



February 17, 2026

XTO Energy, Inc
6401 Holiday Hill Road
Midland, TX 79707

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

RE: **Amended Deferral Report**
XTO Energy
Avalon CTB #1
Unit B, Section 31, Township 20 South, Range 28 East
32.5341°, -104.21713°
Eddy County, New Mexico
Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is submitting this Release Investigation and Remediation Closure Report for the above-referenced site on behalf of XTO Energy, Inc. Prepared in line with New Mexico Oil Conservation Division (NMOCD) regulations, this report addresses the environmental actions taken in response to a minor release of crude oil and produced water discovered on November 19, 2024. A release investigation and closure report describing XTO's response to the incident was submitted to NMOCD on April 24, 2025. Terracon then provided an amended closure report addressing NMOCD's comments on October 14, 2025. On February 10, 2026 NMOCD's comments on the report were received and the OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAPP2428835246, for the following reason:

- **1) Remediation closure denied as the previous reason of rejection has still not been addressed. Delineation samples should be collected via a hand auger at an angle, beneath the concrete structure that is shown within the release area to ensure no contamination remains here that requires a deferral. In response, "We were unable to collect samples from all four cardinal directions due to the high amount of utility lines that were located on the south side of the concrete pad." These lines are not shown on the scaled site map provided. As the release originated under this shed, the "south" side still requires delineation samples to be collected to confirm nothing requires a deferral. Provide photographic documentation of the sample collection.**

Terracon Response: In response to the requirement to collect delineation samples at an angle beneath the concrete structure, coupled with our inability to collect samples from the south side of the structure due to utility lines, Terracon is seeking a deferral for the potential impact that remain, as seen in Exhibit 8 (Deferral Area Map). The Deferral Map also refers to the utilities in the area that limited previous sampling attempts.

Deferral Documentation
Avalon CTB #1 | Eddy County, New Mexico
February 17, 2026 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



Site Information

The Notice of the Release was provided to the NMOCD by Kailee Smith on November 20, 2024, with the submission of the initial C-141. NMOCD Reference ID: nAPP2432555180. The site is located within Unit B, Section 31, Township 20 South, Range 28 East, approximately 7 miles north of Carlsbad, New Mexico. A Topographic Map and Site Location Map are included in Appendix A, as Exhibit 1 and Exhibit 2.

Regulatory Criteria

Groundwater

Data from the New Mexico Office of the State Engineer (NMOSE) website identified a water well (CP-00851) located 0.19 miles west of the site, as indicated in the NMOSE Pod Location Map Exhibit 4, Appendix A. This well was completed in 1995 to a depth of 225 feet bgs and reported a depth to water of 115 feet bgs. However, Terracon was unable to access this well to measure the depth to water directly. As a result, we have applied remediation levels assuming depth to water is less than 50 feet.

Wetlands

The U.S. Fish and Wildlife Service, National Wetlands Inventory website indicates that an intermittent river is located approximately 0.5 miles southwest of the site, as indicated in the Designated Wetland Area Map Exhibit 5, Appendix A.

Karst

Geospatial data obtained from the BLM Carlsbad Field Office website indicated that the site is within an area of medium risk for Karst formations, as indicated in the Cave Karst Public UCP Map Exhibit 6, Appendix A.

Remediation

Remediation Standards

The remedial actions taken at this location occurred within the upper four feet of soil as measured from the ground surface. Therefore, the applicable remediation action levels (RALs) for this work are for Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX) (50 mg/kg) (EPA Method 8021B), Benzene (10 mg/kg) (EPA Method 8021B), Chlorides (600 mg/kg) (EPA Method 300), Total Petroleum Hydrocarbons (TPH) GRO, DRO, and MRO (100 mg/kg) (EPA Method 8015M).

Deferral Documentation
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Table 1 in 19.15.29.12 NMAC				
Remediation Action Levels for Soils Impacted by a Release				
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/LTDS	Consistent	Method*	Limit**	Units
≤ 50 Feet	Chloride***	EPA 300 or SM4500 C1 B	600	mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100	mg/kg
	BTEX	EPA SW-846 Method 8021B 8260B	50	mg/kg
	Benzene	EPA SW-846 Method 8021B 8260B	10	mg/kg
51-100 Feet	Chloride***	EPA 300 or SM4500 C1 B	10,000	mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	2,500	mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000	mg/kg
	BTEX	EPA SW-846 Method 8021B 8260B	50	mg/kg
	Benzene	EPA SW-846 Method 8021B 8260B	10	mg/kg
>100 Feet	Chloride***	EPA 300 or SM4500 C1 B	20,000	mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	2,500	mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000	mg/kg
	BTEX	EPA SW-846 Method 8021B 8260B	50	mg/kg
	Benzene	EPA SW-846 Method 8021B 8260B	10	mg/kg
*Or other test methods approved by division			Project Name:	Project Number:
**Numerical limits or natural background level, whichever is greater			Avalon CTB #1	KH247058
***This applies to releases of produced water or other fluids which may contain chloride			Karst Potential:	Incident ID:
[19.15.29.12 NMAC - N, 8/14/2018]			Low	nAPP2432555180
The highlighted section indicates the remediation standard applicable to the site.			Depth to Water:	Wetland:
			Unknown	Over 1 Mile

Remedial / Delineation Activities

Terracon conducted remedial activities at the site from December 5, 2024, through April 8, 2025. An area of approximately 2,250 square feet was affected by the release. A total of 22 delineation samples from 11 locations were collected and submitted for analysis of BTEX, TPH, and chloride. Delineation sample results for BTEX, TPH, and Chloride were below applicable NMOCD closure criteria. A Delineation Sample Map depicting the sample locations is provided in Appendix A, Exhibit 3. Delineation sample results are included in Appendix B, Table 1 - Delineation Samples.

Confirmation/Closure Activities

Areas exhibiting visual impact and the areas that exceeded the closure criteria were excavated to a depth of between 0.5 feet to 2.5 feet bgs. A total of 28 five-point composite confirmation soil samples were collected from December 11, 2024, to July 22, 2025, and were submitted for the analysis of BTEX, Chlorides, and TPH. The results show that they are below the applicable NMOCD closure criteria shown below. The excavation was backfilled with imported fill material and leveled off. Confirmation sample results are included in Appendix B, Table 2 – Confirmation Floors and Table 3 – Confirmation Sidewalls.

A total of approximately 60 cubic yards (cu. yds.) of loose soil were excavated during remedial activities. Excavated material was stockpiled on-site atop a polyethylene liner pending-disposal under an approved Form C-138. The excavated material was disposed of at Lea Land Facility, the hydro-vacuum waste was disposed of at R-360 Environmental Solutions. Soil disposal waste manifests are available upon request. A Confirmation Sample

Deferral Documentation
Avalon CTB #1 | Eddy County, New Mexico
February 17, 2026 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



Map depicting the floor and wall sample locations and analytical results is included in Appendix A, Exhibit 7, respectively. Floor and wall confirmation sample analytical results are included in Appendix B, Table 2 and Table 3. Photographs of the project site are included in Appendix E. The analytical reports and Chain of Custody (COC) are included in Appendix F. Terracon’s Standard of Care, Limitation, and Reliance are included in Appendix G.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the accessible impacted material is complete, and XTO Energy respectfully requests approval for the Amended Deferral Report of the reportable incident that occurred on November 19, 2024, at the NMOCD Reference # nAPP2428245356 – Avalon CTB #1 location.

We appreciate the opportunity to offer our environmental services to XTO Energy and are committed to providing the highest level of service and support. Should you need further information or have any queries, we encourage you to contact our office as soon as possible.

Sincerely,



Prepared by:

Austin Worley
Staff Scientist
Lubbock, Texas

Reviewed by:

John Grams, P.G. (TX)
Senior Consultant
Lubbock, Texas

Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Location Map
- Exhibit 3 – Delineation Map
- Exhibit 4 – NMOSE POD Map
- Exhibit 5 – Designated Wetland Area Map
- Exhibit 6 – Cave Karst Public UCP Map
- Exhibit 7 – Confirmation Sample Map
- Exhibit 8 – Deferral Area Map

Appendix B – Tables

- Table 1 – Delineation Samples

Deferral Documentation
Avalon CTB #1 | Eddy County, New Mexico
February 17, 2026 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



Table 2 - Confirmation Floor Samples
Table 3 - Confirmation Wall Samples

- Appendix C – C-141 Summary Sheet**
- Appendix D – Well Information**
- Appendix E – Photographic Log**
- Appendix F – Analytical Report and Chain of Custody**
- Appendix G – Terracon Standard of Care, Limitation, and Reliance**

Closure Documentation
Avalon CTB #1 | Eddy County, New Mexico
October 14, 2025 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180




APPENDIX A – Exhibits



Foot
100
50
0

DATA SOURCES: Bing



 Site Boundary

Project No.: KH247058
Date: Dec 20 2024
Drawn By: JWJ
Reviewed By: JRG



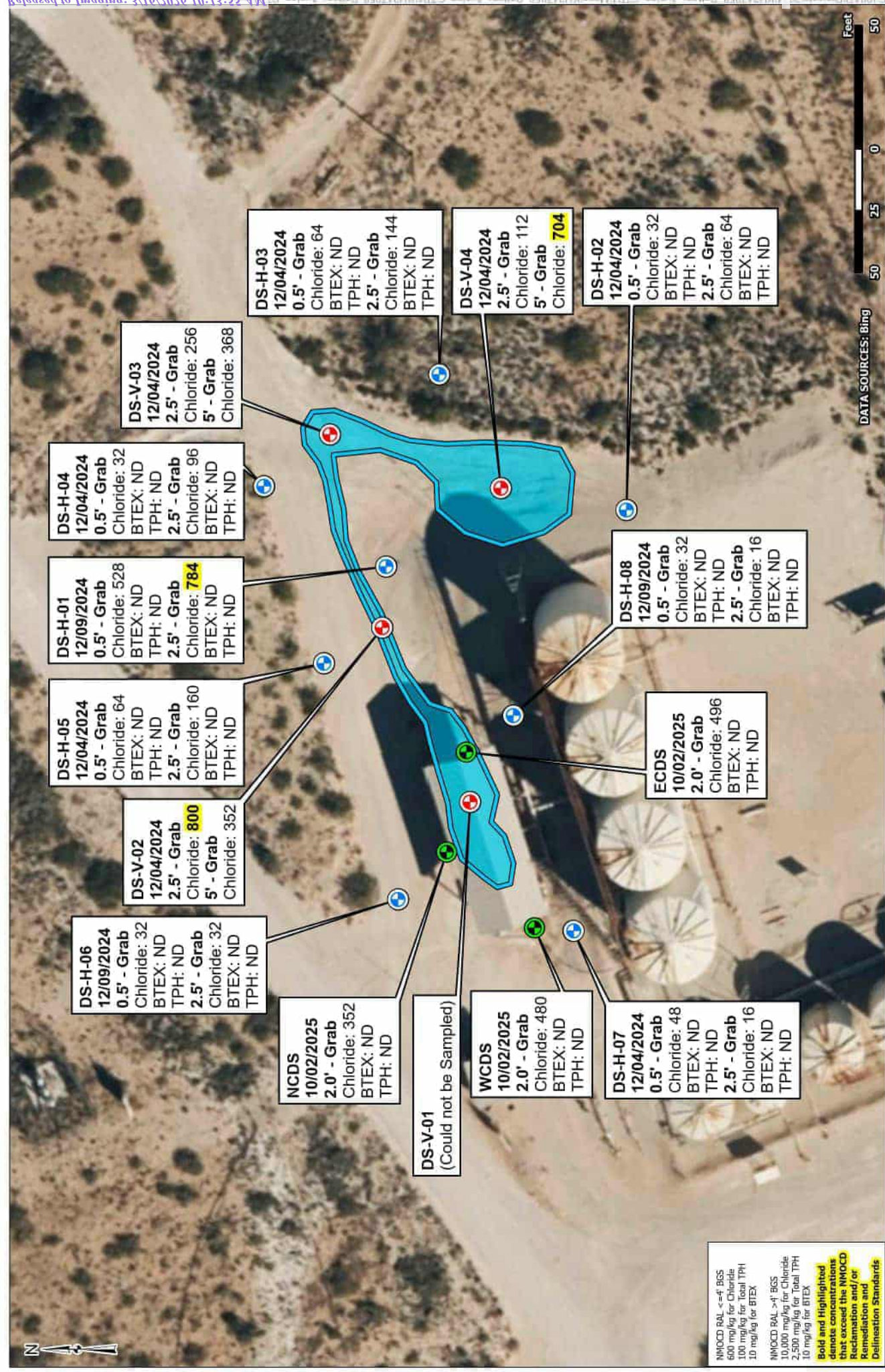
4526 W Pierce St
Carlsbad, NM
PH. 806-300-0140
terracon.com

Site Location Map

Avalon CTB #1
32.53410, -104.21713
Carlsbad, Eddy County, New Mexico

Exhibit

2



Feet
50 0 25 50
DATA SOURCES: Bing

Exhibit
3

Delineation Sample Map
Avalon CTB #1
32.53410, -104.21713
Carlsbad, Eddy County, New Mexico

5847 50th St
Lubbock, TX
terracon.com
PH: 806-300-0140

Project No.:	KH247058
Date:	Oct 14 2025
Drawn By:	JWL
Reviewed By:	JRG

- Inferred Release
- Concrete Delineation Sample
 - Horizontal Delineation Sample
 - Vertical Delineation Sample



NMOCED RAL <= 4" BGS
600 mg/kg for Chloride
100 mg/kg for Total TPH
10 mg/kg for BTEX

NMOCED RAL > 4" BGS
10,000 mg/kg for Chloride
2,500 mg/kg for Total TPH
10 mg/kg for BTEX

Bold and Highlighted
denote concentrations
that exceed the NMOCED
Reclamation and/or
Remediation and
Delineation Standards

Map scale: 1 inch = 100 feet. Ground to be verified.



Exhibit

4

NMOSE POD Location Map

Avalon CTB #1
 32.53410, -104.21713
 Carlsbad, Eddy County, New Mexico



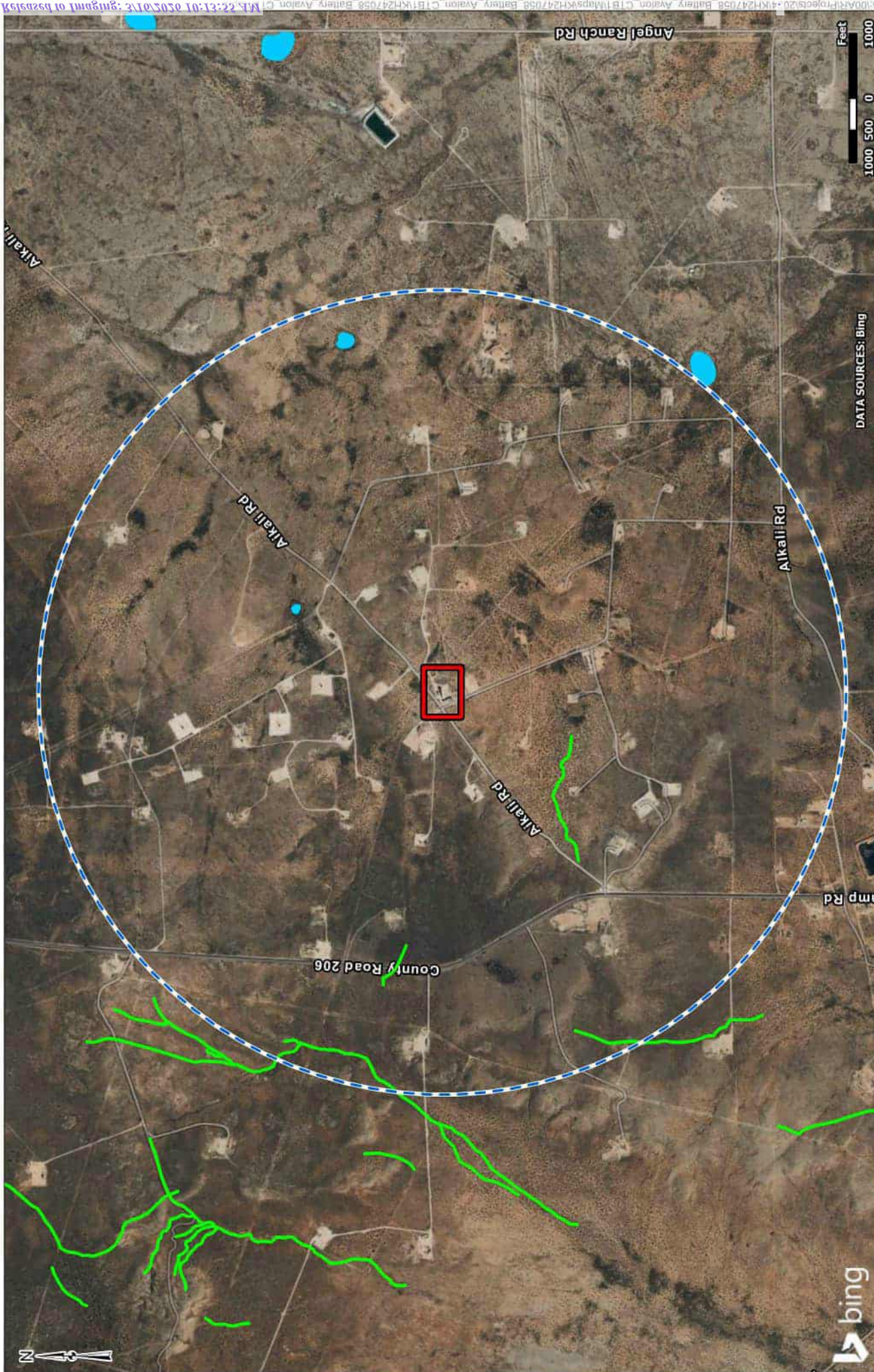
4526 W Pierce St
 Carlsbad, NM

PH. 806-300-0140 terracon.com

Project No.: KH247058
 Date: Dec 20 2024
 Drawn By: JWJ
 Reviewed By: JRG

-  Site Boundary
-  NMOSE POD Location





Project No.: KH247058
 Date: Apr 21 2025
 Drawn By: JWL
 Reviewed By: JRG

Project Location

Site Boundary
 1-Mile Radius
 Freshwater Emergent Wetland
 Intermittent River

Designated Wetland Area Map
 Avalon CTB #1
 32.53410, -104.21713
 Carlsbad, Eddy County, New Mexico

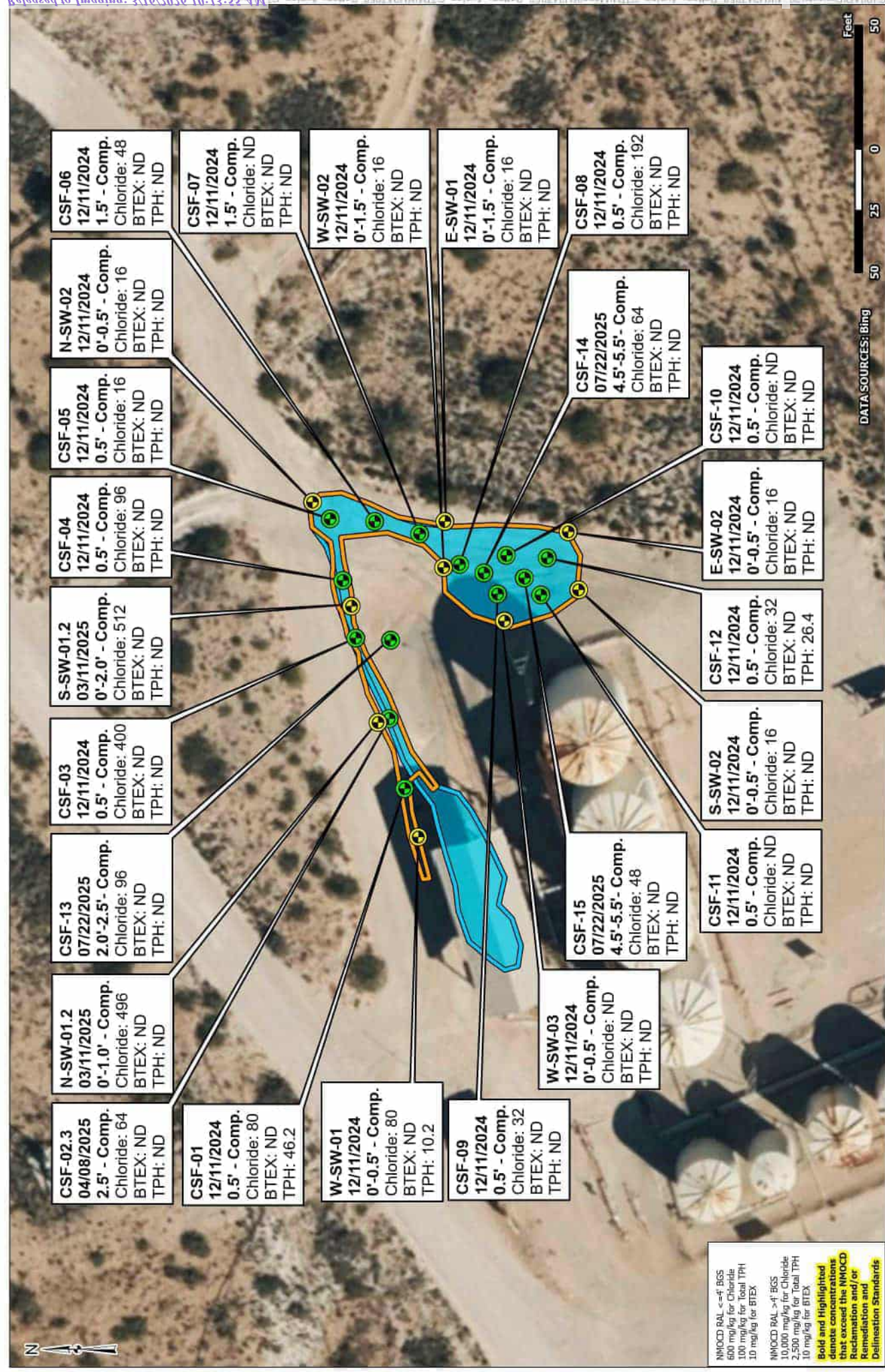
Exhibit
5

Terracon
 5847 50th St
 Lubbock, TX
 PH: 806-300-0140
 terracon.com

Project No.: KH247058
 Date: Apr 21 2025
 Drawn By: JWL
 Reviewed By: JRG

Project Location

Project Location



Feet
50 0 25 50
DATA SOURCE: Bing





Exhibit
7

Confirmation Sample Map
Avalon CTB #1
32.53410, -104.21713
Carlsbad, Eddy County, New Mexico



5847 50th St
Lubbock, TX
PH: 806-300-0140
terracon.com

Project No.:	KH247058
Date:	Oct 14 2025
Drawn By:	JWL
Reviewed By:	JRG

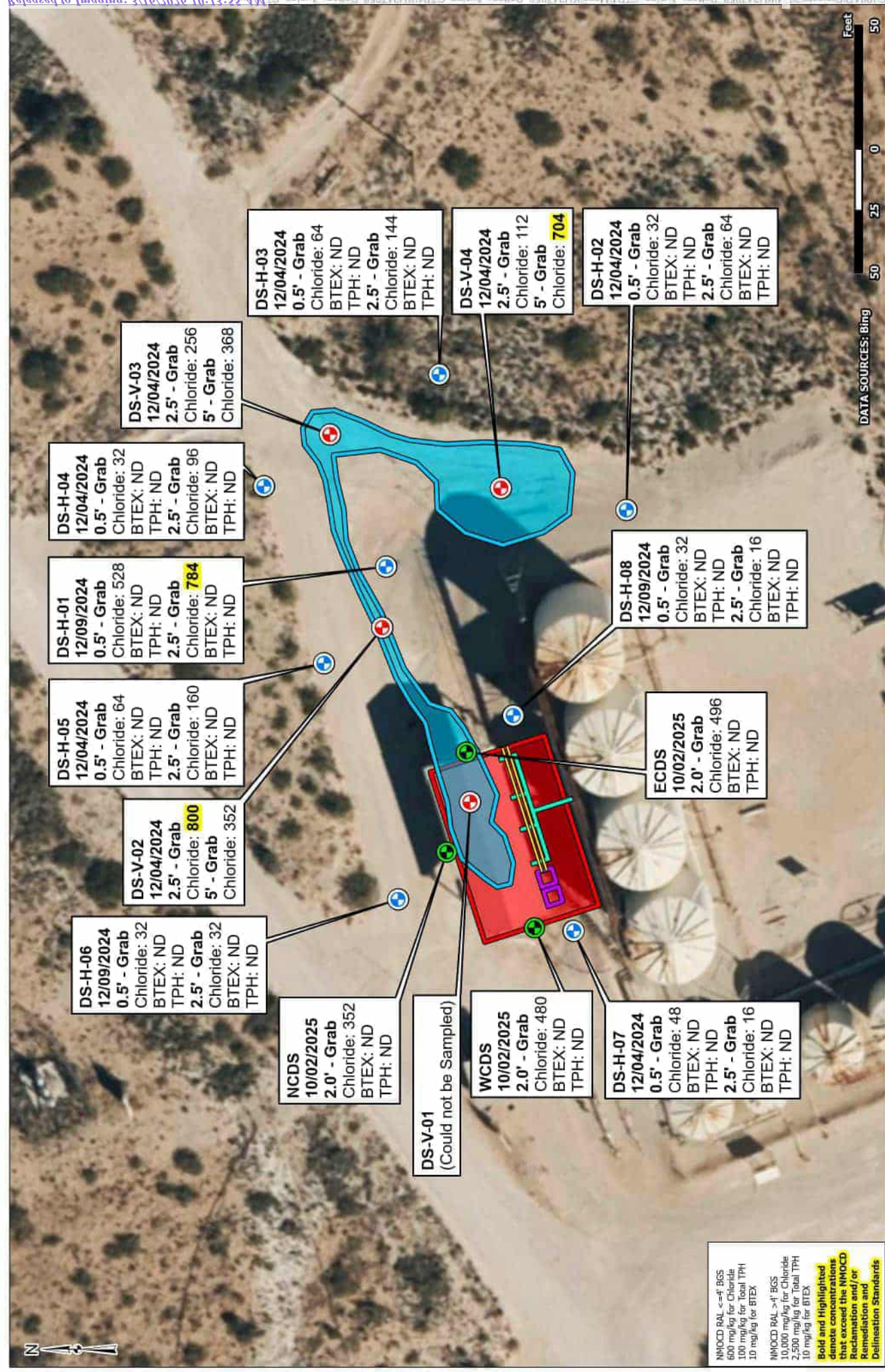
-  Confirmation Sample Wall
-  Confirmation Sample Floor
-  Excavation Boundary
-  Inferred Release



NMOCED RAL <=4 BGS
600 mg/kg for Chloride
100 mg/kg for Total TPH
10 mg/kg for BTEX

NMOCED RAL >4 BGS
10,000 mg/kg for Chloride
2,500 mg/kg for Total TPH
10 mg/kg for BTEX

Bold and Highlighted
denote concentrations
that exceed the NMOCED
Reclamation and/or
Remediation and
Delineation Standards



NMOCD RAL \leq 4" BGS
 600 mg/kg for Chloride
 100 mg/kg for Total TPH
 10 mg/kg for BTEX

 NMOCD RAL $>$ 4" BGS
 10,000 mg/kg for Chloride
 2,500 mg/kg for Total TPH
 10 mg/kg for BTEX

Bold and Highlighted
 denote concentrations
 that exceed the NMOCD
 Reclamation and/or
 Remediation and
 Delineation Standards

Inferred Release Deferral Area Above-Ground Pipe Electrical Box Electrical Lines	Concrete Delineation Sample Horizontal Delineation Sample Vertical Delineation Sample Sample	Project No.: KH247058 Date: Feb 23 2026 Drawn By: JWJL Reviewed By: JRG	Exhibit <h1 style="text-align: center;">8</h1>
		Terracon 5847 50th St Lubbock, TX PH: 806-300-0140 terracon.com	Deferral Area Map Avalon CTB #1 32.53410, -104.21713 Carlsbad, Eddy County, New Mexico

Closure Documentation
Avalon CTB #1 | Eddy County, New Mexico
October 14, 2025 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



APPENDIX B – Tables

Avalon CTB # 1
Table 1 - Delineation Assessment
Terracon Project Code: KH247058
NMOCD Reference No. nAPP2432555180


Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Delineation Assessment												
Horizontal												
DS-H-01	12/9/2024	0.5	HA-Grab	In-Situ	528	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/9/2024	2.5	HA-Grab	In-Situ	784	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-02	12/4/2024	0.5	HA-Grab	In-Situ	32	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	2.5	HA-Grab	In-Situ	64	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-03	12/4/2024	0.5	HA-Grab	In-Situ	64	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	2.5	HA-Grab	In-Situ	144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-04	12/4/2024	0.5	HA-Grab	In-Situ	32	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	2.5	HA-Grab	In-Situ	96	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-05	12/4/2024	0.5	HA-Grab	In-Situ	64	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	2.5	HA-Grab	In-Situ	160	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-06	12/9/2024	0.5	HA-Grab	In-Situ	32	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/9/2024	2.5	HA-Grab	In-Situ	32	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-07	12/4/2024	0.5	HA-Grab	In-Situ	48	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	2.5	HA-Grab	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
DS-H-08	12/9/2024	0.5	HA-Grab	In-Situ	32	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	12/9/2024	2.5	HA-Grab	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
Vertical Assessment												
DS-V-01	This area had a concrete base and could not be sampled.											
DS-V-02	12/4/2024	2.5	HA-Grab	In-Situ	800	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	5	HA-Grab	In-Situ	352	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
DS-V-03	12/4/2024	2.5	HA-Grab	In-Situ	256	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	5	HA-Grab	In-Situ	368	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
DS-V-04	12/4/2024	2.5	HA-Grab	In-Situ	112	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
	12/4/2024	5	HA-Grab	In-Situ	704	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
Samples from Under the Concrete Foundation												
NCDS	10/2/2025	2	HA-Grab	In-Situ	352	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
ECDS	10/2/2025	2	HA-Grab	In-Situ	496	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
WCDS	10/2/2025	2	HA-Grab	In-Situ	480	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	
NMOCD Remediation Standards⁴					600	10	50	100	N/A			

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
2. TPH = Total petroleum hydrocarbons
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft.
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 12/01/23
ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).
NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.
Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.
Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Data Entry:	AHW
Reviewed By:	ZM



Terracon
Explore with us

Avalon CTB # 1

Table 2 - Confirmation Floors

Project Code: KH247058

NMOCD Reference No. nAPP2432555180

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
CSF-01	12/11/2024	0.5	Composite	In-Situ	80	<0.050	<0.300	46.2	<10.0	46.2	<10.0
CSF-02	12/11/2024	0.5	Composite	In-Situ	1230	<0.050	<0.300	113	<10.0	113	<10.0
CSF-02.2	3/11/2025	1.0	Composite	In-Situ	672	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-02.3	4/8/2025	2.5	Composite	In-Situ	64	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-03	12/11/2024	0.5	Composite	In-Situ	400	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-04	12/11/2024	0.5	Composite	In-Situ	96	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-05	12/11/2024	0.5	Composite	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-06	12/11/2024	1.5	Composite	In-Situ	48	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-07	12/11/2024	1.5	Composite	In-Situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-08	12/11/2024	0.5	Composite	In-Situ	192	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-09	12/11/2024	0.5	Composite	In-Situ	32	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-10	12/11/2024	0.5	Composite	In-Situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-11	12/11/2024	0.5	Composite	In-Situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-12	12/11/2024	0.5	Composite	In-Situ	32	<0.050	<0.300	26.4	<10.0	26.4	<10.0
CSF-13	7/22/2025	2 - 2.5	Composite	In-Situ	96	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-14	7/22/2025	4.5 - 5	Composite	In-Situ	64	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-15	7/22/2025	4.5 - 5	Composite	In-Situ	48	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
NMOCD Remediation Standards⁴									N/A		

Confirmation Table

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Data Entry:

AHW

Reviewed By:

ZM



Avalon CTB # 1												
Table 3 - Confirmation Sidewalls												
Terracon Project Code: KH247058												
NMOCD Reference No. nAPP243255180												
Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
N-SW-01	12/11/2024	0	0.5	Composite	In-Situ	256	<0.050	<0.300	149.9	<10.0	135	14.9
N-SW-01.2	3/11/2025	0	1	Composite	In-Situ	496	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
N-SW-02	12/11/2024	0	0.5	Composite	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
E-SW-01	12/11/2024	0	1.5	Composite	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
E-SW-02	12/11/2024	0	0.5	Composite	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
S-SW-01	12/11/2024	0	0.5	Composite	In-Situ	112	<0.050	<0.300	134	<10.0	134	<10.0
S-SW-01.2	3/11/2025	0	2	Composite	In-Situ	512	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
S-SW-02	12/11/2024	0	0.5	Composite	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
W-SW-01	12/11/2024	0	0.5	Composite	In-Situ	80	<0.050	<0.300	10.2	<10.0	10.2	<10.0
W-SW-02	12/11/2024	0	1.5	Composite	In-Situ	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
W-SW-03	12/11/2024	0	0.5	Composite	In-Situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
NMOCD Remediation Standards⁴ (Greater than Depths of 4 ft bgs)						600	10	50	100		N/A	
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes												
2. TPH = Total petroleum hydrocarbons												
3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for												
4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018												
ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).												
NA = Not Analyzed												
Bold denotes concentrations above applicable laboratory SDLs.												
Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.												
In-situ = Sample is representative of material which remains in-place at the site.												
Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.												
Data Entry:						AHW						
Reviewed By:						ZM						



Closure Documentation
Avalon CTB #1 | Eddy County, New Mexico
October 14, 2025 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



APPENDIX D – Well Information

Well was drilled under Permit No. CP-850 CP-851 and is located in the:

- a. $\frac{1}{4}$ $\frac{SE}{NW}$ $\frac{1}{4}$ $\frac{NW}{NW}$ $\frac{1}{4}$ $\frac{NE}{SW}$ $\frac{1}{4}$ of Section 31 Township 20-S. Range 28-E. N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Glenn's Water Well Service License No. WD 421

Address P.O. Box 692 Tatum, New Mexico 88267

Drilling Began 9/14/95 Completed 9/14/95 Type tools rotary Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 255 ft.

Completed well is shallow artesian. Depth to water upon completion of well 115 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
205	230	25	lime	12

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	.188		1	257	257	orange peel	181	257

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Closure Documentation
Avalon CTB #1 | Eddy County, New Mexico
October 14, 2025 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



APPENDIX E – Photographic Log

Photo Log



Photos of the release



Photos of the release

Photo Log



Photos of the release



Photos of the release

Photo Log



Photos of the release



Photos of the release

Photo Log



Photos of the remediation efforts



Photos of the remediation efforts

Photo Log



Photos of the remediation efforts



Photos of the remediation efforts

Photo Log



Photos of the remediation efforts



Photos of the remediation efforts

Photo Log



Photos of the remediation efforts



Photos of the remediation efforts

Photo Log



Photos of the remediation efforts



Photos of the remediation efforts

Photo Log



Photos of additional remediation at CSF-02.3



Photos of additional remediation at S-SW-01.2

Photo Log



Photos of additional remediation at CSF-02.3



Photos of the site backfilled following the remediation

Photo Log



Photos of the site backfilled following the remediation



Photos of the site backfilled following the remediation

Photo Log



Photo demonstrating the extent of concrete coverage at project site.



Photo demonstrating concrete coverage following additional Hydro-excavation / cleaning.

Closure Documentation
Avalon CTB #1 | Eddy County, New Mexico
October 14, 2025 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



APPENDIX F – Analytical Report and Chain of Custody



December 09, 2024

AUSTIN WORLEY
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 12/05/24 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/ga/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.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/05/2024	Sampling Date:	12/04/2024
Reported:	12/09/2024	Sampling Type:	Soil
Project Name:	AVALON CTB # 1	Sampling Condition:	Cool & Intact
Project Number:	KH247058	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

Sample ID: DS-H-02 0.5 (H247408-01)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/06/2024	ND	464	116	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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-02 2.5 (H247408-02)

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	12/05/2024	ND	2.13	106	2.00	1.31		
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762		
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564		
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518		
Total BTEX	<0.300	0.300	12/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	64.0	16.0	12/06/2024	ND	400	100	400	11.3	QM-07	

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	12/05/2024	ND	218	109	200	2.65		
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-03 0.5 (H247408-03)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	64.0	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-03 2.5 (H247408-04)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-04 0.5 (H247408-05)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-04 2.5 (H247408-06)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-05 0.5 (H247408-07)

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	12/05/2024	ND	2.13	106	2.00	1.31		
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762		
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564		
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518		
Total BTEX	<0.300	0.300	12/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	64.0	16.0	12/06/2024	ND	400	100	400	11.3		

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	12/05/2024	ND	218	109	200	2.65		
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-05 2.5 (H247408-08)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	160	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-07 0.5 (H247408-09)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-H-07 2.5 (H247408-10)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-V-02 2.5 (H247408-11)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	800	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

 Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-V-02 5 (H247408-12)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	352	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/05/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

 Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-V-03 2.5 (H247408-13)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	256	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/06/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/06/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/06/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

 Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-V-03 5 (H247408-14)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	368	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/06/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/06/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/06/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-V-04 2.5 (H247408-15)

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	12/05/2024	ND	2.13	106	2.00	1.31	
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	12/06/2024	ND	400	100	400	11.3	

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	12/06/2024	ND	218	109	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/06/2024	ND	201	100	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	12/06/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2024
 Reported: 12/09/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS-V-04 5 (H247408-16)

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	12/05/2024	ND	2.13	106	2.00	1.31		
Toluene*	<0.050	0.050	12/05/2024	ND	2.11	106	2.00	0.762		
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.10	105	2.00	0.564		
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.31	105	6.00	0.518		
Total BTEX	<0.300	0.300	12/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	704	16.0	12/06/2024	ND	400	100	400	11.3		

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	12/06/2024	ND	218	109	200	2.65		
DRO >C10-C28*	<10.0	10.0	12/06/2024	ND	201	100	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	12/06/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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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

1092

Company Name: Terracon Project Manager: Austin Worley Address: 4526 W. Pierce Street City: Carlsbad Phone #: 915-262-9701 Project #: KH247058 Project Name: Avalon CTB # 1 Project Location: Eddy Sampler Name: Gus Sanchez		State: NM Zip: 88220 Fax #: Project Owner: XTO Energy Inc. Phone #: Fax #:		P.O. #: Company: XTO Energy Attn: Colton Brown Address: 3104 E. Greene St. City: Carlsbad State: NM, 88220 Phone #: Fax #:		BILL TO: ANALYSIS REQUEST							
Lab I.D. H947408		Sample I.D.		Depth Start End (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) Hold	
1 DS-H-02 0.5 0.5 G 1 2 DS-H-02 2.5 2.5 G 1 3 DS-H-03 0.5 0.5 G 1 4 DS-H-03 2.5 2.5 G 1 5 DS-H-04 0.5 0.5 G 1 6 DS-H-04 2.5 2.5 G 1 7 DS-H-05 0.5 0.5 G 1 8 DS-H-05 2.5 2.5 G 1 9 DS-H-07 0.5 0.5 G 1 10 DS-H-07 2.5 2.5 G 1													
Relinquished By: 		Date: 12-5-24 Time: 1435		Received By: 		Checked By: 		Turnaround Time: Standard <input type="checkbox"/> Bacteri/only Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID: #140 Corrosion Factor: 0.18		Observed Temp. °C -1.3 Corrected Temp. °C -1.9		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
REMARKS: All Results are emailed. Please provide Email address: joseph.guestinier@terracon.com; travis.casen@terracon.com; chuck.smith@terracon.com; becky.sue.miller@terracon.com; gus.sanchez@terracon.com; austin.worley@terracon.com		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:											

FORM-008 R 3.2 10/07/21 T Cardinal cannot accept verbal changes. Please email changes to calvin.keenhe@cardinalabnorm.com



December 18, 2024

AUSTIN WORLEY
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 12/12/24 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/ga/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.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS-H-01 0.5 (H247548-01)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/17/2024	ND	432	108	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	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS-H-01 2.5 (H247548-02)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/17/2024	ND	432	108	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	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS-H-06 0.5 (H247548-03)

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	12/16/2024	ND	2.03	102	2.00	5.77		
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48		
Total BTEX	<0.300	0.300	12/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/17/2024	ND	432	108	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	12/14/2024	ND	203	101	200	0.464		
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19		
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS-H-06 2.5 (H247548-04)

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	12/16/2024	ND	2.03	102	2.00	5.77		
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48		
Total BTEX	<0.300	0.300	12/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/17/2024	ND	432	108	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	12/14/2024	ND	203	101	200	0.464		
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19		
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS-H-08 0.5 (H247548-05)

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	12/16/2024	ND	2.03	102	2.00	5.77		
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48		
Total BTEX	<0.300	0.300	12/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/17/2024	ND	432	108	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	12/14/2024	ND	203	101	200	0.464		
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19		
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND						

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS-H-08 2.5 (H247548-06)

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	12/16/2024	ND	2.03	102	2.00	5.77		
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48		
Total BTEX	<0.300	0.300	12/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/17/2024	ND	432	108	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	12/14/2024	ND	203	101	200	0.464		
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19		
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND						

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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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

pg 1/1

BILL TO:

ANALYSIS REQUEST

Company Name: Terracon
 Project Manager: Austin Worley
 Address: 4526 W. Pierce Street
 City: Carlsbad
 Phone #: 915-262-9701
 Project #: KH247058
 Project Name: Avalon CTB # 1
 Project Location: Eddy
 Sampler Name: Gus Sanchez

P.O. #: XTO Energy
 Company: XTO Energy
 Address: Colton Brown
 3104 E Greene St.
 City: Carlsbad
 State: NM, 88220

State: NM
 ZIP: 88220
 Project Owner: XTO Energy Inc.

Phone #: NM, 88220

Lab I.D.	Sample I.D.	Depth		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride (EPA Method 4500)	TPH Extended 8015	BTEX (EPA Method 8021B)	Hold
		Start	End			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
12497548	DS-H-01	0.5	0.5	G	1	•	•	•	•	•	•	12/9/2024	12:05	•	•	•	•
	DS-H-01	2.5	2.5	G	1	•	•	•	•	•	•	12/9/2024	12:13	•	•	•	•
	DS-H-06	0.5	0.5	G	1	•	•	•	•	•	•	12/9/2024	14:21	•	•	•	•
	DS-H-06	2.5	2.5	G	1	•	•	•	•	•	•	12/9/2024	14:25	•	•	•	•
	DS-H-08	0.5	0.5	G	1	•	•	•	•	•	•	12/9/2024	13:22	•	•	•	•
	DS-H-08	2.5	2.5	G	1	•	•	•	•	•	•	12/9/2024	13:28	•	•	•	•

LABORATORY NOTE: Laboratory and Diagnostic Corporation's analytical and sampling methods for any other activity not listed in contract or addendum shall be subject to the standard of care for the contract. All claims, including those for negligence and any other claims, shall be subject to the standard of care for the contract. All claims, including those for negligence and any other claims, shall be subject to the standard of care for the contract. All claims, including those for negligence and any other claims, shall be subject to the standard of care for the contract.

Relinquished By: [Signature]

Received By: [Signature]

Date: 12/24/24

Time: 10:00

Observed Temp. °C: -4.2°C
 Corrected Temp. °C: -4.8°C

Sample Condition: Cool / Isotemp / Warm / Hot

Turnaround Time: Standard / Rush

Thermometer ID: #45746
 Correction Factor: Δ±0.0°C

Verbal Result: Yes No Add'l Phone #:

REMARKS:



December 18, 2024

AUSTIN WORLEY
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 12/12/24 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/ga/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.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-01 0.5 (H247549-01)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	46.2	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-02 0.5 (H247549-02)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	12/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	113	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-03 0.5 (H247549-03)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/17/2024	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	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-04 0.5 (H247549-04)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/17/2024	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	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-05 0.5 (H247549-05)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/17/2024	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	12/14/2024	ND	203	101	200	0.464	
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-06 1.5 (H247549-06)

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	12/16/2024	ND	2.03	102	2.00	5.77		
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48		
Total BTEX	<0.300	0.300	12/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/17/2024	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	12/14/2024	ND	203	101	200	0.464		
DRO >C10-C28*	<10.0	10.0	12/14/2024	ND	191	95.4	200	1.19		
EXT DRO >C28-C36	<10.0	10.0	12/14/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-07 1.5 (H247549-07)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-08 0.5 (H247549-08)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-09 0.5 (H247549-09)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-10 0.5 (H247549-10)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-11 0.5 (H247549-11)

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	12/16/2024	ND	2.03	102	2.00	5.77		
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48		
Total BTEX	<0.300	0.300	12/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534		
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64		
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND						

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF-12 0.5 (H247549-12)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	26.4	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: N-SW-01 0-0.5 (H247549-13)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	135	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	14.9	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: N-SW-02 0-0.5 (H247549-14)

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	12/16/2024	ND	2.03	102	2.00	5.77	
Toluene*	<0.050	0.050	12/16/2024	ND	1.96	97.9	2.00	5.62	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	1.98	99.0	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	5.93	98.8	6.00	6.48	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: E-SW-01 0-1.5 (H247549-15)

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	12/16/2024	ND	1.98	98.9	2.00	8.71		
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66		
Total BTEX	<0.300	0.300	12/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534		
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64		
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: E-SW-02 0-0.5 (H247549-16)

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	12/16/2024	ND	1.98	98.9	2.00	8.71		
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66		
Total BTEX	<0.300	0.300	12/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534		
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64		
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: S-SW-01 0-0.5 (H247549-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2024	ND	1.98	98.9	2.00	8.71		
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66		
Total BTEX	<0.300	0.300	12/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534		
DRO >C10-C28*	134	10.0	12/16/2024	ND	194	97.0	200	3.64		
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: S-SW-02 0-0.5 (H247549-18)

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	12/16/2024	ND	1.98	98.9	2.00	8.71		
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05		
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47		
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66		
Total BTEX	<0.300	0.300	12/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534		
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64		
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: W-SW-01 0-0.5 (H247549-19)

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	12/16/2024	ND	1.98	98.9	2.00	8.71	
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	10.2	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: W-SW-02 0-1.5 (H247549-20)

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	12/16/2024	ND	1.98	98.9	2.00	8.71	
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: W-SW-03 0-0.5 (H247549-21)

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	12/16/2024	ND	1.98	98.9	2.00	8.71	
Toluene*	<0.050	0.050	12/16/2024	ND	1.98	99.1	2.00	9.05	
Ethylbenzene*	<0.050	0.050	12/16/2024	ND	2.00	100	2.00	9.47	
Total Xylenes*	<0.150	0.150	12/16/2024	ND	6.01	100	6.00	9.66	
Total BTEX	<0.300	0.300	12/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2024	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	12/16/2024	ND	199	99.7	200	0.534	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	194	97.0	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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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

pg 1/2

Company Name: Terracon		Project Manager: Austin Worley		Address: 4526 W. Pierce Street		City: Carlsbad		State: NM		Zip: 88220		Company: XTO Energy		Contact: Colton Brown		Address: 3104 E. Greene St.		City: Carlsbad		State: NM, 88220		Phone #: 915-262-9701		Fax #: 915-262-9701		Project #: KH247058		Project Name: Avalon CTB # 1		Project Location: Eddy		Sampler Name: Gus Sanchez									
P.O. #:		Company:		Address:		City:		State:		Zip:		Company:		Contact:		Address:		City:		State:		Phone #:		Fax #:		Project #:		Project Name:		Project Location:		Sampler Name:									
BILL TO:		XTO Energy		Colton Brown		3104 E. Greene St.		Carlsbad		NM, 88220		XTO Energy		Colton Brown		3104 E. Greene St.		Carlsbad		NM, 88220		915-262-9701		915-262-9701		KH247058		Avalon CTB # 1		Eddy		Gus Sanchez									
Sample I.D.		Sample I.D.		Start		End		(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)		Hold	
11417549		CSF-01		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
2		CSF-02		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
3		CSF-03		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
4		CSF-04		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
5		CSF-05		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
6		CSF-06		1.5		1.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
7		CSF-07		1.5		1.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
8		CSF-08		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
9		CSF-09		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
10		CSF-10		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
11		CSF-11		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
12		CSF-12		0.5		0.5		C 1		1		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
Relinquished By:		Date: 12-12-24		Time: 11:44		Received By:		Date: 12/11/2024		Time: 9:22		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		All Results are emailed. Please provide Email address:		Joseph.guestier@terracon.com; Travis.Casby@terracon.com; Chuck.Smith@terracon.com;beckyquae.miller@terracon.com; gus.sanchez@terracon.com austin.worley@terracon.com		Turnaround Time: Standard <input checked="" type="checkbox"/> Backlog (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp: <input type="checkbox"/> °C <input type="checkbox"/> °F		Thermometer ID #117 #140 Rush <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp: <input type="checkbox"/> °C <input type="checkbox"/> °F		Correction Factor: +0.1 °C -0.1 °C		REMARKS:																	
Delivered By: (Circle One)		Sampler - LIPS		- Bus		- Other:		Observed Temp: <input type="checkbox"/> °C <input type="checkbox"/> °F		Corrected Temp: <input type="checkbox"/> °C <input type="checkbox"/> °F		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials)		Terracon cannot accept verbal changes. Please email changes to caley.keene@cardinalabnm.com																									



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 2/2

Company Name: Terracon
 Project Manager: Austin Worley
 Address: 4526 W. Pierce Street
 City: Carlsbad
 Phone #: 915-262-9701
 Project #: KH247058
 Project Name: Avalon CTR # 1
 Project Location: Eddy
 Sampler Name: Gus Sanchez

State: NM
 Zip: 88220
 Project Owner: XTO Energy Inc.
 State: NM, 88220

P.O. #: XTO Energy
 Company: Colton Brown
 Attn: 3104 E Greene St.
 Address: Carlsbad
 State: NM, 88220

BILL TO:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride (EPA Method4500)	TPH Extended 8015	BTEX (EPA Method 8021B)	Hold
		Start	End			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :										
HAU7549																					
13	N-SW-01	0	0.5	C	1	•									12/11/2024	9:26	•	•	•		
14	N-SW-02	0	0.5	C	1	•									12/11/2024	9:36	•	•	•		
15	E-SW-01	0	1.5	C	1	•									12/11/2024	9:49	•	•	•		
17	E-SW-02	0	0.5	C	1	•									12/11/2024	9:51	•	•	•		
18	S-SW-01	0	0.5	C	1	•									12/11/2024	9:33	•	•	•		
19	S-SW-02	0	0.5	C	1	•									12/11/2024	9:53	•	•	•		
20	W-SW-01	0	0.5	C	1	•									12/11/2024	9:27	•	•	•		
21	W-SW-02	0	1.5	C	1	•									12/11/2024	9:44	•	•	•		
	W-SW-03	0	0.5	C	1	•									12/11/2024	9:55	•	•	•		

PREPARE NOTE: Lability and Design: Cardinal's facility and staff's activities comply for any cases arising whether based in contract or tort, shall be limited to the amount paid for the cost for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and accepted 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. Cardinal's liability shall be limited to the amount paid for the cost for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and accepted 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. Cardinal's liability shall be limited to the amount paid for the cost for the analysis.

Relinquished By: [Signature]
 Date: 12-24
 Time: 11:44
 Received By: [Signature]
 Date: 12-24
 Time: 11:44

Observed Temp: 4.3°C
 Corrected Temp: -4.8°C

Sample Condition:
 Cool Intact: Yes No
 Bacteria (only) Sample Condition: Yes No

Turnaround Time: Standard Rush

Thermometer ID: #1110
 Correction Factor: +0.0°C

Verbal Result: Yes No Add'l Phone #:

REMARKS:

FORM-006-R-3.2-10/07/21
 † Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabnm.com



March 12, 2025

AUSTIN WORLEY
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 03/11/25 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/ga/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.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/11/2025
 Reported: 03/12/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 03/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: N - SW - 01.2 (H251443-01)

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	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	496	16.0	03/12/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.9 % 40.6-153

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

Analytical Results For:

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

 Received: 03/11/2025
 Reported: 03/12/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 03/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - SW - 01.2 (H251443-02)

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	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	512	16.0	03/12/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 89.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/11/2025
 Reported: 03/12/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 03/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CSF - 02.2 (H251443-03)

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	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	672	16.0	03/12/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Project Manager: Austin Worley

P.O. #: Terracon

Address: 5847 50th Street

Company: Terracon

City: Lubbock State: TX Zip: 79424

Attn: Austin Worley

Phone #: (806) 300-2912 Fax #:

Address: 5847 50th

Project #: KAHZ47058 Project Owner:

City: Lubbock

Project Name: Avalon CTR #1

State: TX Zip: 79424

Project Location: Cartsbad, NM

Phone #: (806) 300-0140

Sampler Name: Austin Worley

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<u>1461443</u>	<u>N-SW-01.2</u>	<u>C</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>13:22</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>	<u>S-SW-01.2</u>	<u>C</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>13:25</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>	<u>CSF-02.2</u>	<u>C</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>13:29</u>	<u>X</u>	<u>X</u>	<u>X</u>	

PLEASE NOTE: Liability and Coverage: Cardinal's liability and coverage extends to the amount paid by the client for the analysis. 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. It is to be noted that Cardinal is not 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. Agreement of whether such claim is based upon any of the above stated limitations or otherwise.

Relinquished By: Austin Worley

Date: 3-11-25

Time: 13:26

Received By: Spodigary

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

austin.worley@terracon.com

Relinquished By: Austin Worley

Date: 3-11-25

Time: 13:26

Received By: Spodigary

REMARKS:

Turnaround Time: 24 HR

Delivered By: (Circle One)

Observed Temp. °C: 5.1

Sample Condition: Intact Cool Yes No

CHECKED BY: SK

Thermometer ID #148

Standard RUSH

Bacteria (only) Sample Condition: Intact Cool Yes No

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 5.4

Sample Condition: Intact Cool Yes No

CHECKED BY: SK

Thermometer ID #148

Standard RUSH

Bacteria (only) Sample Condition: Intact Cool Yes No

Phone: 505-335-0271 ext 223

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



April 10, 2025

AUSTIN WORLEY
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 04/08/25 15:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/ga/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,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/08/2025	Sampling Date:	04/08/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	AVALON CTB # 1	Sampling Condition:	Cool & Intact
Project Number:	KH247058 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

Sample ID: CSF - 02.3 (H252095-01)

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	04/09/2025	ND	2.03	102	2.00	4.66		
Toluene*	<0.050	0.050	04/09/2025	ND	1.92	95.8	2.00	3.20		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.93	96.4	2.00	2.80		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.95	99.2	6.00	2.26		
Total BTEX	<0.300	0.300	04/09/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/09/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	202	101	200	2.31		
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND						

Surrogate: 1-Chlorooctane 98.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

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

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

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

July 29, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 07/23/25 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 13 2.0-2.5 (H254452-01)

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	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/24/2025	ND	432	108	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	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 14 4.5-5.0 (H254452-02)

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	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/24/2025	ND	432	108	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	07/25/2025	ND	186	92.9	200	0.380		
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892		
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND						

Surrogate: 1-Chlorooctane 87.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 15 4.5-5.0 (H254452-03)

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	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	07/24/2025	ND	432	108	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	07/25/2025	ND	186	92.9	200	0.380		
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892		
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND						

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.5 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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Celey D. Keene, Lab Director/Quality Manager



Office Location: Lubbock, Texas

Project Manager: Austin Worley

Sampler's Name: Daniel Pavelka

Sampler's Signature: [Signature]

Laboratory: Cardinal Laboratories

ANALYSIS REQUESTED

LAB USE ONLY
DUE DATE:

TEMP OF COOLER WHEN RECEIVED (°C)
08 / 90.3
112 / 41
ND

Page 1 of 1

Project Number: KH247058

Project Name: Avalon CTB #1

Identifying Marks of Sample(s)

Start Depth (FT): 2.0

End Depth (FT): 2.5

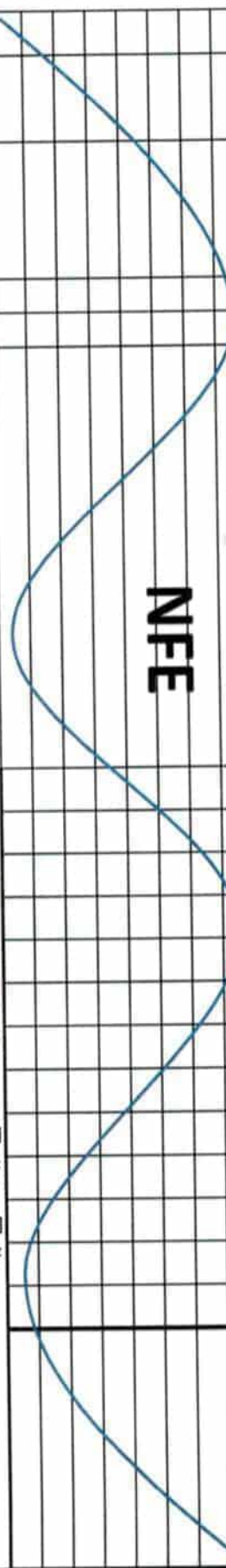
4 oz Glass

No. Type of Containers

BTEX
TPH
Chloride

H254450
Lab Sample ID

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	No. Type of Containers	BTEX	TPH	Chloride
S	7/22/2025	1030	X		CFS-13	2.0	2.5	1	X	X	X
S	7/22/2025	1038	X		CFS-14	4.5	5.0	1	X	X	X
S	7/22/2025	1052	X		CFS-15	4.5	5.0	1	X	X	X



TURNAROUND TIME: Normal 48-Hour Rush 24-Hour Rush

Requested by (Signature): [Signature] Date: 7/23/25 Time: 1451

Requested by (Signature): [Signature] Date: [] Time: []

Requested by (Signature): [Signature] Date: [] Time: []

Requested by (Signature): [Signature] Date: [] Time: []

Customer: VCA, 8014141
 VCA, 8014141
 200 West 10th Street
 Lubbock, Texas 79424
 806-300-0140

Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

Bill To: Terracon

e-mail results to:
austin.worley@terracon.com
joseph.guesnier@terracon.com
daniel.pavelka@terracon.com

October 09, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: AVALON CTB # 1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NCDS (2') (H256194-01)

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	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/06/2025	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	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.5 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

 Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: ECDS (2') (H256194-02)

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	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/06/2025	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	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: AVALON CTB # 1
 Project Number: KH247058
 Project Location: XTO - EDDY CO NM

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WCDS (2') (H256194-03)

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	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/06/2025	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	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.6 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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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 **BILL TO** P.O. #: 1056011001 ANALYSIS REQUEST

Project Manager: Austin Worley Company: XTO Energy Address: 5847 50th Street Attn: Colton Brown

City: Lubbock State: TX zip: 79424 Address: City: Carlsbad

Phone #: (806) 300-0140 Fax #: Project Owner: XTO Energy City: Carlsbad

Project #: 4H247058 Project Name: Avalon CTB #1 State: NM Zip: City: Carlsbad

Project Location: Eddy County, NM Project Name: Avalon CTB #1 State: NM Zip: City: Carlsbad

Sample Name: Austin Worley Project Location: Eddy County, NM State: NM Zip: City: Carlsbad

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<u>HASL044</u>	<u>NCDS (2')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>10/2/25</u>	<u>10:05</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>ECDS (2')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>10/2/25</u>	<u>10:20</u>	<u>X</u>	<u>X</u>	
	<u>WCDS (2')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>10/2/25</u>	<u>10:40</u>	<u>X</u>		

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Relinquished By: Austin Worley Date: 10/5/25 Received By: APR...

Time: 10:53:34 Time: 10:53:34

Delivered By: (Circle One) UPS Observed Temp. °C: 3.8 Sample Condition: Cool Intact CHECKED BY: APD

Sampler - UPS - Bus - Other: 4.1 Corrected Temp. °C: 4.1 Turnaround Time: Standard Bacteria (only) Sample Condition: Cool Intact

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

Closure Documentation
Avalon CTB #1 | Eddy County, New Mexico
October 14, 2025 | Terracon Project No. KH247058
NMOCD Reference ID: nAPP2432555180



APPENDIX G – 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, XTO Energy.

Additional Scope Limitations

The development of this Closure Report is based on information provided by XTO Energy 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 XTO Energy. 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 XTO Energy, 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 XTO Energy and Terracon. Any unauthorized distribution or reuse is at XTO Energy sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and XTO Energy 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 XTO Energy and all relying parties unless otherwise agreed in writing.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 560464

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2432555180
Incident Name	NAPP2432555180 AVALON CTB #1 (B6233) @ FAPP2126044262
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2126044262] Avalon CTB #1 (B6233)

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	AVALON CTB #1 (B6233)
Date Release Discovered	11/19/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 9 BBL Recovered: 4 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 560464

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a 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: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 03/06/2026
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Action 560464

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 100 and 500 (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	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 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
<i>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.</i>	
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)	1230
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	149.9
GRO+DRO (EPA SW-846 Method 8015M)	135
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	12/05/2024
On what date will (or did) the final sampling or liner inspection occur	04/08/2025
On what date will (or was) the remediation complete(d)	04/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2250
What is the estimated volume (in cubic yards) that will be remediated	83

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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Action 560464

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEvnNotifications@exxonmobil.com Date: 03/06/2026
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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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Action 560464

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Additional remediation could not be completed due to restricted access beneath and between on-site tanks, flow lines, electrical control sheds, and other equipment the risk of compromising the structural integrity of the foundations.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2250
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	83
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	fAPP2126044262 Avalon CTB #1 (B6233)
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 03/06/2026

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Action 560464

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	510592
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/02/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 560464

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 560464
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of (Refer to Exhibit 8) is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	3/16/2026