
Karst Characterization Cave Karst Public UCP Map – (Exhibit 7 in Appendix A)	Terracon evaluated data from the NMOCD Public UCP Site, Karst map designations in reference to the site location. The site appears to be within a low-level Karst risk area. Based on on-site observations within the extent of the release margins, the potential for Karst formations in this specific area are of low potential, as illustrated in Exhibit 6. Restrictive features were not encountered from surface to 96 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 96 inches bgs.

Frontier Field Services, LLC

Chaves 8" Steel Line

33.0102109°, -103.9687923°

NMOCD Reference # nAPP2306837567

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Section 3 – Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018*, and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Chaves 8".

Section 3.1 – Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within the New Mexico Administration Code (NMAC) *Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use)* for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Section 3.2 – Remediation Levels (> 4 ft. bgs)

Based on the site-specific characteristics, and the inferred depth to groundwater, the applicable NMOCD remediation levels for Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Frontier Field Services, LLC

Chaves 8" Steel Line

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NMOCD Reference # nAPP2306837567

Terracon Project # KH237029

**Section 4 – Remediation Activities**

On June 12, 2023, Terracon personnel mobilized to the site to perform investigation activities. The exhumed soil stockpile was observed south of the excavation and the open excavation was measured to be approximately 1,600 square feet. Additionally, four composite soil samples were collected from the stockpile to evaluate the concentrations of constituents of concern in support of developing a remedial response.

From July 06, 2023, through July 10, 2023, Terracon mobilized to the site to meet M & M Excavation Inc. (MMX) personnel to perform soil remediation activities. Areas exhibiting visual impact were excavated to variable depths of extending to approximately 8 feet bgs.

Approximately 460 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts ceased based on the results of composite soil sample laboratory analysis. Results are detailed in sections five and six. Excavated materials were disposed of at Lea Land Landfill.

Section 5 - Remediation Confirmation Assessment

A total of 45 confirmation composite soil samples (N-SW, S-SW, E-SW, W-SW, and FS-01 through FS-06) were collected from the excavation from July 6-10, 2023, and January 11, 2024. Samples were placed in laboratory-provided sample containers, preserved with ice, and transported under a chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX, TPH, and chlorides.

Section 6 – Analytical Results

During confirmation sampling efforts 26 composite samples were collected from the floor and walls of the excavation. Ten of the samples were collected from the reclamation depth of soils from surface to 4 ft. bgs, and 16 samples were collected from the remediation depth of soils greater than 4 ft. bgs.

All twenty-six samples collected exhibited concentrations of TPH below the laboratory SDLs. The magnitude of TPH concentrations were below the NMOCD RAL closure criteria.

One of the twenty-six soil samples collected within the reclamation depth exhibited concentrations above the laboratory SDLs resulting concentrations of chloride were below the NMOCD RAL closure criteria of 600 mg/kg and ranged from <16.0 mg/kg in S-SW 02 (surface to 0-4 ft bgs) to 16.0 mg/kg in soil sample S-SW01 (4-6 ft bgs).

A summary of BTEX, chloride, and TPH concentrations of all collected soil samples is attached as Table 1.

Frontier Field Services, LLC

Chaves 8" Steel Line

33.0102109°, -103.9687923°

NMOCD Reference # nAPP2306837567

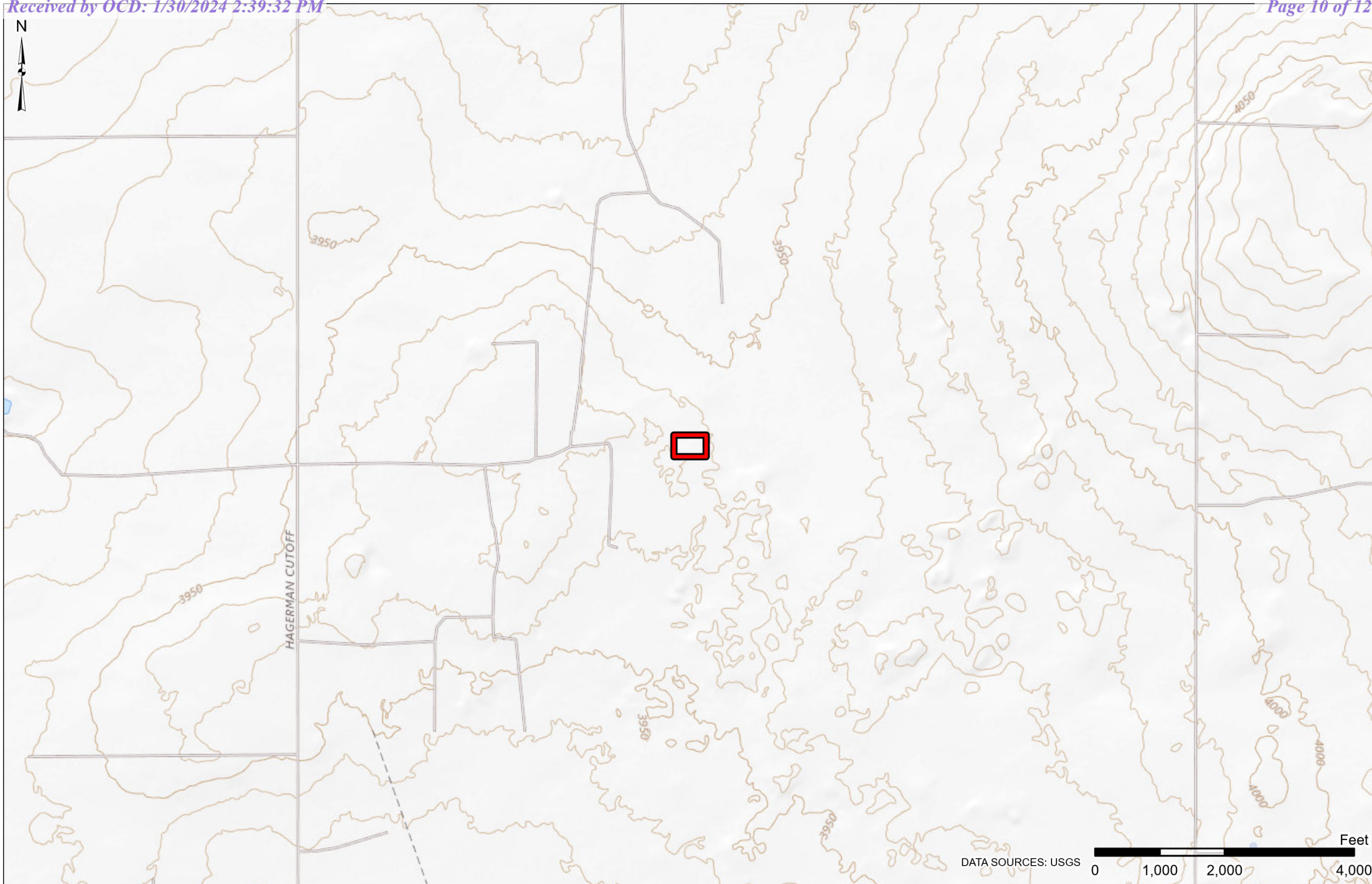
Terracon Project # KH237029



Section 7 – Conclusion and Closure Request

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon on behalf of Frontier Field Services respectfully requests closure of the incident nAPP2306837567.

APPENDIX A – EXHIBITS



 Site Location

Project No.:
KH237029
Date:
Jul 18 2023
Drawn By:
JWL
Reviewed By:
TLC



4518 W Pierce St
Carlsbad, NM

PH. 806-300-0140

terracon.com

Topographic Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico

Exhibit

1




DATA SOURCES: Bing

0 20 40 80 Feet



 Excavation Boundary

Project No.:	KH237029
Date:	Jul 18 2023
Drawn By:	JWL
Reviewed By:	TLC



4518 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

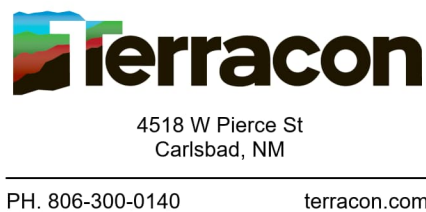
Site Map
Chaves 8" Steel Line Durango 33.0102109° -103.9687923° Chaves County, New Mexico

Exhibit
2



- Stock Pile
- Stockpile Sample Location

Project No.:	KH237029
Date:	Jul 18 2023
Drawn By:	JWL
Reviewed By:	TLC

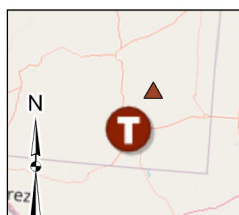
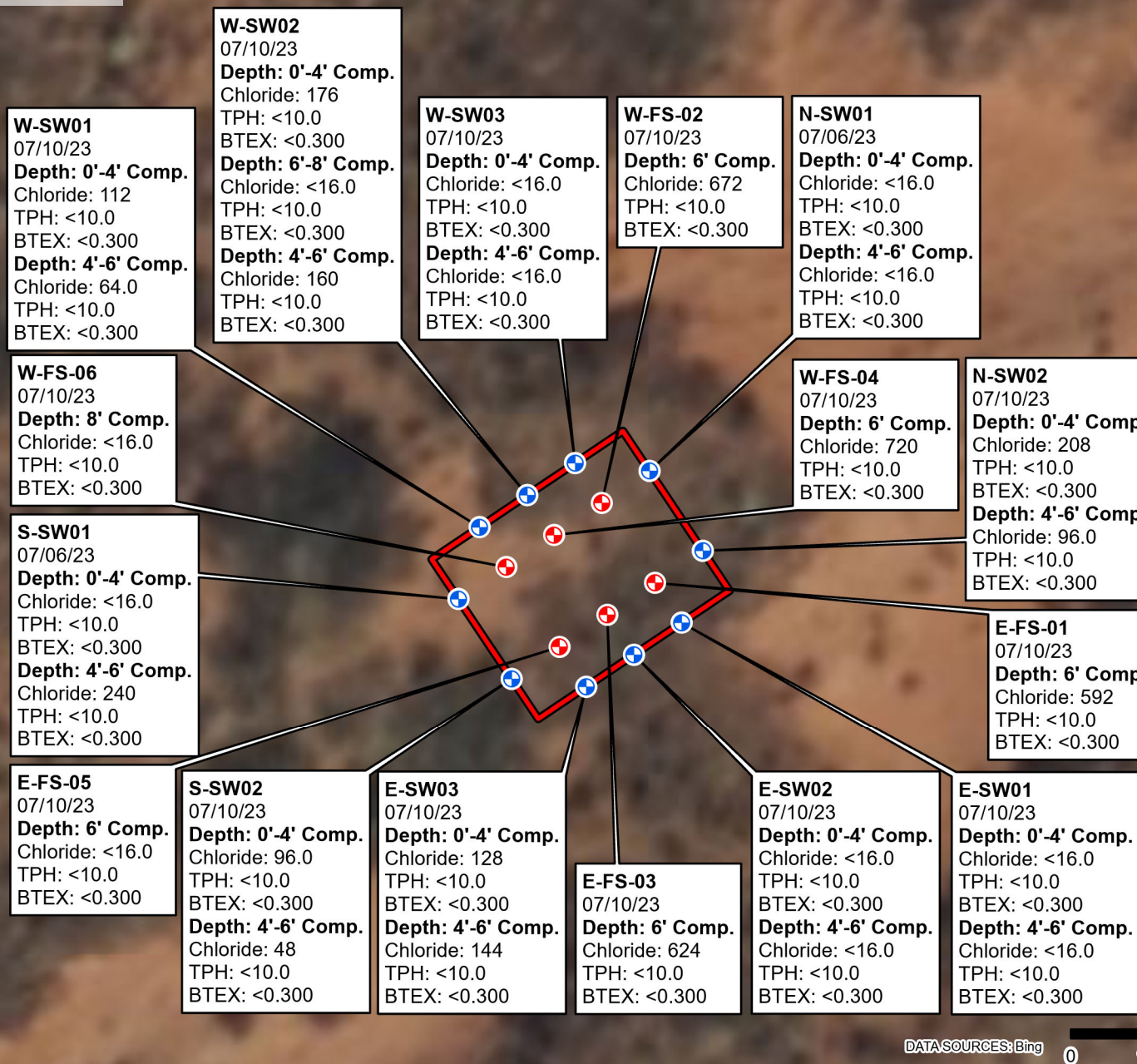


Initial Stock Pile Sample Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico

Exhibit

3



Excavation Boundary

Sample Location

Floor

Wall

Project No.:
KH237029Date:
Jul 18 2023Drawn By:
JWLReviewed By:
TLC4518 W Pierce St
Carlsbad, NM

PH. 806-300-0140

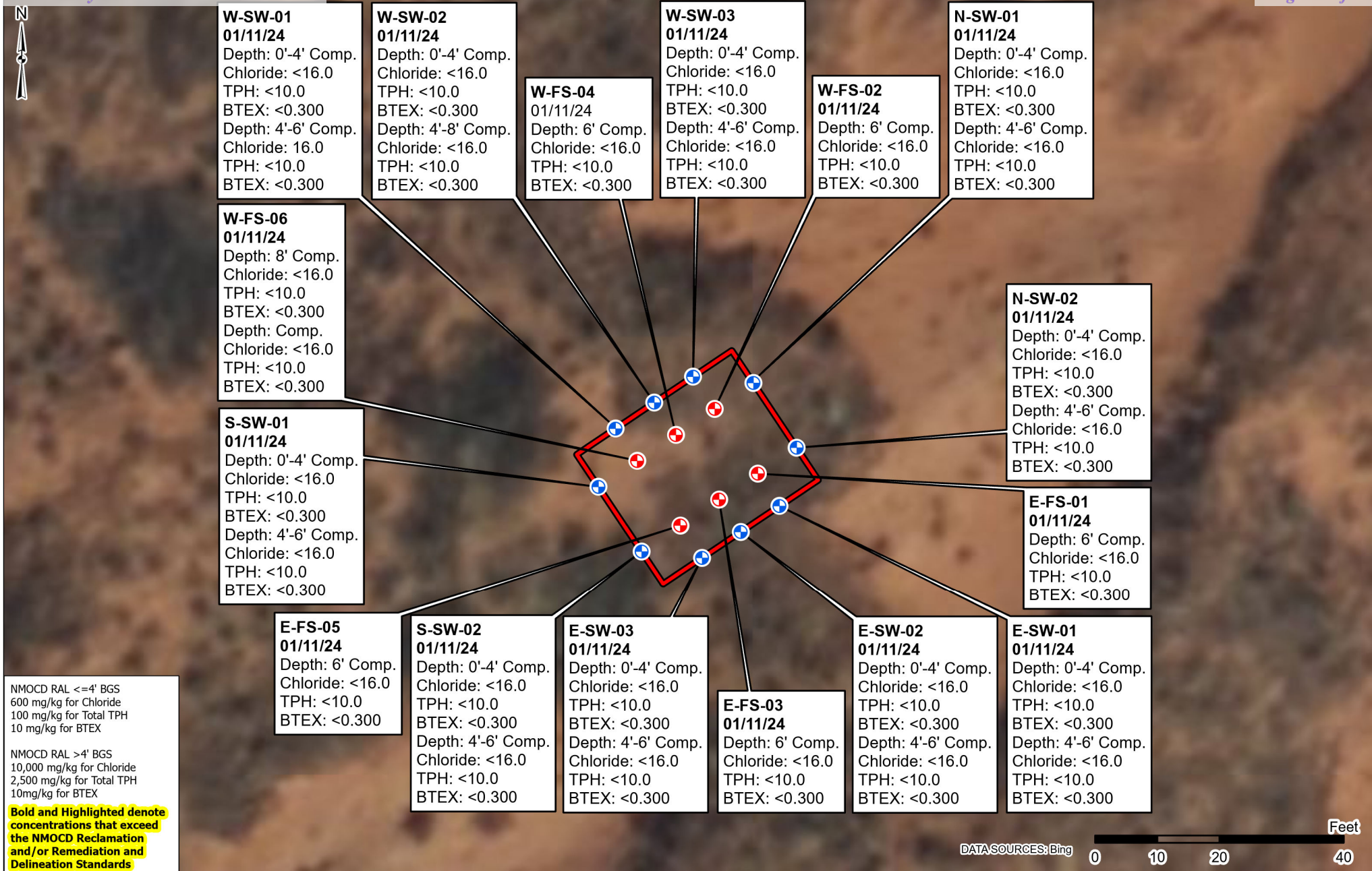
terracon.com

Confirmation Sample Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico

Exhibit

4



Excavation Boundary

Sample Location

● Floor● WallProject No.:
KH237029Date:
Jan 22 2024Drawn By:
JWLReviewed By:
TLC4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140

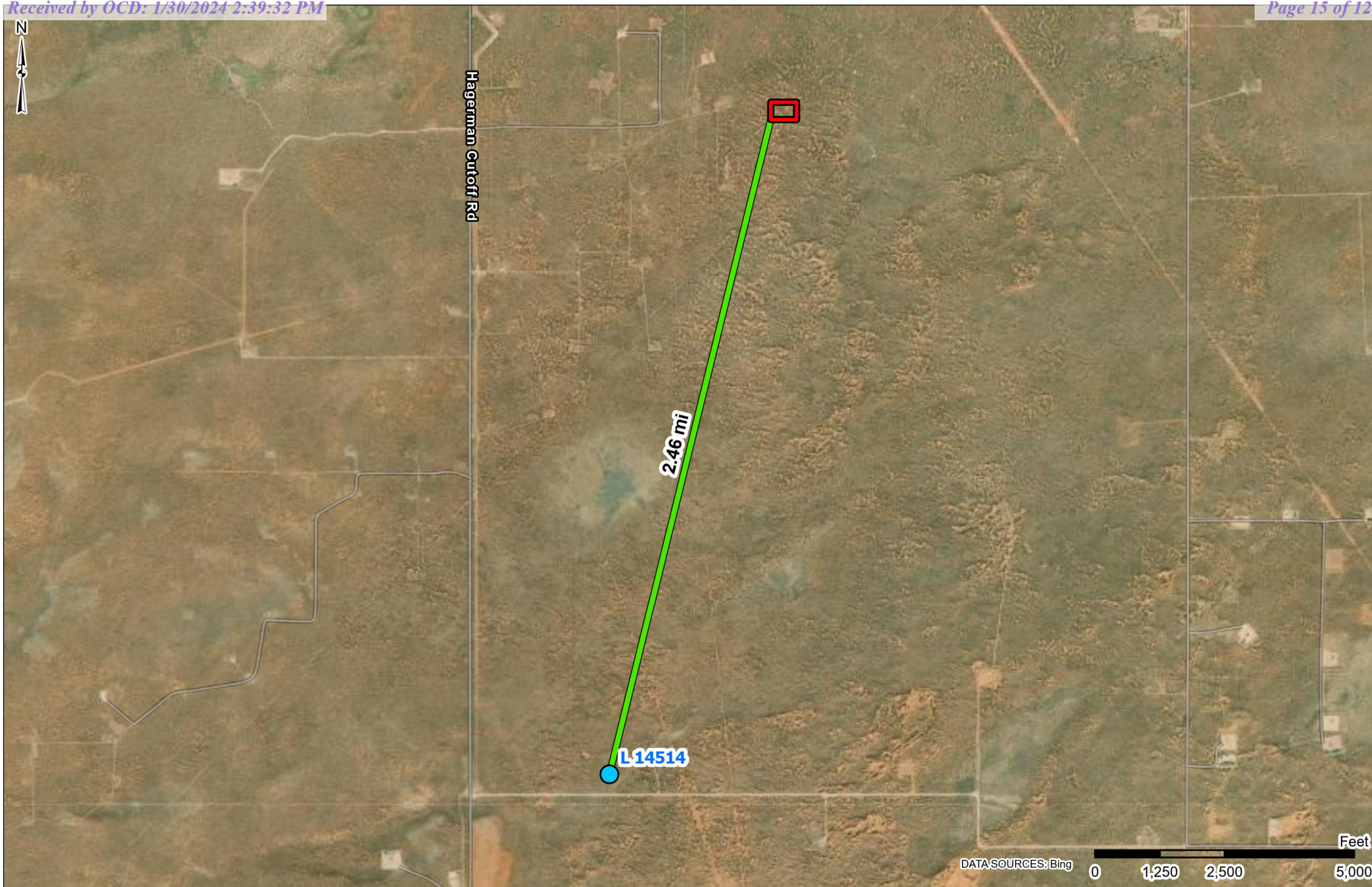
terracon.com

Confirmation Sample Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico

Exhibit

4



- Site Location
- NMOSE POD Location

Project No.:
KH237029

Date:
Jul 18 2023

Drawn By:
JWL

Reviewed By:
TLC

Terracon

4518 W Pierce St
Carlsbad, NM

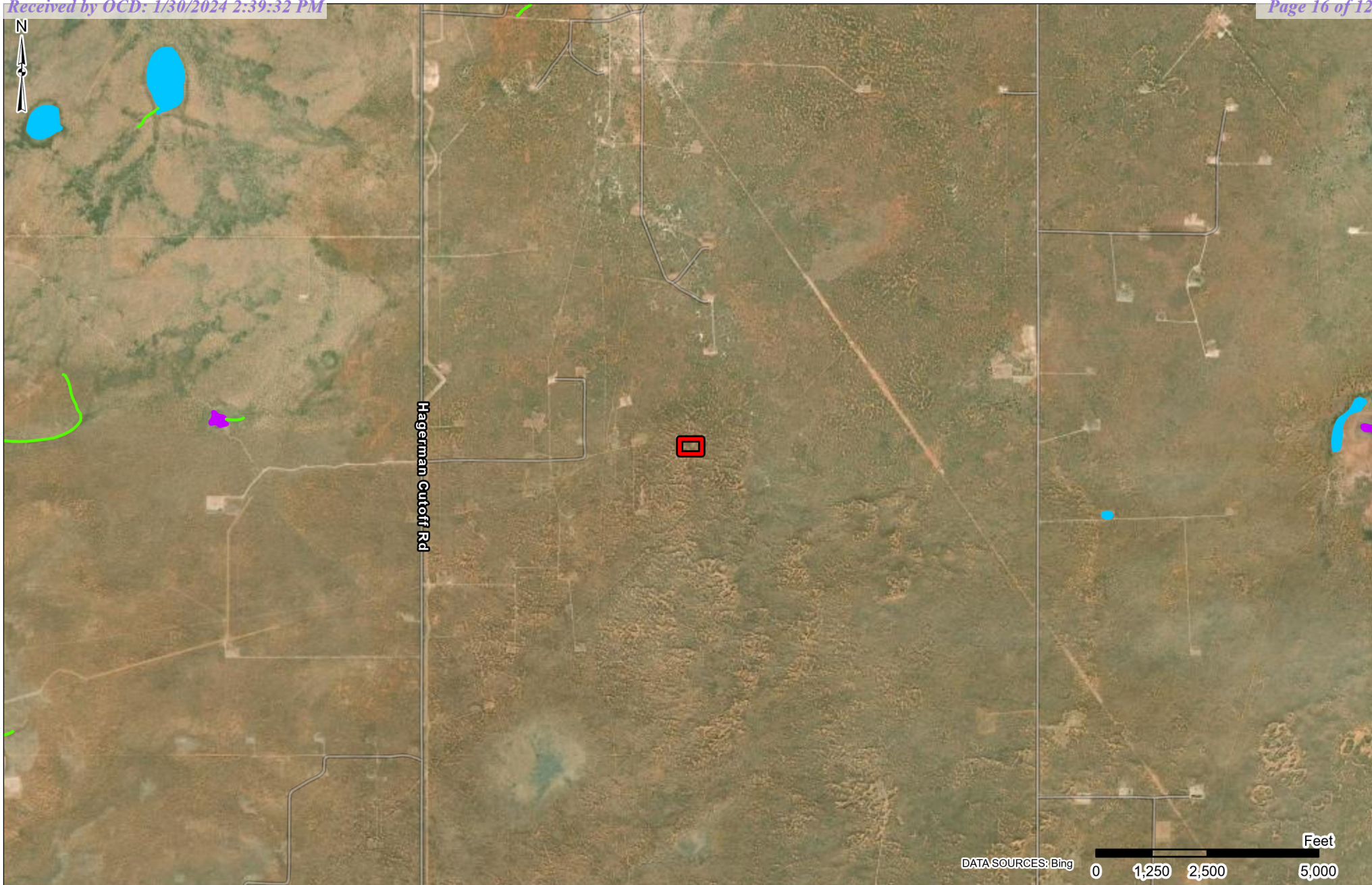
PH. 806-300-0140 terracon.com

NMOSE POD Location Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico

Exhibit

5



- Site Location
- Designated Wetland
- Freshwater Emergent Wetland
- Freshwater Pond
- Riverine

Project No.: KH237029
Date: Jul 18 2023
Drawn By: JWL
Reviewed By: TLC

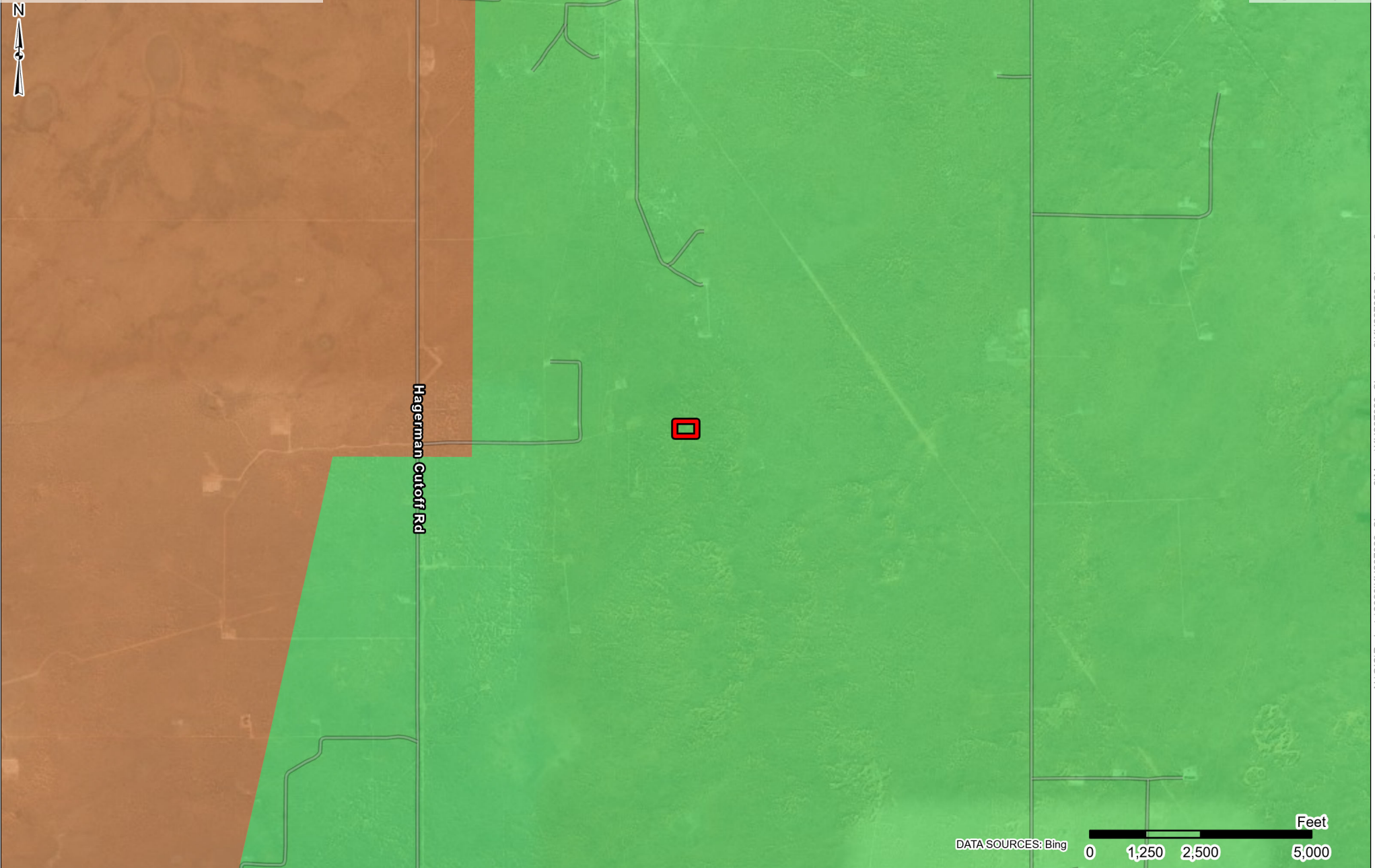
Terracon
4518 W Pierce St
Carlsbad, NM
PH. 806-300-0140 terracon.com

Designated Wetland Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico


Exhibit

6



- Site Location
- Karst Potential
 - Low
 - Medium
 - High

Project No.: KH237029
Date: Jul 18 2023
Drawn By: JWL
Reviewed By: TLC



4518 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

Chaves 8" Steel Line
Durango
33.0102109° -103.9687923°
Chaves County, New Mexico

Exhibit

7

APPENDIX B – TABLES AND WELL DATA

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Chaves 8" Steel Line Terracon Project No. KH237029									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M)			
						(mg/kg)			
						GRO	DRO	EXT DRO	
Initial Release Margin Samples									
NP 01	0.5'	Comp	06/12/23	Benzene -	<0.050	1,090	104	12,300	3,100
				Total BTEX -	2.14				
NP 02	0.5'	Comp	06/12/23	Benzene -	<0.050	1,040	105	18,900	5,680
				Total BTEX -	2.02				
SP 01	0.5'	Comp	06/12/23	Benzene -	<0.050	1,100	188	20,600	6,060
				Total BTEX -	7.29				
SP 02	0.5'	Comp	06/12/23	Benzene -	<0.050	3,160	220	16,100	4,360
				Total BTEX -	3.32				
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft.				Benzene -	10	600	100		
				Total BTEX -	50				
NMOCD Remediation and Delineation Standards ⁵				Benzene -	10	10,000	1,000		
				Total BTEX -	50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/201

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Chaves 8" Steel Line Terracon Project No. KH237029									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)		Chloride (mg/kg)	TPH (8015M)		
							(mg/kg)		
							GRO	DRO	EXT DRO
Confirmation Samples									
FS 01 E	6'	Comp	07/06/23	Benzene -	<0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
FS 02 W	6'	Comp	07/06/23	Benzene -	<0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW01	0-4'	Comp	07/06/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW01	4-6'	Comp	07/06/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW01	0-4'	Comp	07/06/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW01	4-6'	Comp	07/06/23	Benzene -	<0.050	240	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW01	0-4'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW01	4-6'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW02	0-4'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW02	4-6'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW03	0-4'	Comp	07/10/23	Benzene -	<0.050	128	<10.0	26.6	12.8
				Total BTEX -	<0.300				
E-SW03	4-6'	Comp	07/10/23	Benzene -	<0.050	144	<10.0	26.3	16.6
				Total BTEX -	<0.300				
W-SW01	0-4'	Comp	07/10/23	Benzene -	<0.050	112	<10.0	22.8	10.1
				Total BTEX -	<0.300				
W-SW01	4-6'	Comp	07/10/23	Benzene -	<0.050	64.0	<10.0	24.5	10.0
				Total BTEX -	<0.300				
W-SW02	0-4'	Comp	07/10/23	Benzene -	<0.050	176	<10.0	29.5	13.4
				Total BTEX -	<0.300				
W-SW02	4-6'	Comp	07/10/23	Benzene -	<0.050	160	<10.0	24.7	13.0
				Total BTEX -	<0.300				
W-SW02	6-8'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-FS 01	6'	Comp	07/10/23	Benzene -	<0.050	592	<10.0	14.0	<10.0
				Total BTEX -	<0.300				
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft.				Benzene -	10	600	100		
				Total BTEX -	50				
NMOCD Remediation and Delineation Standards ⁵				Benzene -	10	10,000	1,000		
				Total BTEX -	50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/201

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Chaves 8" Steel Line Terracon Project No. KH237029									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)		Chloride (mg/kg)	TPH (8015M)		
							(mg/kg)		
							GRO	DRO	EXT DRO
Confirmation Samples									
E-FS 03	6'	Comp	07/10/23	Benzene -	<0.050	624	<10.0	13.9	<10.0
				Total BTEX -	<0.300				
E-FS 05	6'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	10.0
				Total BTEX -	<0.300				
W-FS 02	6'	Comp	07/10/23	Benzene -	<0.050	672	<10.0	12.2	<10.0
				Total BTEX -	<0.300				
W-FS 04	6'	Comp	07/10/23	Benzene -	<0.050	720	<10.0	10.9	<10.0
				Total BTEX -	<0.300				
W-FS 06	8'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW 03	0-4'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW 03	4-6'	Comp	07/10/23	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW 02	0-4'	Comp	07/10/23	Benzene -	<0.050	208	<10.0	24.9	12.0
				Total BTEX -	<0.300				
N-SW 02	4-6'	Comp	07/10/23	Benzene -	<0.050	96.0	<10.0	26.9	10.9
				Total BTEX -	<0.300				
S-SW 02	0-4'	Comp	07/10/23	Benzene -	<0.050	96.0	<10.0	16.7	<10.0
				Total BTEX -	<0.300				
S-SW 02	4-6'	Comp	07/10/23	Benzene -	<0.050	48	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft.				Benzene -	10	600	100		
				Total BTEX -	50				
NMOCD Remediation and Delineation Standards ⁵				Benzene -	10	10,000	1,000		
				Total BTEX -	50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

ed above the indicated laboratory SDL

= Not Analyzed

= Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Chaves 8" Steel Line Terracon Project No. KH237029									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)		Chloride (mg/kg)	TPH (8015M)		
							(mg/kg)		
GRODROEXT DRO									
Confirmation Samples									
W-SW 01	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW 01	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	10.0
				Total BTEX -	<0.300				
W-SW 02	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW 02	4-8'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW 03	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW 03	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW 01	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW 01	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW 02	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW 02	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW 01	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW 01	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW 02	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	10.0
				Total BTEX -	<0.300				
E-SW 02	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW 03	0-4	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-SW 03	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW 02	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW 02	4-6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW 01	0-4'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW 01	4-6'	Comp	01/11/24	Benzene -	<0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-FS 06	8'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-FS 02	6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-FS 04	6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-FS 01	6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-FS 03	6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
E-FS 05	6'	Comp	01/11/24	Benzene -	<0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft.)				Benzene -	10	600	100		
				Total BTEX -	50				
NMOCD Remediation and Delineation Standards ⁵				Benzene -	10	10,000	1,000		
				Total BTEX -	50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

ed above the indicated laboratory SDL

= Not Analyzed


= Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
20765	L 14514 POD1	2	2	1	32	15S	36E	595494	3649622			
x												
Driller License:		1611		Driller Company:			GOERTZEN DRILLING					
Driller Name:		JOHN GOERTZEN										
Drill Start Date:		08/09/2018		Drill Finish Date:			08/10/2018		Plug Date:			
Log File Date:		08/17/2018		PCW Rev Date:						Source: Shallow		
Pump Type:					Pipe Discharge Size:						Estimated Yield:	
Casing Size:		5.00		Depth Well:			208 feet		Depth Water:		77 feet	
x												
Water Bearing Stratifications:				Top	Bottom	Description						
				104	125	Sandstone/Gravel/Conglomerate						
				125	150	Sandstone/Gravel/Conglomerate						
				150	160	Sandstone/Gravel/Conglomerate						
				162	175	Other/Unknown						
				175	185	Sandstone/Gravel/Conglomerate						
				185	202	Sandstone/Gravel/Conglomerate						
				202	205	Other/Unknown						
				205	208	Other/Unknown						
x												
Casing Perforations:				Top	Bottom							
				0	208							
x												

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

APPENDIX C – PHOTOGRAPHIC LOG

Chaves 8" Steel Line ■ Chaves County, New Mexico
July 18, 2023 ■ Terracon Project No. KH237029



PHOTO 1: View of excavation area, facing south



PHOTO 2: View of excavation area, facing west

Responsive ■ Resourceful ■ Reliable

Chaves 8" Steel Line ■ Chaves County, New Mexico
July 18, 2023 ■ Terracon Project No. KH237029



PHOTO 3: View of excavation area, facing east



PHOTO 4: View of excavation area, facing north

Responsive ■ Resourceful ■ Reliable

Chaves 8" Steel Line ■ Chaves County, New Mexico
July 18, 2023 ■ Terracon Project No. KH237029



07.06.2023 03:33 PM
33.01018, -103.96886
Roswell, NMA

PHOTO 5: View of excavation area, facing north



PHOTO 6: View of area around the excavation, facing south

Responsive ■ Resourceful ■ Reliable

Chaves 8" Steel Line ■ Chaves County, New Mexico
July 18, 2023 ■ Terracon Project No. KH237029



PHOTO 7: View of excavation area, facing east



PHOTO 8: View of surface scrape, facing southwest

Responsive ■ Resourceful ■ Reliable

Chaves 8" Steel Line ■ Chaves County, New Mexico
July 18, 2023 ■ Terracon Project No. KH237029

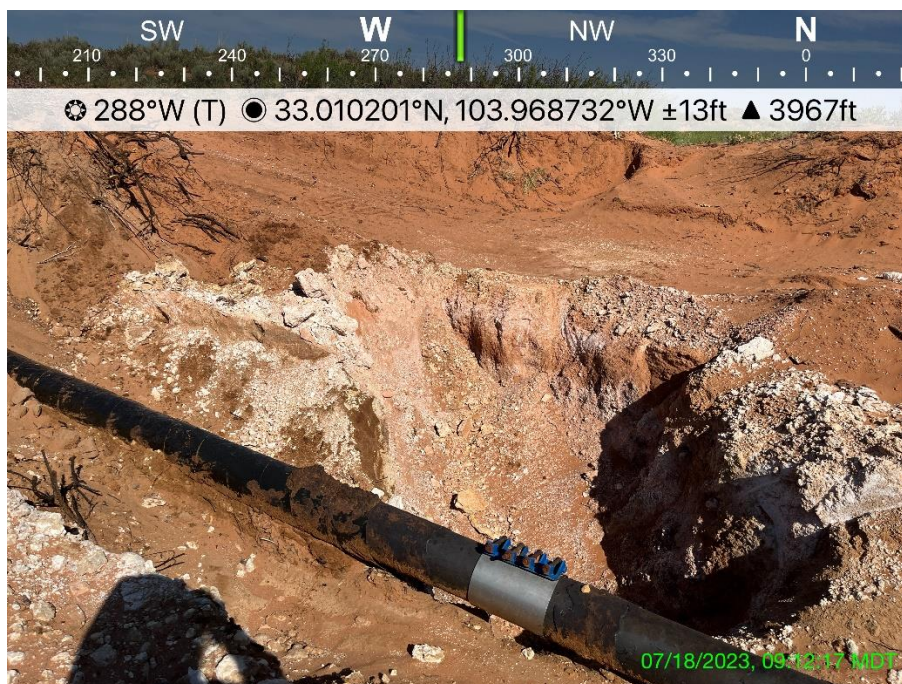


PHOTO 9: View of excavation area, facing west

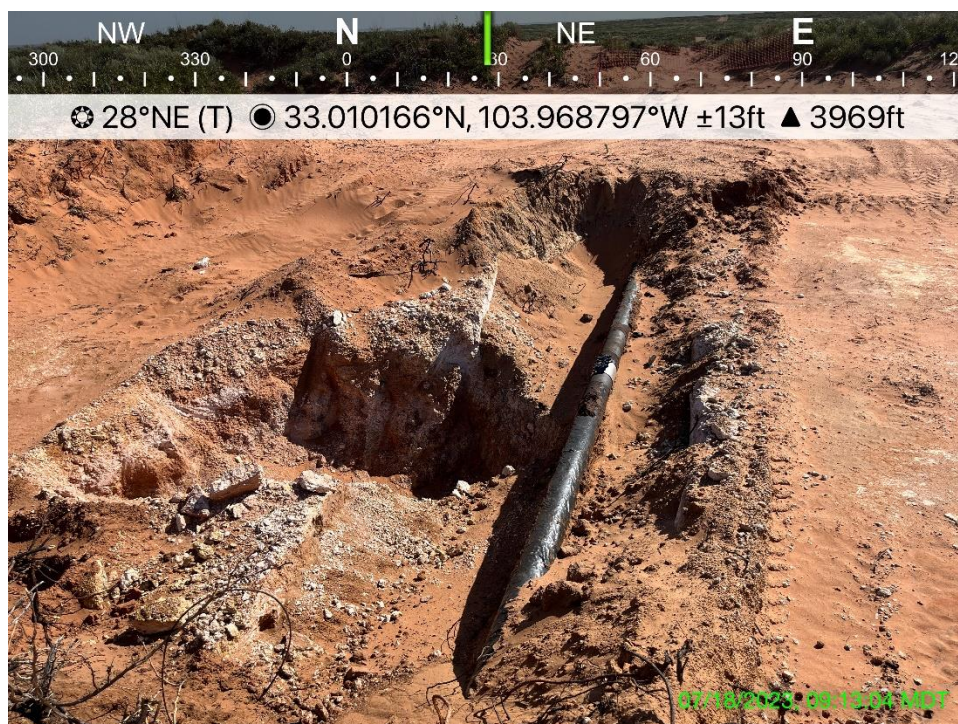


PHOTO 10: View of surface scrape, facing north-northeast

Responsive ■ Resourceful ■ Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 15, 2023

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: CHAVES 8"

Enclosed are the results of analyses for samples received by the laboratory on 06/12/23 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NP 01 (H233000-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	0.246	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	0.762	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	1.13	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTX	2.14	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	104	100	06/13/2023	ND	175	87.6	200	0.476		
DRO >C10-C28*	12300	100	06/13/2023	ND	162	80.9	200	0.0568		
EXT DRO >C28-C36	3100	100	06/13/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 381 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NP 02 (H233000-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	0.170	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	0.480	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	1.37	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	2.02	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	105	100	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	18900	100	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	5680	100	06/13/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 585 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 01 (H233000-03)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	0.973	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	1.81	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	4.51	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTX	7.29	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	188	100	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	20600	100	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	6060	100	06/13/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 652 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 02 (H233000-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	0.304	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	1.08	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	1.93	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	3.32	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	220	100	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	16100	100	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	4360	100	06/13/2023	ND					

Surrogate: 1-Chlorooctane 141 % 48.2-134

Surrogate: 1-Chlorooctadecane 477 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 11, 2023

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: CHAVES 8"

Enclosed are the results of analyses for samples received by the laboratory on 07/10/23 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 E 6' (H233474-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/10/2023	ND	416	104	400	0.00		

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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 W 6' (H233474-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTEx	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/10/2023	ND	416	104	400	0.00	

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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N - SW 0-4 (H233474-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/10/2023	ND	416	104	400	0.00		

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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N - SW 4-6 (H233474-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/10/2023	ND	416	104	400	0.00		

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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - SW 0-4 (H233474-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10		
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/10/2023	ND	416	104	400	0.00		

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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - SW 4-6 (H233474-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/10/2023	ND	416	104	400	0.00	

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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

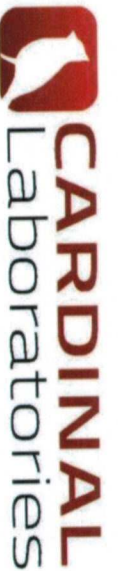
Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Terracon

Project Manager: Joseph Guesnier

Address: 4518 W. Perice Street

City: Carlsbad

State: NM Zip: 88220

Phone #: 8065077057

Fax #:

Project #: KH2337029

Project Owner:

Project Name: Chaves E^{II}

City: State: Zip:

Project Location:

Phone #:

Sampler Name: Travis Casey

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H233424

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride (EPA Method 4500)

TPH Extended 8015

BTEX (EPA Method 8021B)

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Relinquished By:

Date: 7-10-23

Received By:

Relinquished By:

Date:

Received By:

REMARKS:

joesph.guesnier@terracon.com; travis.casey@terracon.com;
austin.worley@terracon.com; michael.adams@terracon.com

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition
☒ Cool ☐ Intact
☒ Yes ☐ No

CHECKED BY:
(Initials)

Turnaround Time:

Standard

Cool Intact
☐ Yes ☐ No

Sample Condition
Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

☐ Yes ☐ No

Thermometer ID #443

Correction Factor .006

☐ Yes ☐ No

Corrected Temp. °C

FORM-000-R-3-2 7/10/17

Cardinal cannot accept verbal changes. Please email changes to celestine.kee@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 13, 2023

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: CHAVES 8"

Enclosed are the results of analyses for samples received by the laboratory on 07/11/23 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW 01 0-4' (H233510-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 140 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW 01 4-6' (H233510-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW 02 0-4' (H233510-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW 02 4-6' (H233510-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW 03 0-4' (H233510-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	26.6	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	12.8	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW 03 4-6' (H233510-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	26.3	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	16.6	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 01 0-4' (H233510-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	22.8	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	10.1	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 01 4-6' (H233510-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	24.5	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 02 0-4' (H233510-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/12/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	29.5	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	13.4	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 138 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 02 4-6' (H233510-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	24.7	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	13.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 02 6-8' (H233510-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - FS 01 6' (H233510-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	14.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - FS 03 6' (H233510-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	13.9	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - FS 05 6' (H233510-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - FS 02 6' (H233510-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	12.2	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - FS 04 6' (H233510-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	10.9	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - FS 06 6' (H233510-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 03 0-4' (H233510-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	ND	432	108	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - SW 03 4-6' (H233510-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34		
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2023	ND	432	108	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N - SW 02 0-4' (H233510-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.94	96.8	2.00	4.34	
Toluene*	<0.050	0.050	07/12/2023	ND	1.92	96.0	2.00	4.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.90	95.0	2.00	5.26	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.77	96.2	6.00	4.82	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/12/2023	ND	432	108	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	07/12/2023	ND	208	104	200	14.7	
DRO >C10-C28*	24.9	10.0	07/12/2023	ND	212	106	200	16.5	
EXT DRO >C28-C36	12.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N - SW 02 4-6' (H233510-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.70	
Toluene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.04	102	2.00	7.43	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.32	105	6.00	6.48	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/12/2023	ND	432	108	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	26.9	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	10.9	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - SW 02 0-4' (H233510-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.70	
Toluene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.98	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.04	102	2.00	7.43	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.32	105	6.00	6.48	
Total BTEx	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/12/2023	ND	432	108	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	16.7	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/11/2023
 Reported: 07/13/2023
 Project Name: CHAVES 8"
 Project Number: KH237029
 Project Location: DURANGO - CHAVES

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - SW 02 4-6' (H233510-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.70		
Toluene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.98		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.04	102	2.00	7.43		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.32	105	6.00	6.48		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/12/2023	ND	432	108	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager




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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon

Project Manager: Joseph Guesnier

Address: 4518 W. Perice Street

City: Carlsbad

Phone #: 8065077057

Project #: KH237029

Project Name: Chavez 8'

Project Location:

Sampler Name: Travis Casey

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			Chloride (EPA Method 4500)	TPH Extended 8015	BTEX (EPA Method 8021B)			
1	E-SW01	0-4'	C	1								X	X	X			
2	E-SW01	4-6'															
3	E-SW02	0-4'															
4	E-SW02	4-6'															
5	E-SW03	0-4'															
6	E-SW03	4-6'															
7	E-SW01	0-4'															
8	E-SW01	4-6'															
9	E-SW02	0-4'															
10	E-SW02	4-6'															

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Relinquished By:

Date: 1/11/23

Received By:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 1/11/23

Received By:

REMARKS: joesph.guesnier@terracon.com; travis.casey@terracon.com; austlin.worley@terracon.com; michael.adams@terracon.com

Delivered By: (Circle One)

Observed Temp.: 01

Sample Condition

CHECKED BY: (Initials)

Turnaround Time: Standard

Thermometer ID #11344018h1

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp.: C

Cool Intact

Yes

Correction Factor: 0.00

Yes

Observed Temp.: C

Corrected Temp.: C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon						P.O. #:						ANALYSIS REQUEST											
Project Manager: Joseph Guesnier																							
Address: 4518 W. Perice Street																							
City: Carlsbad						State: NM Zip: 88220						Company: Durango											
Phone #: 8065077057						Fax #:						Attn: Lepe Callisto											
Project #: KH237029						Project Owner: Durango																	
Project Name: Chaves 8"						City:																	
Project Location:						State: Zip:																	
Sampler Name: Travis Casey						Phone #:																	
FOR LAB USE ONLY						Fax #:																	
Lab I.D.						Sample I.D.																	
						(G)RAB OR (C)OMP.																	
						# CONTAINERS																	
						GROUNDWATER																	
						WASTEWATER																	
						SOIL																	
						OIL																	
						SLUDGE																	
						OTHER :																	
						ACID/BASE:																	
						ICE / COOL																	
						OTHER :																	
						DATE						TIME											
H233510						11						1142											
W-SW02 C-B'						C						7-10											
12 E-FS01 C'						X						0936											
13 E-TS03 C'												0938											
14 E-FS05 C'												1150											
15 W-FS02 C'												1050											
16 W-FS04 C'												1052											
17 W-FS06 C'												1148											
18 W-SW03 0-4'												1144											
19 W-SW03 4-6'												1146											
20 W-SW02 0-4'												1130											
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Relinquished By: [Signature]												Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:											
Date: 7-11-23												All Results are emailed. Please provide Email address:											
Time: 1035																							
Date: 7-11-23																							
Received By: [Signature]																							
REMARKS: Joseph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com;																							
Delivered By: (Circle One)																							
Observed Temp.: °C 0.1																							
Corrected Temp.: °C																							
Sampler - UPS - Bus - Other:																							
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							
CHECKED BY: (Initials) J.C.																							
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>																							
Thermometer ID #11440 4841																							
Correction Factor 0.0°C																							
Observed Temp.: °C																							
Corrected Temp.: °C																							
† Cardinal cannot accept verbal changes. Please email changes to celsey.keene@cardinal-lab.com																							



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Terracon

Project Manager: Joseph Guesnier

Address: 4518 W. Perice Street

City: Carlsbad

Phone #: 8065077057

Project #: KH231029

Project Name: Cheaves 8"

Project Location:

Sampler Name: Travis Casey

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H2335710
21 N-SW02 4-6'
22 S-SW02 0-4'
23 S-SW02 4-6'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride (EPA Method4500)

TPH Extended 8015

BTEX (EPA Method 8021B)

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 7-11-23

Received By:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 7-11-23

Received By:

REMARKS:

joesph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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Corrected Temp. °C

Sampler - UPS - Bus - Other:

Observed Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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Corrected Temp. °C

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3063

APPENDIX E – INITIAL C-141 AND FINAL C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	nAPP2306837567
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email agroves@durangomidstream.com	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

Location of Release Source

Latitude 33.01038 Longitude -103.96907
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Chaves 8" Steel Line	Site Type Pipeline
Date Release Discovered 3/7/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	18	15S	30E	Chaves

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 15	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 30.46	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
External & internal corrosion.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2306837567
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?

Initial Response

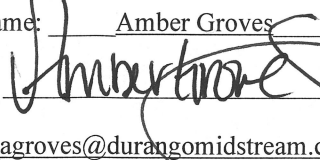
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Amber Groves Title: Sr. Environmental Specialist
Signature:  Date: 3/9/2023
email: agroves@durangomidstream.com Telephone: (575)703-7992

OCD Only

Received by: _____ Date: _____



Gas Volume Release Report

Gas Release Volume Calculator		
Date:	3/7/2023	
Site or Line Name:	MAL-Chaves 8" Steel Line LP	
Area of Hole in Pipe:	0.25	square inches
Absolute Pressure:	52.7	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	30.00	minutes
Actual Temperature:	81.1	Degrees F
Representative Gas Analysis	Please attach or email a representative gas analysis	
Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - ACF	8.84	MACF
Volume of Gas - SCF	30.46	MSCF
Notes		
Entered by user		
Calculated Value		
Constant		



Liquid Volume Release Report

Liquid Release Volume Calculator							
Date:	3/7/2023						
Site or Line Name:	MAL-Chaves 8" Steel Line						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16				0	0.00	Silt
Fine Sand	0.16				0	0.00	Fine Sand
Medium Sand	0.25	130	29.11	0.083	314.0969	14.00	Medium Sand
Coarse Sand	0.26				0	0.00	Coarse Sand
Gravely Sand	0.26				0	0.00	Gravely Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X	6	2.81	0.332	5.59752	1.00	Standing Liquids

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

Incident ID	nAPP2306837567
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	77 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

Incident ID	nAPP2306837567
District RP	
Facility ID	
Application ID	

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

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist

Signature: *Lupe Carrasco* Date: 1/30/24

email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2306837567
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist
Signature: Lupe Carrasco Date: 1/30/24
email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	nAPP2306837567
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist
Signature: Lupe Carrasco Date: 1/30/24
email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Guadalupe Carrasco

From: OCDOnline@state.nm.us
Sent: Friday, January 5, 2024 1:27 PM
To: Guadalupe Carrasco
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 300409

To whom it may concern (c/o Guadalupe Carrasco for FRONTIER FIELD SERVICES, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2306837567.

The sampling event is expected to take place:

When: 01/11/2024 @ 08:00

Where: M-18-15S-30E 0 FNL 0 FEL (33.01038,-103.96907)

Additional Information: Travis Casey (575) 689-5949

Additional Instructions: 33.0102109,-103.9687923

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 16, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: CHAVES 8"

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 11:30.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - SW01 0-4' (H240119-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - SW01 4-6' (H240119-02)

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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - SW02 0-4' (H240119-03)

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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - SW02 4-8' (H240119-04)

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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - SW03 0-4' (H240119-05)

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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - SW03 4-6' (H240119-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59	
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55	
Total BTEx	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: N - SW01 0-4' (H240119-07)

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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: N - SW01 4-6' (H240119-08)

BTX 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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: N - SW02 0-4' (H240119-09)

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	01/12/2024	ND	2.08	104	2.00	3.59	
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: N - SW02 4-6' (H240119-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - SW01 0-4' (H240119-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - SW01 4-6' (H240119-12)

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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - SW02 0-4' (H240119-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - SW02 4-6' (H240119-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - SW03 0-4' (H240119-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - SW03 4-6' (H240119-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S - SW02 0-4' (H240119-17)

BTX 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	01/12/2024	ND	2.08	104	2.00	3.59		
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S - SW02 4-6' (H240119-18)

BTX 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	01/12/2024	ND	2.08	104	2.00	3.59	
Toluene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.10	105	2.00	3.56	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.39	107	6.00	3.55	
Total BTX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S - SW01 0-4' (H240119-19)

BTX 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	01/12/2024	ND	1.95	97.5	2.00	1.27	
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03	
Total BTX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00	

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: S - SW01 4-6' (H240119-20)

BTX 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	01/12/2024	ND	1.95	97.5	2.00	1.27	
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03	
Total BTX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	178	88.9	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	163	81.7	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - FS-06 8' (H240119-21)

BTX 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	01/12/2024	ND	1.95	97.5	2.00	1.27		
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - FS-02 6' (H240119-22)

BTX 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	01/12/2024	ND	1.95	97.5	2.00	1.27		
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W - FS-04 6' (H240119-23)

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	01/12/2024	ND	1.95	97.5	2.00	1.27		
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - FS-01 6' (H240119-24)

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	01/12/2024	ND	1.95	97.5	2.00	1.27		
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - FS-03 6' (H240119-25)

BTX 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	01/12/2024	ND	1.95	97.5	2.00	1.27		
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: CHAVES 8"
 Project Number: NONE GIVEN
 Project Location: DURANGO - CHAVES

Sampling Date: 01/11/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E - FS-05 6' (H240119-26)

BTX 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	01/12/2024	ND	1.95	97.5	2.00	1.27		
Toluene*	<0.050	0.050	01/12/2024	ND	2.00	100	2.00	1.04		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.02	101	2.00	0.723		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	5.99	99.8	6.00	1.03		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-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	01/12/2024	ND	400	100	400	0.00		

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	01/12/2024	ND	201	101	200	0.968	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	200	99.9	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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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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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



1. 按

Page 29 of 31



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3-3

[illegible]

APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Durango Midstream LLC, as reflected in our proposal (PKH227021).

Additional Scope Limitations

The development of this Amended RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Durango Midstream LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Durango Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Durango Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Durango Midstream LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Durango Midstream LLC and all relying parties unless otherwise agreed in writing.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 309558

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 309558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2306837567
Incident Name	NAPP2306837567 CHAVES 8" STEEL LINE @ 0
Incident Type	Natural Gas Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CHAVES 8" STEEL LINE
Date Release Discovered	03/07/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Natural Gas 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	No
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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Corrosion Pipeline (Any) Condensate Released: 15 BBL Recovered: 0 BBL Lost: 15 BBL.
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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QUESTIONS, Page 2

Action 309558

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID:	221115
	Action Number:	309558
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

Initial Response

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

The source of the release has been stopped	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	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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: Guadalupe Carrasco Title: Sr. Environmental Specialist Email: gcarrasco@durangomidstream.com Date: 01/30/2024
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QUESTIONS, Page 3

Action 309558

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 309558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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	Greater than 5 (mi.)
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	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination 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)	3160
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	220
GRO+DRO	(EPA SW-846 Method 8015M)	20788
BTEX	(EPA SW-846 Method 8021B or 8260B)	7.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	06/12/2023
On what date will (or did) the final sampling or liner inspection occur	01/11/2024
On what date will (or was) the remediation complete(d)	01/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	750
What is the estimated volume (in cubic yards) that will be reclaimed	460
What is the estimated surface area (in square feet) that will be remediated	750
What is the estimated volume (in cubic yards) that will be remediated	460

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 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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QUESTIONS, Page 4

Action 309558

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 309558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	LEA LAND LANDFILL [fEEM0112342028]
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.
<i>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>	
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: Guadalupe Carrasco Title: Sr. Environmental Specialist Email: gcarrasco@durangomidstream.com Date: 01/30/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 309558

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 309558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

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QUESTIONS, Page 6

Action 309558

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID:	221115
	Action Number:	309558
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	300409
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/11/2024
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	750

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	750
What was the total volume (cubic yards) remediated	460
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	750
What was the total volume (in cubic yards) reclaimed	460
Summarize any additional remediation activities not included by answers (above)	None

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Guadalupe Carrasco Title: Sr. Environmental Specialist Email: gcarrasco@durangomidstream.com Date: 01/30/2024
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QUESTIONS, Page 7

Action 309558

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 309558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 309558

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/1/2024