

Cotton Draw Unit 18 CTB 1

OCD Incident # nAPP2328062321

Date: 10.7.2023

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>39</u>	<u>101.000</u>	<u>0.021</u>
Cubic Feet of Soil Impacted		<u>82.719</u>
Barrels of Soil Impacted		<u>14.74</u>
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		<u>2.21</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		<u>2.21</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>39</u>	<u>101.000</u>	<u>0.042</u>
Standing fluid		<u>29.424</u>
<b>Total fluids spilled</b>		<b><u>31.636</u></b>



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Carlsbad, New Mexico 88220  
Tel. 432-701-2159  
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June 20, 2024

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

**Re: Deferral Request**  
**Cotton Draw Unit 18 CTB 1**  
**Devon Energy Production Company**  
**Site Location: Unit L, Section 18, Township 25S, Range 32E**  
**(Lat 32.12549751°, Long -103.7196956°)**  
**Lea County, New Mexico**  
**Incident ID: nAPP2328062321**

## **Introduction**

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Deferral Request for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment and sample analysis results for the Cotton Draw Unit 18 CTB 1 (Site). The Site is in Unit Letter L, Section 18, of Township 25 South and Range 32 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.12549751° N latitude and 103.7196956° W longitude. The Site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

## **Background**

Based on the Release Notification C-141 Form, the release was discovered on October 7<sup>th</sup>, 2023. The release was a result of an equipment failure on a valve. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately ten (10) barrels (bbls) of crude oil and twenty-one (21) bbls of produced water of which five (5) bbls of crude oil and zero (0) bbls of produced water were recovered for an approximate net loss of five (5) bbls of crude oil and twenty-one (21) bbls of produced water. The release area is shown in Figure 3.

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### **Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there is one known water source within a ½-mile radius of the location. According to NMOSE, the closest known water well (C-04618) source is located 0.2 miles southeast of the Site and was drilled in 2022 to 55 feet below ground surface (ft bgs) with no ground water encountered. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a Low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is attached to the report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

*General Site Characterization and Groundwater:*

Site Characterization	Average Groundwater Depth (ft)
Low Karst	>55

*Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)*

Regulatory Standard	Chloride	TPH (GRO+DRO+MR)	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

### **Initial Soil Delineation Assessment Summary and Findings**

On November 15<sup>th</sup>, 2023, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Four (4) vertical sample points (V-1 through V-4) and ten (10) horizontal sample points (H-1 through H-10) were installed within the release area to characterize the impacts. Soil samples were collected at half-foot (0.5) to one (1) foot (ft) intervals from depths ranging from zero (0) to five and a half (5.5) ft below ground surface (bgs) with a geotechnical hand auger. The hand auger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination. Sample locations are shown in Figure 3.

Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, NM for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Method 8021B), total petroleum hydrocarbons (TPH) (EPA method 8015 modified), and chloride (method SM4500Cl-B).

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The analytical results indicated that TPH, Benzene and BTEX concentrations exceeded the NMOCD regulatory limits in the areas of V-1 through V-4 at depths ranging from zero (0) to five and a half (5.5) ft bgs. Sample H-9 had elevated TPH concentrations at a depth of zero (0) to a half (0.5) ft bgs.

On January 17<sup>th</sup>, 2023, NTGE returned to the Site to further delineate the extent of the spill. Three (3) test pit sample points (TP-1 through TP-3) were installed within the release area and one (1) horizontal sample point (H-9A) adjacent to the area of concern. Soil samples were collected at depths ranging from one (1) to twelve (12) ft bgs with a backhoe. An additional delineation sample (H-9A) was collected at a depth of zero (0) to half (0.5) ft bgs. Soil samples were submitted to Cardinal Laboratories in Hobbs, NM for analysis of BTEX, TPH, and chloride. The analytical results indicated that TPH, Benzene and BTEX concentrations exceeded NMOCD regulatory limits from Table 3.1 in the areas of TP-1 through TP-3 at depths ranging from one (1) to eight (8) ft bgs.

Analytical results are included in Table 1, while soil boring locations are shown in Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.

### **Remedial Action Activities and Confirmation Sampling**

Based on the analytical results, Devon proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above regulatory limits. The area of V-1 was excavated to a depth of six (6) ft bgs and the areas of V-2 and V-3 were excavated to depths ranging from half (0.5) ft to nine (9) ft bgs.

On June 5<sup>th</sup>, 2024, NTGE was on Site to collect a total of fourteen (14) base composite confirmation samples (CS-1 through CS-14) and twenty-seven (27) sidewall composite confirmation samples (SW-1 through SW-27) to ensure impacted soil was removed. The confirmation samples were taken as five (5) point composite samples and represent an area no greater than 200 square feet to comply with NMAC 19.15.23.12 and 19.15.29.13. Furthermore, a total of five (5) deferral samples from two (2) sample locations (DS-1 @ depths 6-6.5, 7-7.5, and 8-8.5 ftbgs and DS-2 @ depths 1-1.5 and 2-2.5 ft bgs) were collected with a geotechnical hand auger to delineate the deferral area. Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico and analyzed for BTEX (EPA Method 8021B), TPH (EPA method 8015 modified), and chloride (method SM4500-C1-B). Analytical results indicated that all samples were below NMOCD regulatory criterion for the Site. Laboratory reports containing analytical methods and chain-of-custody documents are attached and the final sampling map is shown in Figure 4 and deferral map is Shown in Figure 5.

### **Deferral Request**

Devon personnel have expressed that the excavation of the areas surrounding V-4 and H-9 is not feasible as the result of associated safety concerns in encroaching the infrastructure (i.e., separators and associated pipelines) around the excavation and the associated safety concerns without encroaching and destabilizing the infrastructure. The infrastructure in and around the excavation is shown in Figure 5.

NTGE formally request a deferral for incident nAPP2328062321 to address the remaining soil impacts (V-4 and H-3 through H-9) at the time of facility decommissioning or when infrastructure

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modifications are made in the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial action report documenting excavation expansion and confirmation sampling activities will be prepared following completion of future work.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Project Manager

Attachments:

Table  
Figures  
Site Characterization Documentation  
Photographic Log  
Laboratory Reports and Chain-of-Custody Documents

## **TABLES**

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Table 1  
 Summary of Soil Analytical Data - Delineation Samples  
 Cotton Draw Unit 18 CTB 1  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Table 1 Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC													
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Vertical Delineation Samples													
V-1	11/15/2023	0-0.5'	17	<0.500	30.5	206	253	6490	13000	19490	2330	21820	32
	11/15/2023	1-1.5'	18.3	125	25.3	181	350	7220	8780	16000	1190	17190	<16.0
	11/15/2023	2-2.5'	33.8	188	35	254	511	9830	11800	21630	15560	37190	<16.0
	11/15/2023	3-3.5'	109	394	61.3	436	1000	24900	29100	54000	4250	58250	32
	11/15/2023	4-4.5'	27	126	23.5	170	346	5580	7580	13160	1050	14210	48
V-2	11/15/2023	5-5.5'	41.8	196	34.7	244	516	10000	12600	22600	1780	24380	64
	11/15/2023	0-0.5'	17.7	114	25.7	187	344	6040	19400	25440	3550	28990	64
	11/15/2023	1-1.5'	27.5	140	25.4	187	378	7430	9400	16830	1360	18190	16
	11/15/2023	2-2.5'	3.74	28.9	6.47	46.9	86	1500	2490	3990	388	4378	32
	11/15/2023	3-3.5'	7.57	55.5	13.2	99	175	2000	3830	5830	593	6423	80
V-3	11/15/2023	4-4.5'	55.5	225	35.6	263	579	11000	13300	24300	1970	26270	112
	11/15/2023	5-5.5'	75.7	291	45.3	326	737	20100	22400	42500	3380	45880	96
	11/15/2023	0-0.5'	10.7	69.8	17.5	134	232	5110	16500	21610	2860	24470	32
	11/15/2023	1-1.5'	13.6	62.9	12.1	85.6	174	2600	3490	6090	493	6583	16
	11/15/2023	2-2.5'	50.6	237	43.6	310	641	12400	14000	26400	2200	28600	16
V-4	11/15/2023	3-3.5'	40.4	206	41.5	293	581	12300	14500	26800	2360	29160	32
	11/15/2023	4-4.5'	33.5	172	33.4	250	489	7630	10500	18130	1760	19890	32
	11/15/2023	5-5.5'	23.5	137	27.3	214	401	8670	10500	19170	1680	20850	48
	11/15/2023	0-0.5'	8.27	78.4	20.3	154	261	4910	11400	16310	2120	18430	16
	11/15/2023	1-1.5'	28.9	169	32.6	235	465	8880	10400	19280	1640	20920	32
TP-1	1/17/2024	2-2.5'	11.8	86	17	126	241	5660	7710	13370	1130	14500	32
	1/17/2024	3-3.5'	<2.0	23.6	6.82	46.7	77.1	1740	2770	4510	443	4953	32
	1/17/2024	4-4.5'	13.7	84.9	20.5	135	254	4580	6720	11300	1230	12530	48
	1/17/2024	5-5.5'	15.7	87.5	20	134	257	3920	5230	9150	895	10045	16
	1/17/2024	1'	12.9	83.2	22.5	148	266	4290	6160	10450	736	11186	16
TP-2	1/17/2024	2'	42.1	163	36.9	234	476	7320	7890	15210	1140	16350	<16.0
	1/17/2024	3'	53.6	192	40.6	257	544	7520	9080	16600	1340	17940	32
	1/17/2024	4'	14.9	67.8	16.9	109	209	2780	4050	6830	780	7610	48
	1/17/2024	5'	0.837	7.94	2.8	20.3	31.9	456	852	1308	145	1453	80
	1/17/2024	6'	0.072	0.194	<0.050	0.285	0.551	<10.0	17.6	17.6	<10.0	17.6	80
	1/17/2024	2'	41.5	140	27.9	178	387	4610	4770	9380	688	10068	16
	1/17/2024	4'	47.3	175	38.8	244	505	6650	7210	13860	1150	15010	96
	1/17/2024	5'	30	118	28	178	354	5950	7470	13420	1140	14560	80
	1/17/2024	6'	81.2	297	60.1	378	816	13900	14200	28100	2070	30170	48
	1/17/2024	7'	49.7	206	44.1	276	576	7010	7200	14210	1170	15380	64
	1/17/2024	8'	41.9	192	45.6	290	570	6580	7810	14390	1270	15660	32
	1/17/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.1	75.1	<10.0	75.1	80
1/17/2024	10'	<0.050	<0.050	0.071	1.09	1.16	47.4	318	365.4	35.9	401.3	96	
1/17/2024	11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.2	58.2	<10.0	58.2	112	
1/17/2024	12'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	68.6	68.6	<10.0	68.6	48	
TP-3	1/17/2024	2'	19.6	79.5	18.7	96.9	215	3270	3680	6950	568	7518	16
	1/17/2024	4'	70.2	261	53.4	337	722	9840	11000	20840	1610	22450	32
	1/17/2024	6'	0.111	0.377	0.131	0.991	1.61	18.6	80.2	98.8	<10.0	98.8	64

Table 1  
 Summary of Soil Analytical Data - Delineation Samples  
 Cotton Draw Unit 18 CTB 1  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)	
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (C6-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (C6-C35) (mg/kg)		
								Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC						
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg	
Horizontal Delineation Samples														
H-1	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16
H-2	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-3	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16
H-4	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-5	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32
H-6	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58	58	28.5	86.5	48	
H-7	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	
H-8	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15	15	<10.0	15	16	
H-9	11/15/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	374	374	137	511	80	
H-9A	1/17/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	
H-10	11/15/2023	0-0.5'	0.068	0.154	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	

- Notes:
- 1. Values reported in mg/kg
  - 2. < = Value Less Than Reporting Limit (RL)
  - 3. Bold indicates Analyte Detected
  - 4. BTEX analyses by EPA Method SW 8021B
  - 5. TPH analyses by EPA Method SW 8015 Mod.
  - 6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
  - 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
  - 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
  - 9. --- Not Analyzed

SP 1 Sample Point Excavated

Table 2  
 Summary of Soil Analytical Data - Confirmation Samples  
 Cotton Draw Unit 18 CTB 1  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (C6-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (C6-C35) (mg/kg)	
								Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC					
10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg			
<b>Base Confirmation Samples</b>													
CS-1	6/5/2024	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-2	6/5/2024	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-3	6/5/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-4	6/5/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-5	6/5/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-6	6/5/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-7	6/5/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-8	6/5/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-9	6/5/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-10	6/5/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS-11	6/5/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-12	6/5/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-13	6/5/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-14	6/5/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
<b>Horizontal Delineation Samples</b>													
SW-1	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-2	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-3	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-4	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-5	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-6	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-7	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-8	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-9	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-10	6/5/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-11	6/5/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-12	6/5/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-13	6/5/2024	3-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-14	6/5/2024	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-15	6/5/2024	3-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-16	6/5/2024	3-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-17	6/5/2024	3-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-18	6/5/2024	3-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-19	6/5/2024	6-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-20	6/5/2024	6-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-21	6/5/2024	6-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-22	6/5/2024	6-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-23	6/5/2024	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-24	6/5/2024	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-25	6/5/2024	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-26	6/5/2024	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-27	6/5/2024	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Table 2  
 Summary of Soil Analytical Data - Confirmation Samples  
 Cotton Draw Unit 18 CTB 1  
 Devon Energy Production Company  
 Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (C6-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (C6-C35) (mg/kg)	
								Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC					
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Deferral Map													
DS-1	6/5/2024	6-6.5'	<0.050	<b>0.052</b>	<b>0.069</b>	<b>0.647</b>	<b>0.769</b>	<b>14.8</b>	<b>137</b>	<b>151.8</b>	<b>10.1</b>	<b>161.9</b>	<16.0
	6/5/2024	7-7.5'	<0.050	<0.050	<0.050	0.212	<0.300	<b>16.2</b>	<b>222</b>	<b>238.2</b>	<b>20.2</b>	<b>258.4</b>	<16.0
	6/5/2024	8-8.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>48</b>
DS-2	6/5/2024	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	6/5/2024	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

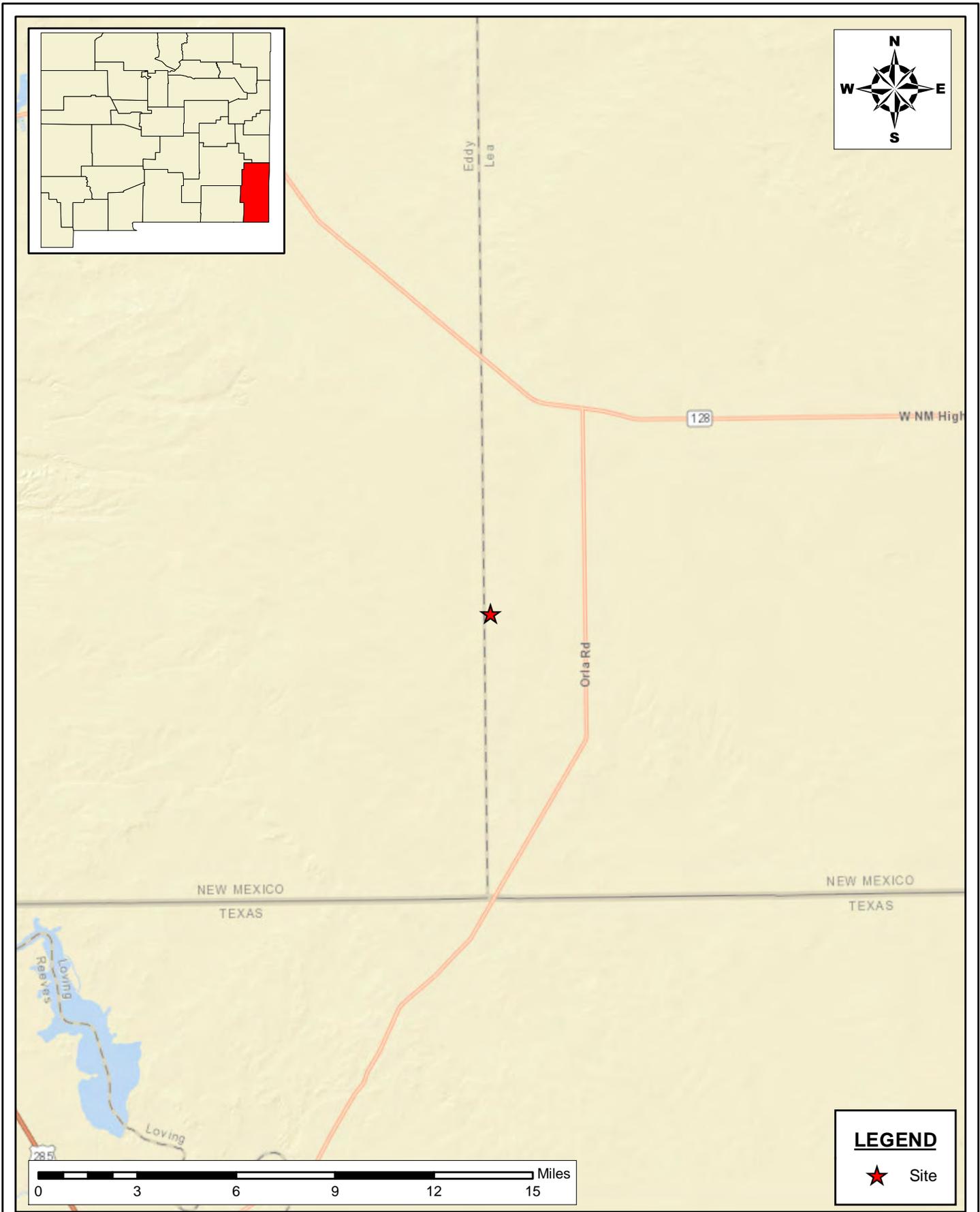
- 1. Values reported in mg/kg
- 2. < = Value Less Than Reporting Limit (RL)
- 3. Bold indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. --- Not Analyzed

~~SP-1~~ Sample Point Excavated

## **FIGURES**

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Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\2023 PROJECTS\DEVON\RSC\237955 - Cotton Draw Unit 18 CTB 1\7 - Figures\GIS\Figure\_1\_SL.mxd



**SITE LOCATION MAP**  
**DEFERRAL REQUEST**  
 DEVON ENERGY PRODUCTION CORPORATION  
 COTTON DRAW UNIT 18 CTB 1  
 LEA COUNTY, NEW MEXICO

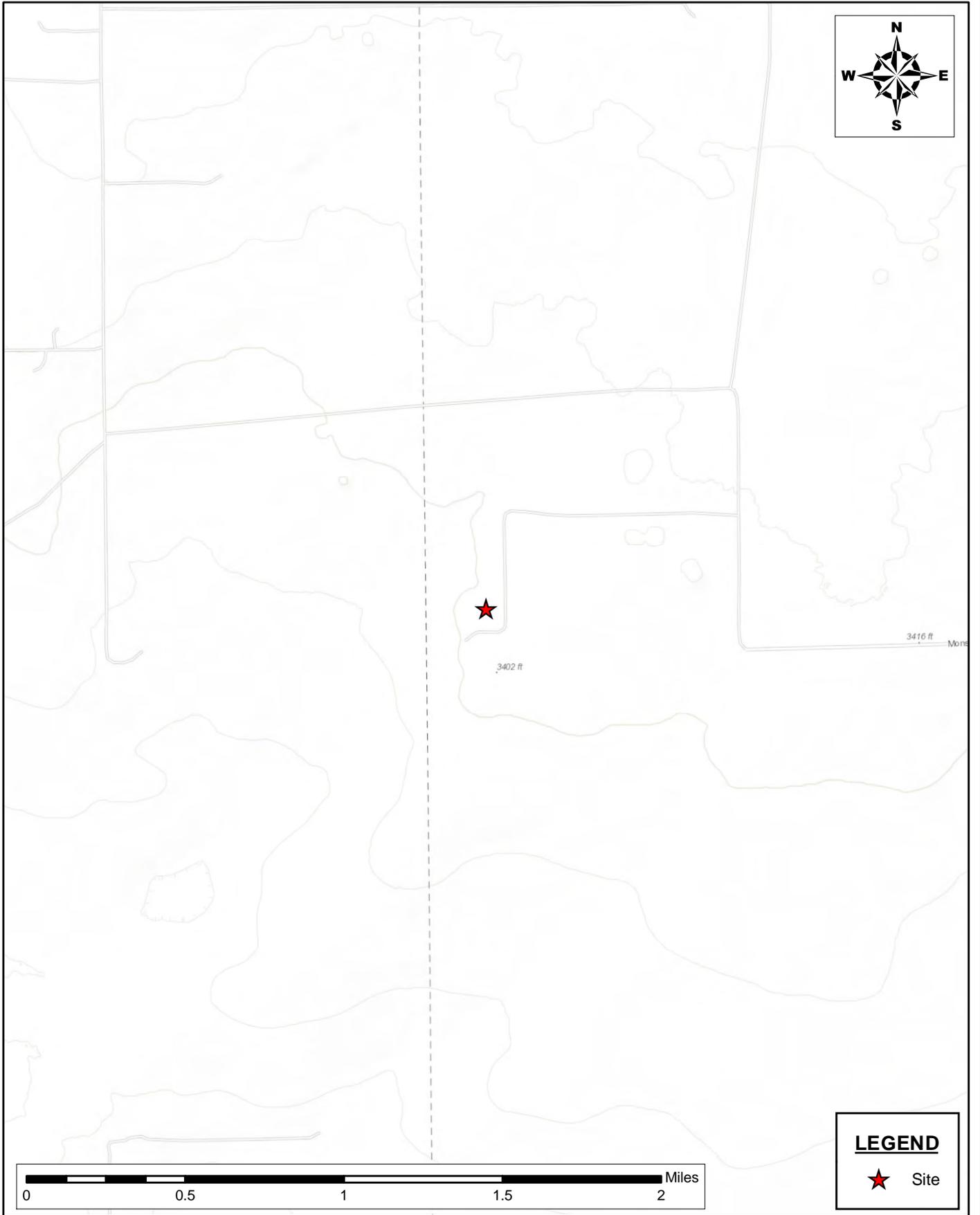
  
**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenviromental.com

**NOTES:**  
 1. Base Image: ESRI Maps & Data 2013  
 2. Map Projection: NAD 1983

DRAWING NUMBER:  
**FIGURE 1**  
 SHEET NUMBER:  
**1 of 1**

SCALE: As Shown    Date: 11/13/2023    PROJECT #: 237955

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\2023 PROJECTS\DEVON\NRSC\237955 - Cotton Draw Unit 18 CTB 1\7 - Figures\GIS\Figure\_2\_SA.mxd



**TOPOGRAPHIC MAP  
DEFERRAL REQUEST**  
 DEVON ENERGY PRODUCTION CORPORATION  
 COTTON DRAW UNIT 18 CTB 1  
 LEA COUNTY, NEW MEXICO

**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenviromental.com



**NOTES:**

- 1. Base Image: ESRI Maps & Data 2013
- 2. Map Projection: NAD 1983

DRAWING NUMBER:

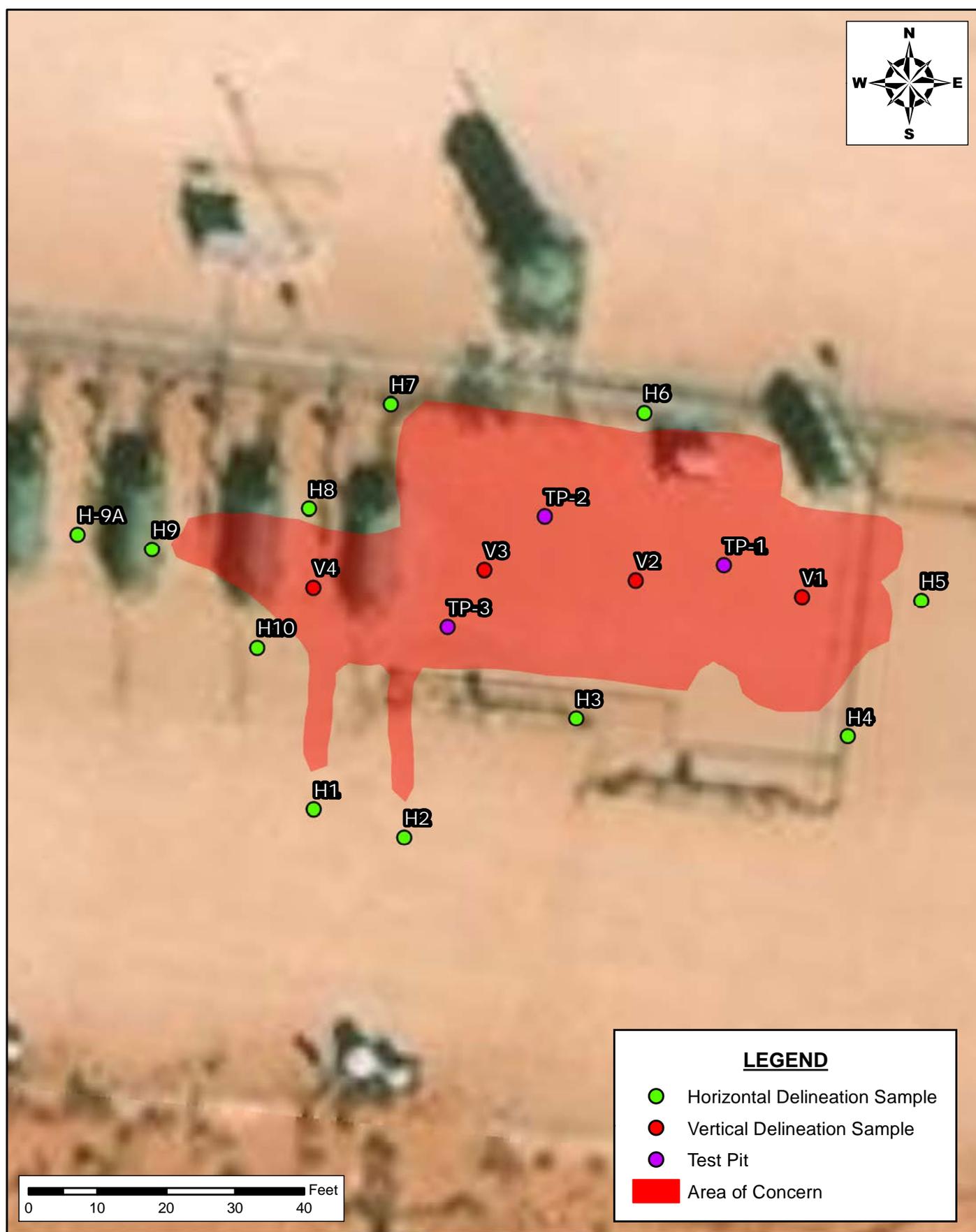
**FIGURE 2**

SHEET NUMBER:

**1 of 1**

SCALE: As Shown    Date: 11/13/2023    PROJECT #: 237955

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\2024 PROJECTS\DEVON\NRS\C237955 - Cotton Draw Unit 18 CTB 117 - Figures\GIS\Figure\_3\_Closure Map.mxd



**LEGEND**

- Horizontal Delineation Sample
- Vertical Delineation Sample
- Test Pit
- Area of Concern

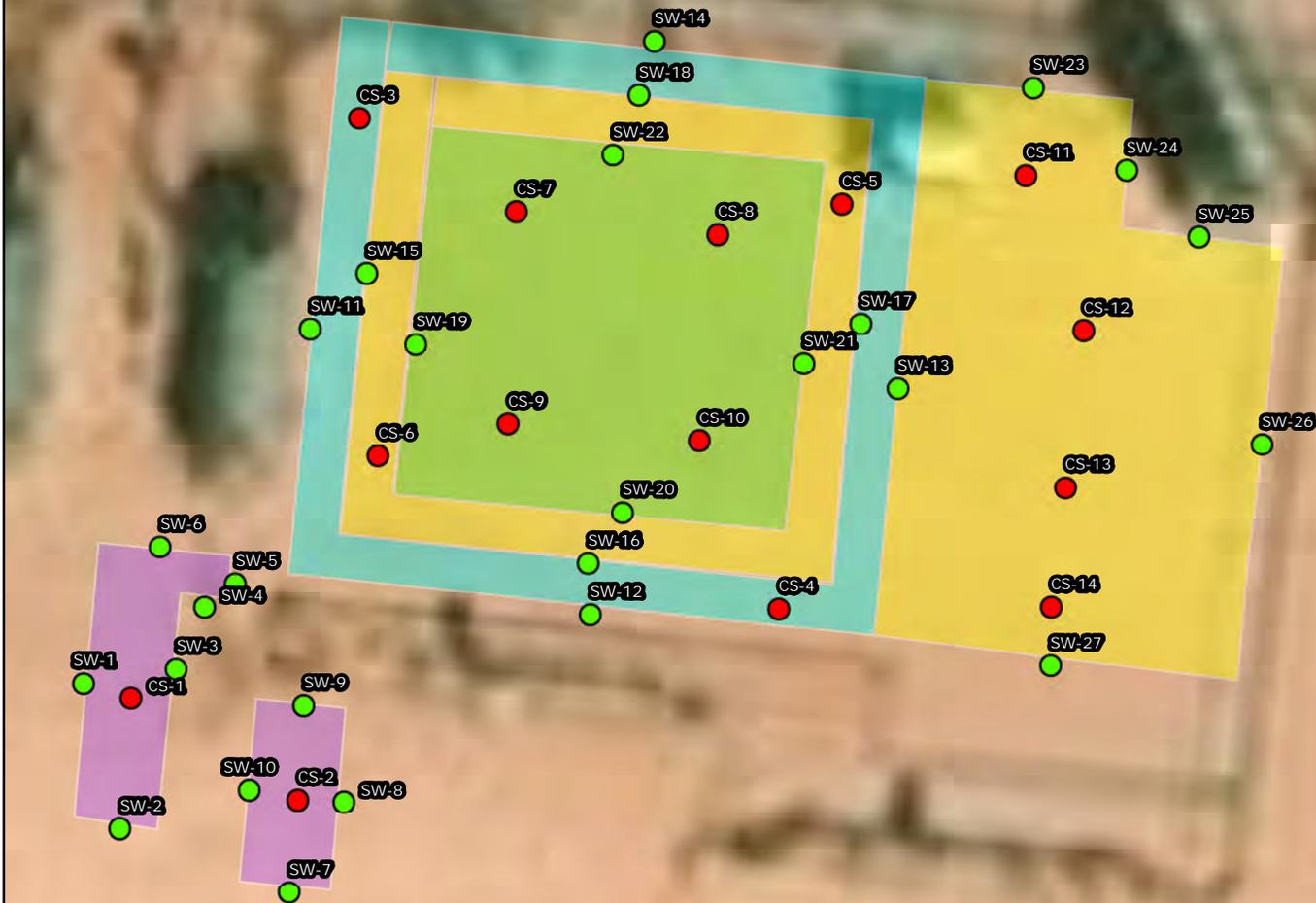
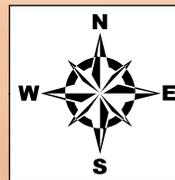
**SITE ASSESSMENT SAMPLING MAP  
DEFERRAL REQUEST**  
 DEVON ENERGY PRODUCTION COMPANY  
 COTTON DRAW UNIT 18 CTB 1  
 LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN    DATE: 02/06/2024    PROJECT #: 237955

  
**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenvironmental.com

**NOTES:**  
 1. Base Image: ESRI Maps & Data 2017  
 2. Map Projection: NAD 1983

DRAWING NUMBER:  
**FIGURE 3**  
 SHEET NUMBER:  
**1 of 1**



**LEGEND**

- Base Confirmation Sample
- Sidewall Confirmation Sample
- 6 ft Excavation
- 3 ft Excavation
- 9 ft Excavation
- 0.5 ft Excavation

Document Path: C:\Users\ntg\gis\New\_Tech\_Global\NTGE - Documents\2024 PROJECTS\DEVON\RSC\237676 - Sirius 17 Fed 3 Battery\7- Figures\GIS\Figure 4.mxd

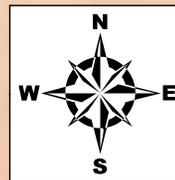
CONFIRMATION SAMPLE MAP  
DEFERRAL REQUEST  
COTTON DRAW UNIT 18 CTB 1  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO

  
**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenvironmental.com

**NOTES:**  
1. Base Image: ESRI Maps & Data 2017  
2. Map Projection: NAD 1983

DRAWING NUMBER:  
**FIGURE 4**  
SHEET NUMBER:  
**1 of 1**

Document Path: C:\Users\ntgegis\New\_Tech\_Global\NTGE - Documents\2024 PROJECTS\DEVONIRSC\237955 - Cotton Draw Unit 18 CTB 1\7 - Figures\GIS\Figure 4.mxd



**LEGEND**

- Delineation Point
- Deferral Area
- 6 ft Excavation
- 3 ft Excavation
- 9 ft Excavation
- 0.5 ft Excavation

DEFERRAL MAP  
 DEFERRAL REQUEST  
 COTTON DRAW UNIT 18 CTB 1  
 DEVON ENERGY PRODUCTION COMPANY  
 LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN    DATE: 06/18/2024    PROJECT #: 237955

**NTG**  
 ENVIRONMENTAL

**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenvironmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:  
**FIGURE 5**

SHEET NUMBER:  
**1 of 1**

## **SITE CHARACTERIZATION INFORMATION**

---

Devon Energy - Cotton Draw Unit 18 CTB 1  
Unit L Sec 18 T25S R32E  
32.12549751° - 103.7196956°  
Lea County, New Mexico

### Site Characterization

-1 water feature within specified distances of 1/2 mile radius

-Low Karst

-NMSEO POD - 55' - Drilled 2022 - 0.20 Miles South-southeast of Site - Sec 18 T25S R32E

Above is a dry environmental borehole installed by Atkins

RRALs due to insufficient groundwater data

-Chlorides 10,000 mg/kg

-TPH GRO+DRO+MRO 2,500 mg/kg

-BTEX 50 mg/kg

-Benzene 10 mg/kg

# National Flood Hazard Layer FIRMette



103°43'30"W 32°7'47"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/31/2023 at 5:06 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



1:6,000

103°42'52"W 32°7'17"N

# OSE POD Location Map

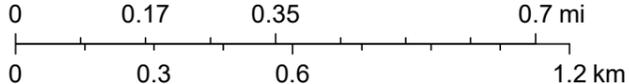


10/31/2023, 4:31:16 PM

GIS WATERS PODs

● Active

1:18,056



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
<b>Well Tag</b>	<b>POD Number</b>	(quarters are smallest to largest)	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	C 04618 POD1		3	4	3	18	25S	32E	621041	3554886

---

<b>Driller License:</b> 1249	<b>Driller Company:</b> ATKINS ENGINEERING ASSOC. INC.	
<b>Driller Name:</b> JACKIE ATKINS		
<b>Drill Start Date:</b> 06/01/2022	<b>Drill Finish Date:</b> 06/01/2022	<b>Plug Date:</b>
<b>Log File Date:</b> 06/10/2022	<b>PCW Rcv Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b>	<b>Depth Well:</b> 55 feet	<b>Depth Water:</b>

---

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

10/31/23 3:32 PM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4618			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 7	SECONDS 25.94	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE		103	43			0.69
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE SW Sec.18 T25S R32S NMPM								
<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/1/2022	DRILLING ENDED 6/1/2022	DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 6/7/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring-HSA	--	--	--	--
<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

USE BY JUN 10 2022 9:22

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)			
FILE NO.	C-4618	POD NO.	1	TRN NO.	725951
LOCATION	25S.32E.18 343		WELL TAG ID NO.	—	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Sand, Fine-grained, poorly graded, 2.5 YR 5/6, Red	Y ✓ N	
	6	24	18	Sand, Fine-grained, poorly graded, unconsolidated, with Caliche 7.5 YR 7/6, Red	Y ✓ N	
	24	55	31	Sand, Fine-grained, poorly graded, unconsolidated, 7.5 YR 7.5/6, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 23 Cotton Draw Unit 507H <div style="text-align: right; color: blue;">05E DTJ JUN 10 2022 AM 9:22</div>
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	6/9/2022
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

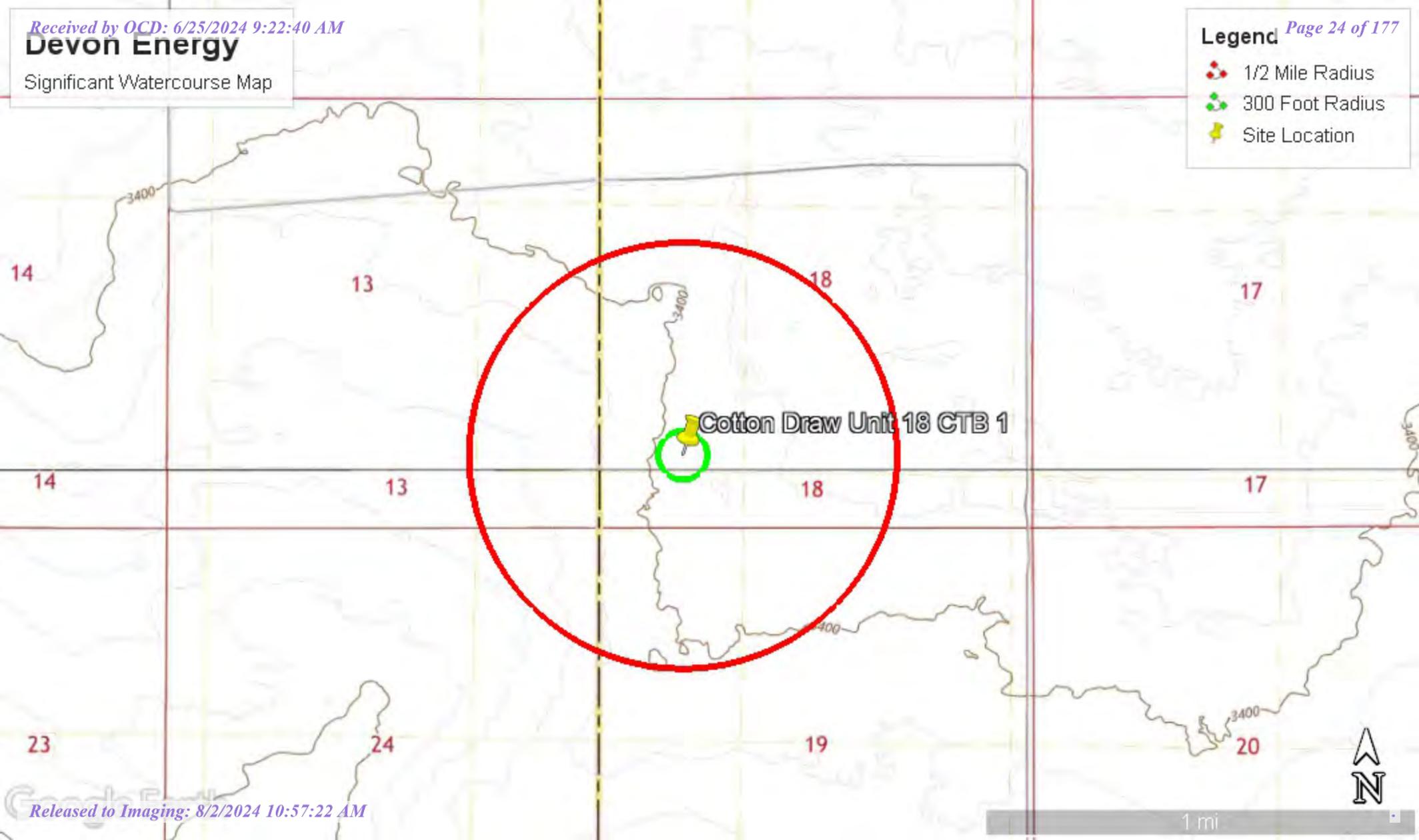
FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-4618	POD NO. 1	TRN NO. 725951	
LOCATION 25S. 32E. 18 343	WELL TAG ID NO. -	PAGE 2 OF 2	

# Devon Energy

## Significant Watercourse Map

**Legend** *Page 24 of 177*

-  1/2 Mile Radius
-  300 Foot Radius
-  Site Location



Cotton Draw Unit 18 CTB 1

# OCD Site Characterization Map



10/31/2023, 3:54:10 PM

Site Location

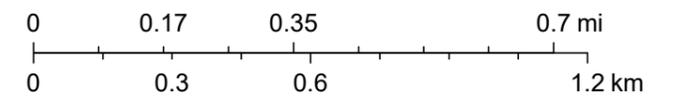
OSE Water PODs

Active

Karst Occurrence Potential

Low

1:18,056



BLM, OCD, New Mexico Tech, USGS, Esri, HERE, Garmin, iPC, Maxar, NM OSE



# Cotton Draw Unit 18 CTB 1



October 31, 2023

### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

**PHOTOGRAPHIC LOG**

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# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Cotton Draw Unit 18 CTB 1

#### Photograph No. 1

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Concern



#### Photograph No. 2

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Concern



#### Photograph No. 3

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Concern



# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Cotton Draw Unit 18 CTB 1

#### Photograph No. 4

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Concern

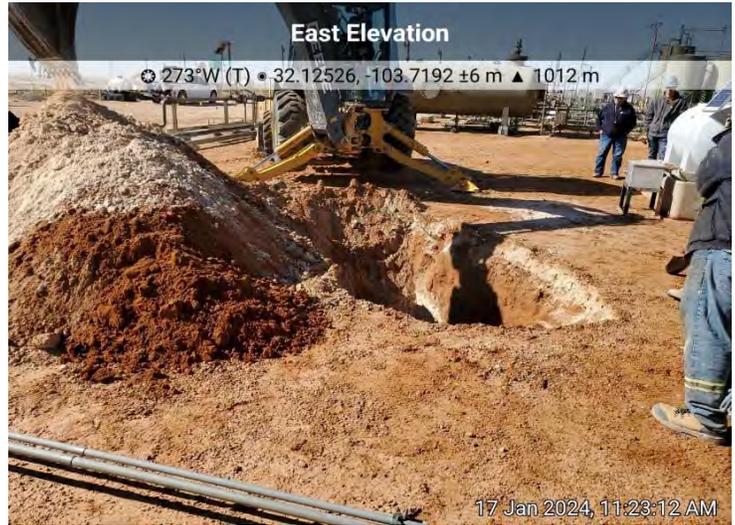


#### Photograph No. 5

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Concern



#### Photograph No. 6

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Concern



# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Cotton Draw Unit 18 CTB 1

#### Photograph No. 7

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Excavation

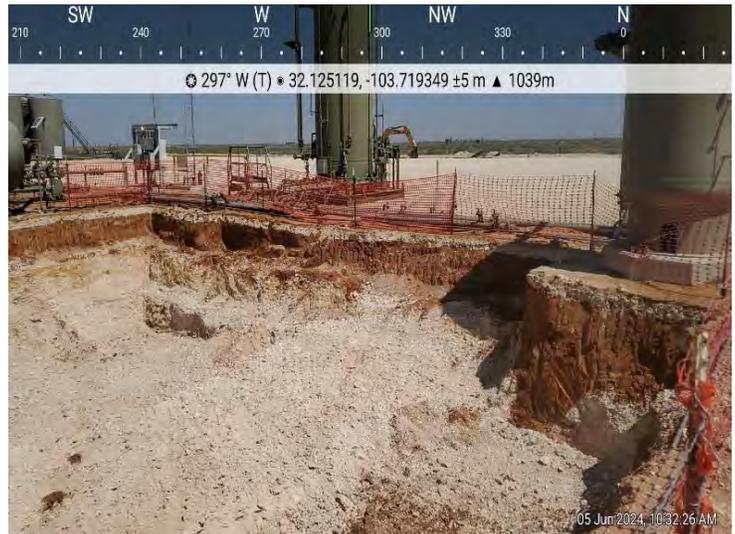


#### Photograph No. 8

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Excavation



#### Photograph No. 9

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Excavation



# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Cotton Draw Unit 18 CTB 1

#### Photograph No. 10

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Excavation

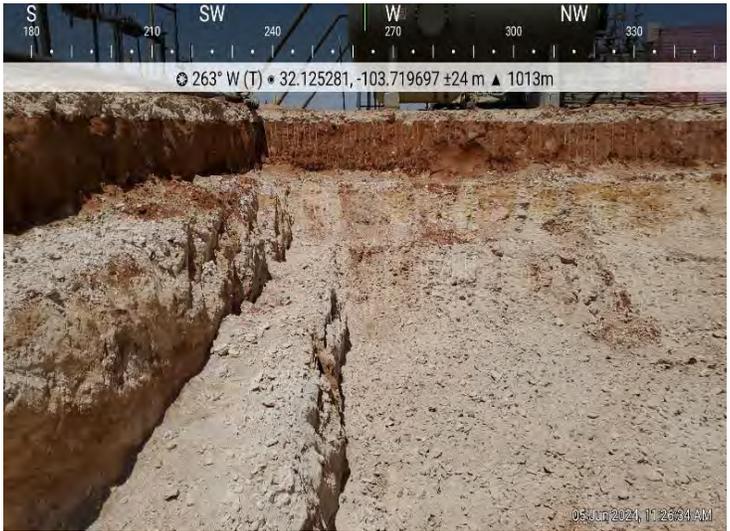


#### Photograph No. 11

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Excavation



#### Photograph No. 12

**Facility:** Cotton Draw Unit 18 CTB 1

**County:** Lea County, New Mexico

**Description:**  
Area of Excavation



**LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**



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

November 29, 2023

ETHAN SESSUMS  
NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND, TX 79706

RE: COTTON DRAW UNIT 18 CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 11/15/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://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      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H 1 ( 0-6" )	H236252-01	Soil	15-Nov-23 10:00	15-Nov-23 14:10
H 2 ( 0-6" )	H236252-02	Soil	15-Nov-23 10:02	15-Nov-23 14:10
H 3 ( 0-6" )	H236252-03	Soil	15-Nov-23 10:04	15-Nov-23 14:10
H 4 ( 0-6" )	H236252-04	Soil	15-Nov-23 10:06	15-Nov-23 14:10
H 5 ( 0-6" )	H236252-05	Soil	15-Nov-23 10:08	15-Nov-23 14:10
H 6 ( 0-6" )	H236252-06	Soil	15-Nov-23 10:10	15-Nov-23 14:10
H 7 ( 0-6" )	H236252-07	Soil	15-Nov-23 10:12	15-Nov-23 14:10
H 8 ( 0-6" )	H236252-08	Soil	15-Nov-23 10:14	15-Nov-23 14:10
H 9 ( 0-6" )	H236252-09	Soil	15-Nov-23 10:16	15-Nov-23 14:10
H 10 ( 0-6" )	H236252-10	Soil	15-Nov-23 10:18	15-Nov-23 14:10
V 1 ( 0-6" )	H236252-11	Soil	15-Nov-23 10:30	15-Nov-23 14:10
V 1 ( 1-1.5' )	H236252-12	Soil	15-Nov-23 10:35	15-Nov-23 14:10
V 1 ( 2-2.5' )	H236252-13	Soil	15-Nov-23 10:40	15-Nov-23 14:10
V 1 ( 3-3.5' )	H236252-14	Soil	15-Nov-23 10:45	15-Nov-23 14:10
V 1 ( 4-4.5' )	H236252-15	Soil	15-Nov-23 10:50	15-Nov-23 14:10
V 1 ( 5-5.5' )	H236252-16	Soil	15-Nov-23 10:55	15-Nov-23 14:10
V 2 ( 0-6" )	H236252-17	Soil	15-Nov-23 11:00	15-Nov-23 14:10
V 2 ( 1-1.5' )	H236252-18	Soil	15-Nov-23 11:05	15-Nov-23 14:10
V 2 ( 2-2.5' )	H236252-19	Soil	15-Nov-23 11:10	15-Nov-23 14:10
V 2 ( 3-3.5' )	H236252-20	Soil	15-Nov-23 11:15	15-Nov-23 14:10
V 2 ( 4-4.5' )	H236252-21	Soil	15-Nov-23 11:20	15-Nov-23 14:10
V 2 ( 5-5.5' )	H236252-22	Soil	15-Nov-23 11:25	15-Nov-23 14:10
V 3 ( 0-6" )	H236252-23	Soil	15-Nov-23 11:30	15-Nov-23 14:10
V 3 ( 1-1.5' )	H236252-24	Soil	15-Nov-23 11:35	15-Nov-23 14:10
V 3 ( 2-2.5' )	H236252-25	Soil	15-Nov-23 11:40	15-Nov-23 14:10
V 3 ( 3-3.5' )	H236252-26	Soil	15-Nov-23 11:45	15-Nov-23 14:10
V 3 ( 4-4.5' )	H236252-27	Soil	15-Nov-23 11:50	15-Nov-23 14:10

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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V 3 ( 5-5.5' )	H236252-28	Soil	15-Nov-23 11:55	15-Nov-23 14:10
V 4 ( 0-6" )	H236252-29	Soil	15-Nov-23 12:00	15-Nov-23 14:10
V 4 ( 1-1.5' )	H236252-30	Soil	15-Nov-23 12:05	15-Nov-23 14:10
V 4 ( 2-2.5' )	H236252-31	Soil	15-Nov-23 12:10	15-Nov-23 14:10
V 4 ( 3-3.5' )	H236252-32	Soil	15-Nov-23 12:15	15-Nov-23 14:10
V 4 ( 4-4.5' )	H236252-33	Soil	15-Nov-23 12:20	15-Nov-23 14:10
V 4 ( 5-5.5' )	H236252-34	Soil	15-Nov-23 12:25	15-Nov-23 14:10

11/29/23 - The client brought to attention that the original report was missing the BTEX for -32, -33 and -34. The analysis was analyzed but was inadvertently excluded from the original report. This is the revised report and will replace the one sent on 11/20/23.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 1 ( 0-6" )  
H236252-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111728	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

Surrogate: 1-Chlorooctane			114 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			137 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 2 ( 0-6" )  
H236252-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3111728	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			128 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 3 ( 0-6" )  
H236252-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111728	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			108 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			127 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
--	---	------------------------------

**H 4 ( 0-6" )  
H236252-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3111728	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

Surrogate: 1-Chlorooctane			110 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			129 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 5 ( 0-6" )  
H236252-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111728	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			127 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 6 ( 0-6" )  
H236252-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>58.0</b>		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>28.5</b>		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			131 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 7 ( 0-6" )  
H236252-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	16-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	16-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3111614	JH	16-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			121 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 8 ( 0-6" )  
H236252-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3111614	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.0</b>		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			121 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 9 ( 0-6" )  
H236252-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	17-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3111614	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>374</b>		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>137</b>		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**H 10 (0-6")  
H236252-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.068</b>		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>0.154</b>		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3111614	JH	17-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3111614	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3111614	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3111546	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.5 %	48.2-134		3111546	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	49.1-148		3111546	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 1 ( 0-6" )  
H236252-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>17.0</b>		0.500	mg/kg	500	3111614	JH	17-Nov-23	8021B	
Toluene*	<0.500		0.500	mg/kg	500	3111614	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>30.5</b>		0.500	mg/kg	500	3111614	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>206</b>		1.50	mg/kg	500	3111614	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>253</b>		3.00	mg/kg	500	3111614	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			202 %	71.5-134		3111614	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>6490</b>		100	mg/kg	10	3111546	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13000</b>		100	mg/kg	10	3111546	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2330</b>		100	mg/kg	10	3111546	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			197 %	48.2-134		3111546	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			201 %	49.1-148		3111546	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 1 (1-1.5')  
H236252-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>18.3</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	QM-07
<b>Toluene*</b>	<b>125</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	QM-07
<b>Ethylbenzene*</b>	<b>25.3</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	QM-07
<b>Total Xylenes*</b>	<b>181</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	QM-07, QR-03
<b>Total BTEX</b>	<b>350</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			124 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>7220</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	QM-07
<b>DRO &gt;C10-C28*</b>	<b>8780</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	QM-07, QR-03
<b>EXT DRO &gt;C28-C36</b>	<b>1190</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	

Surrogate: 1-Chlorooctane			254 %	48.2-134		3111547	MS	16-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			149 %	49.1-148		3111547	MS	16-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 1 ( 2-2.5' )  
H236252-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>33.8</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>188</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>35.0</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>254</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>511</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			123 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>9830</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11800</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1560</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

Surrogate: 1-Chlorooctane			681 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			225 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 1 (3-3.5')  
H236252-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>109</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>394</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>61.3</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>436</b>		30.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>1000</b>		60.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>24900</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>29100</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4250</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			397 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			518 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 1 ( 4-4.5' )  
H236252-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>27.0</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>126</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>23.5</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>170</b>		6.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>346</b>		12.0	mg/kg	2000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			126 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>5580</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7580</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1050</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			221 %	48.2-134		3111547	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			130 %	49.1-148		3111547	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 1 ( 5-5.5' )  
H236252-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>41.8</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>196</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>34.7</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>244</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>516</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>10000</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>12600</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1780</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			218 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			223 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 2 ( 0-6" )  
H236252-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>17.7</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>114</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>25.7</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>187</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>344</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			122 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>6040</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19400</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>3550</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			212 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			388 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 2 ( 1-1.5' )  
H236252-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>27.5</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>140</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>25.4</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>184</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>378</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>7430</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>9400</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1360</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			299 %	48.2-134		3111547	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			163 %	49.1-148		3111547	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 2 ( 2-2.5' )  
H236252-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>3.74</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>28.9</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>6.47</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>46.9</b>		6.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>86.0</b>		12.0	mg/kg	2000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			122 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>1500</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2490</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>388</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			215 %	48.2-134		3111547	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			128 %	49.1-148		3111547	MS	16-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 2 (3-3.5')  
H236252-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>7.57</b>		1.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>55.5</b>		1.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>13.2</b>		1.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>99.0</b>		3.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>175</b>		6.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			135 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>2000</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3830</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>593</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			160 %	48.2-134		3111547	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %	49.1-148		3111547	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 2 ( 4-4.5' )  
H236252-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>55.5</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>225</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>35.6</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>263</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>579</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>11000</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13300</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1970</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			225 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			243 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 2 ( 5-5.5' )  
H236252-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>75.7</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>291</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>45.3</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>326</b>		30.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>737</b>		60.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>20100</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>22400</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>3380</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			1180 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			398 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 3 ( 0-6" )  
H236252-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>10.7</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>69.8</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>17.5</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>134</b>		6.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>232</b>		12.0	mg/kg	2000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			132 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>5110</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>16500</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2860</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			216 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			331 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 3 ( 1-1.5' )  
H236252-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>13.6</b>		1.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>62.9</b>		1.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>12.1</b>		1.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>85.6</b>		3.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>174</b>		6.00	mg/kg	1000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			130 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>2600</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3490</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>493</b>		10.0	mg/kg	1	3111547	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			223 %	48.2-134		3111547	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			142 %	49.1-148		3111547	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 3 ( 2-2.5' )  
H236252-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111716	HM	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>50.6</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>237</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>43.6</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>310</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>641</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			123 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>12400</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>14000</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2200</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			252 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			209 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 3 (3-3.5')  
H236252-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>40.4</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>206</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>41.5</b>		10.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>293</b>		30.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>581</b>		60.0	mg/kg	10000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>12300</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>14500</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2360</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			259 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			214 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 3 ( 4-4.5' )  
H236252-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>33.5</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>172</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>33.4</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>250</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>489</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>7630</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10500</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1760</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			175 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			159 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 3 ( 5-5.5' )  
H236252-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>23.5</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>137</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>27.3</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>214</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>401</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>8670</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10500</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1680</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			188 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			163 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 4 ( 0-6" )  
H236252-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>8.27</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>78.4</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>20.3</b>		2.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>154</b>		6.00	mg/kg	2000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>261</b>		12.0	mg/kg	2000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			128 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>4910</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11400</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2120</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			180 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			182 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 4 ( 1-1.5' )  
H236252-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>28.9</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>169</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>32.6</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>235</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>465</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			122 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>8880</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10400</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1640</b>		100	mg/kg	10	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			184 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			156 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 4 ( 2-2.5' )  
H236252-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>11.8</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Toluene*</b>	<b>86.0</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>17.0</b>		5.00	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>126</b>		15.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>241</b>		30.0	mg/kg	5000	3111615	JH	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			122 %	71.5-134		3111615	JH	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>5660</b>		10.0	mg/kg	1	3111547	MS	17-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7710</b>		10.0	mg/kg	1	3111547	MS	17-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1130</b>		10.0	mg/kg	1	3111547	MS	17-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			270 %	48.2-134		3111547	MS	17-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			147 %	49.1-148		3111547	MS	17-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 4 ( 3-3.5' )  
H236252-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<2.00		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	QM-07, QR-03
Toluene*	<b>23.6</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	QM-07, QR-03
Ethylbenzene*	<b>6.82</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	QM-07, QR-03
Total Xylenes*	<b>46.7</b>		6.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	QM-07, QR-03
Total BTEX	<b>77.1</b>		12.0	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			121 %		71.5-134	3111622	JH/	17-Nov-23	8021B	

**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<b>1740</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	QM-07
DRO >C10-C28*	<b>2770</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	QM-07
EXT DRO >C28-C36	<b>443</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	
Surrogate: 1-Chlorooctane			149 %		48.2-134	3111548	MS	16-Nov-23	8015B	
Surrogate: 1-Chlorooctadecane			100 %		49.1-148	3111548	MS	16-Nov-23	8015B	

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 4 ( 4-4.5' )  
H236252-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>13.7</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Toluene*</b>	<b>84.9</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>20.5</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>135</b>		6.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>254</b>		12.0	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		3111622	JH/	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>4580</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>6720</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1230</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			292 %	48.2-134		3111548	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			122 %	49.1-148		3111548	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**V 4 ( 5-5.5' )  
H236252-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3111729	AC	17-Nov-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>15.7</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Toluene*</b>	<b>87.5</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Ethylbenzene*</b>	<b>20.0</b>		2.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Total Xylenes*</b>	<b>134</b>		6.00	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	
<b>Total BTEX</b>	<b>257</b>		12.0	mg/kg	2000	3111622	JH/	17-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	71.5-134		3111622	JH/	17-Nov-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>3920</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5230</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>895</b>		10.0	mg/kg	1	3111548	MS	16-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			231 %	48.2-134		3111548	MS	16-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			117 %	49.1-148		3111548	MS	16-Nov-23	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111716 - 1:4 DI Water**

<b>Blank (3111716-BLK1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	ND	16.0	mg/kg							
<b>LCS (3111716-BS1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (3111716-BSD1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

**Batch 3111728 - 1:4 DI Water**

<b>Blank (3111728-BLK1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	ND	16.0	mg/kg							
<b>LCS (3111728-BS1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (3111728-BSD1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

**Batch 3111729 - 1:4 DI Water**

<b>Blank (3111729-BLK1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	ND	16.0	mg/kg							
<b>LCS (3111729-BS1)</b>				Prepared & Analyzed: 17-Nov-23						
Chloride	432	16.0	mg/kg	400		108	80-120			

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111729 - 1:4 DI Water**

**LCS Dup (3111729-BSD1)**

Prepared & Analyzed: 17-Nov-23

Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111614 - Volatiles**

**Blank (3111614-BLK1)**

Prepared & Analyzed: 16-Nov-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

**LCS (3111614-BS1)**

Prepared & Analyzed: 16-Nov-23

Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	85.9-128			
m,p-Xylene	4.50	0.100	mg/kg	4.00		112	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.56	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	71.5-134			

**LCS Dup (3111614-BSD1)**

Prepared & Analyzed: 16-Nov-23

Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130	1.96	15.8	
Toluene	2.13	0.050	mg/kg	2.00		106	86-128	2.67	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	85.9-128	2.77	16	
m,p-Xylene	4.60	0.100	mg/kg	4.00		115	89-129	2.15	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125	2.34	16.7	
Total Xylenes	6.71	0.150	mg/kg	6.00		112	88.2-128	2.21	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

**Batch 3111615 - Volatiles**

**Blank (3111615-BLK1)**

Prepared: 16-Nov-23 Analyzed: 17-Nov-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: COTTON DRAW UNIT 18 CTB 1  
Project Number: 237955  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
29-Nov-23 10:23

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111615 - Volatiles****Blank (3111615-BLK1)**

Prepared: 16-Nov-23 Analyzed: 17-Nov-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0586		mg/kg	0.0500		117	71.5-134			

**LCS (3111615-BS1)**

Prepared: 16-Nov-23 Analyzed: 17-Nov-23

Benzene	2.01	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.11	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.34	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.44	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0560		mg/kg	0.0500		112	71.5-134			

**LCS Dup (3111615-BSD1)**

Prepared: 16-Nov-23 Analyzed: 17-Nov-23

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130	1.08	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	1.10	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	85.9-128	0.203	16	
m,p-Xylene	4.37	0.100	mg/kg	4.00		109	89-129	0.706	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125	0.535	16.7	
Total Xylenes	6.48	0.150	mg/kg	6.00		108	88.2-128	0.650	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0558		mg/kg	0.0500		112	71.5-134			

**Batch 3111622 - Volatiles****Blank (3111622-BLK1)**

Prepared &amp; Analyzed: 16-Nov-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0567		mg/kg	0.0500		113	71.5-134			

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111622 - Volatiles**

**LCS (3111622-BS1)**

Prepared & Analyzed: 16-Nov-23

Benzene	1.84	0.050	mg/kg	2.00		92.2	82.8-130			
Toluene	1.98	0.050	mg/kg	2.00		98.8	86-128			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	85.9-128			
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	89-129			
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)

0.0533 mg/kg 0.0500 107 71.5-134

**LCS Dup (3111622-BSD1)**

Prepared & Analyzed: 16-Nov-23

Benzene	1.84	0.050	mg/kg	2.00		91.9	82.8-130	0.348	15.8	
Toluene	2.00	0.050	mg/kg	2.00		99.9	86-128	1.09	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128	0.889	16	
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89-129	1.41	16.2	
o-Xylene	2.01	0.050	mg/kg	2.00		100	86.1-125	1.35	16.7	
Total Xylenes	6.09	0.150	mg/kg	6.00		101	88.2-128	1.39	16.3	

Surrogate: 4-Bromofluorobenzene (PID)

0.0529 mg/kg 0.0500 106 71.5-134

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111546 - General Prep - Organics**

<b>Blank (3111546-BLK1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.2	48.2-134			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148			

<b>LCS (3111546-BS1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	191	10.0	mg/kg	200		95.5	66.4-123			
DRO >C10-C28	187	10.0	mg/kg	200		93.4	66.5-118			
Total TPH C6-C28	378	10.0	mg/kg	400		94.5	77.6-123			
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.3	48.2-134			
Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	49.1-148			

<b>LCS Dup (3111546-BSD1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	188	10.0	mg/kg	200		94.2	66.4-123	1.44	17.7	
DRO >C10-C28	183	10.0	mg/kg	200		91.4	66.5-118	2.23	21	
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	77.6-123	1.83	18.5	
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.9	48.2-134			
Surrogate: 1-Chlorooctadecane	57.9		mg/kg	50.0		116	49.1-148			

**Batch 3111547 - General Prep - Organics**

<b>Blank (3111547-BLK1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	48.2-134			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.5	49.1-148			

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111547 - General Prep - Organics**

<b>LCS (3111547-BS1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	212	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	221	10.0	mg/kg	200		110	66.5-118			
Total TPH C6-C28	433	10.0	mg/kg	400		108	77.6-123			
Surrogate: 1-Chlorooctane	47.9		mg/kg	50.0		95.9	48.2-134			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.5	49.1-148			

<b>LCS Dup (3111547-BSD1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	213	10.0	mg/kg	200		107	66.4-123	0.391	17.7	
DRO >C10-C28	217	10.0	mg/kg	200		109	66.5-118	1.76	21	
Total TPH C6-C28	430	10.0	mg/kg	400		108	77.6-123	0.700	18.5	
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	48.2-134			
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.0	49.1-148			

**Batch 3111548 - General Prep - Organics**

<b>Blank (3111548-BLK1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.8	48.2-134			
Surrogate: 1-Chlorooctadecane	41.1		mg/kg	50.0		82.2	49.1-148			

<b>LCS (3111548-BS1)</b>		Prepared: 15-Nov-23 Analyzed: 16-Nov-23								
GRO C6-C10	189	10.0	mg/kg	200		94.6	66.4-123			
DRO >C10-C28	185	10.0	mg/kg	200		92.7	66.5-118			
Total TPH C6-C28	374	10.0	mg/kg	400		93.6	77.6-123			
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	48.2-134			
Surrogate: 1-Chlorooctadecane	40.7		mg/kg	50.0		81.4	49.1-148			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 29-Nov-23 10:23
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111548 - General Prep - Organics**

**LCS Dup (3111548-BSD1)**

Prepared: 15-Nov-23 Analyzed: 16-Nov-23

GRO C6-C10	185	10.0	mg/kg	200		92.7	66.4-123	2.00	17.7	
DRO >C10-C28	181	10.0	mg/kg	200		90.6	66.5-118	2.21	21	
Total TPH C6-C28	367	10.0	mg/kg	400		91.7	77.6-123	2.10	18.5	
Surrogate: 1-Chlorooctane	42.6		mg/kg	50.0		85.2	48.2-134			
Surrogate: 1-Chlorooctadecane	40.4		mg/kg	50.0		80.7	49.1-148			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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

BILL TO

P.O. #: 21237412

Company: Devon

Attn: Mrs Matthews

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Company Name: NTG Environmental  
Project Manager: Ethan Sessums  
Address: 209 W McKay St.  
City: Carlsbad State: NM zip: 88220  
Phone # (432) 701-2159 Fax #:  
Project #: 237955 Project Owner: Devon  
Project Name: Cotton draw Unit 18 CTB 1  
Project Location: Lea Co., NM  
Sampler Name: Jillian Smiley

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.			
H236252	H1		1			X					11-15-23	10:00	B-TEX
	H2		1									10:02	TPH
	H3		1									10:04	Chloride
	H4		1									10:06	
	H5		1									10:08	
	H6		1									10:10	
	H7		1									10:12	
	H8		1									10:14	
	H9		1									10:16	
	H10		1									10:18	

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Relinquished By: [Signature]  
Date: 11-15-23  
Time: 2:10  
Received By: [Signature]  
Date: 11-15-23  
Time: 10:18

Verbal Result:  Y's  No Add'l Phone #:  
All Results are emailed. Please provide Email address:  
REMARKS:

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:  
Observed Temp. °C: 28.8  
Corrected Temp. °C:  
Sample Condition:  Intact  Cool  Yes  No

Turnaround Time: Standard  Rush   
Thermometer ID #140  
Correction Factor 0°C  
Bacteria (only) Sample Condition:  Cool  Intact  Yes  No





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>NTG Environmental</b> Project Manager: <b>ETHAN SASSUMS</b> Address: <b>209 W McKay St.</b> City: <b>Carlsbad</b> State: <b>NM</b> zip: <b>88220</b> Phone # (432) 701-2159 Fax #: Project #: <b>237955</b> Project Owner: <b>DEVON</b> Project Name: <b>Cotton draw Unit 18 CTB 1</b> Project Location: <b>Lea Co, NM</b> Sampler Name: <b>Jillian Smiley</b>		P.O. #: <b>21237412</b> Company: <b>DEVON</b> Attn: <b>Wes Matthews</b> Address: City: State: zip: Phone #: Fax #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
FOR LAB USE ONLY Lab I.D. <b>H2368524</b> Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS <b>1</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV/		SAMPLING DATE TIME	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder. By Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: <i>[Signature]</i> Date: <b>11-15-23</b> Time: <b>2:10</b> Received By: <i>[Signature]</i> Date: <b>11-15-23</b> Time: <b>11:20</b>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:		REMARKS:	
Delivered By: (Circle One) <b>UPS</b> Observed Temp. °C <b>8</b> Corrected Temp. °C Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i> (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
Form 1000 Rev. 07/11/12		Cardinal cannot accept verbal changes. Please email changes to <a href="mailto:celey.keene@cardinallabsnm.com">celey.keene@cardinallabsnm.com</a>					



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>NTG Environmental</b> Project Manager: <b>ETAN SSSUMS</b> Address: <b>209 W McKay St.</b> City: <b>Carlsbad</b> State: <b>NM</b> zip: <b>88220</b> Phone # (432) 701-2159 Fax #: _____ Project #: <b>237955</b> Project Owner: <b>Devon</b> Project Name: <b>Cotton draw Unit 18 CTB 1</b> Project Location: <b>Lea Co, NM</b> Sampler Name: <b>Jillian Smiley</b>		<b>BILL TO</b> P.O. #: <b>21237412</b> Company: <b>DEVON</b> Attn: <b>Mrs Matthews</b> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ H236252		MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
(G)RAB OR (C)OMP. # CONTAINERS 61		DATE TIME 11-15-23 12:10 12:15 12:20 12:25	
RECEIVED BY: <b>Jillian Smiley</b> DATE: 11-15-23 TIME: 2:10		ANALYSIS REQUEST B-TEX TPH Chloride	
DELIVERED BY: (Circle One) UPS - Bus - Other: _____ Observed Temp. °C: <b>28.2</b> Corrected Temp. °C: _____ Sample Condition: Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) _____ Turnaround Time: _____ Standard Rush <input type="checkbox"/>		REMARKS: Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ Bacteria (only) Sample Condition: Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: _____	

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



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

January 25, 2024

ETHAN SESSUMS  
NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND, TX 79706

RE: COTTON DRAW UNIT 18 CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 01/18/24 9:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://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      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP - 1 1'	H240207-01	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 1 2'	H240207-02	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 1 3'	H240207-03	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 1 4'	H240207-04	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 1 5'	H240207-05	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 1 6'	H240207-06	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 2'	H240207-10	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 4'	H240207-11	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 5'	H240207-12	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 6'	H240207-13	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 7'	H240207-14	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 8'	H240207-15	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 9'	H240207-16	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 10'	H240207-17	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 11'	H240207-18	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 2 12'	H240207-19	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 3 2'	H240207-20	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 3 4'	H240207-21	Soil	17-Jan-24 00:00	18-Jan-24 09:52
TP - 3 6'	H240207-22	Soil	17-Jan-24 00:00	18-Jan-24 09:52
H - 9A 0-0.5'	H240207-25	Soil	17-Jan-24 00:00	18-Jan-24 09:52

01/25/24 - Client added analysis to samples -16 thru -19 (see COC). This is the revised report and will replace the one sent on 01/23/24.

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 1 1'**  
**H240207-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>12.9</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	QM-07, QR-03
<b>Toluene*</b>	<b>83.2</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	QM-07, QR-03
<b>Ethylbenzene*</b>	<b>22.5</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	QM-07, QR-03
<b>Total Xylenes*</b>	<b>148</b>		3.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	QM-07, QR-03
<b>Total BTEX</b>	<b>266</b>		6.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			132 %		71.5-134	4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>4290</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5160</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>736</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			255 %		48.2-134	4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %		49.1-148	4011809	MS	18-Jan-24	8015B	
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\*=Accredited Analyte

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 1 2'**  
**H240207-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>42.1</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>163</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>36.9</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>234</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>476</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			121 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>7320</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7890</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1140</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

Surrogate: 1-Chlorooctane			386 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			158 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
--	---	------------------------------

**TP - 1 3'**  
**H240207-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>53.6</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>192</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>40.6</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>257</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>544</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>7520</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>9080</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1340</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			590 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			171 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 1 4'**  
**H240207-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>14.9</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>67.8</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>16.9</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>109</b>		3.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>209</b>		6.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>2780</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4050</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>780</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			135 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 1 5'**  
**H240207-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.837</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>7.94</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>2.80</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>20.3</b>		0.150	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>31.9</b>		0.300	mg/kg	50	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			193 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>456</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>852</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>145</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.0 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 1 6'**  
**H240207-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.072</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>0.194</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>0.285</b>		0.150	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>0.551</b>		0.300	mg/kg	50	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.3 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011809	MS	19-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>17.6</b>		10.0	mg/kg	1	4011809	MS	19-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011809	MS	19-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		4011809	MS	19-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			119 %	49.1-148		4011809	MS	19-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 2'**  
**H240207-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>41.5</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>140</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>27.9</b>		1.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>178</b>		3.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>387</b>		6.00	mg/kg	1000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			130 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>4610</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4770</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>688</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			237 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 4'**  
**H240207-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>47.3</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>175</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>38.8</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>244</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>505</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>6650</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7210</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1150</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			359 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			166 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 5'**  
**H240207-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>30.0</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>118</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>28.0</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>178</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>354</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>5950</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7470</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1140</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			489 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			145 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 6'**  
**H240207-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4011812	HM	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>81.2</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>297</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>60.1</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>378</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>816</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			124 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>13900</b>		50.0	mg/kg	5	4011809	MS	19-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>14200</b>		50.0	mg/kg	5	4011809	MS	19-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2070</b>		50.0	mg/kg	5	4011809	MS	19-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			704 %	48.2-134		4011809	MS	19-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			332 %	49.1-148		4011809	MS	19-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 7'**  
**H240207-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4011814	AC	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>49.7</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>206</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>44.1</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>276</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>576</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>7010</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7200</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1170</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			352 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			144 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 8'**  
**H240207-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4011814	AC	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>41.9</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>192</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>45.6</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>290</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>570</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			122 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>6580</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7810</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1270</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			382 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			153 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 9'**  
**H240207-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4012408	AC	24-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4012321	JH	23-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4012321	JH	23-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>75.1</b>		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			67.5 %	48.2-134		4012328	MS	24-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			61.7 %	49.1-148		4012328	MS	24-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 10'**  
**H240207-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4012408	AC	24-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Ethylbenzene*	<b>0.071</b>		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>1.09</b>		0.150	mg/kg	50	4012321	JH	23-Jan-24	8021B	
<b>Total BTEX</b>	<b>1.16</b>		0.300	mg/kg	50	4012321	JH	23-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			131 %	71.5-134		4012321	JH	23-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>47.4</b>		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>318</b>		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>35.9</b>		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	

Surrogate: 1-Chlorooctane			62.4 %	48.2-134		4012328	MS	24-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			59.4 %	49.1-148		4012328	MS	24-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 11'**  
**H240207-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4012404	CT	24-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4012321	JH	23-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4012321	JH	23-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>58.2</b>		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			55.7 %	48.2-134		4012328	MS	24-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			49.5 %	49.1-148		4012328	MS	24-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 2 12'**  
**H240207-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4012404	CT	24-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4012321	JH	23-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4012321	JH	23-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4012321	JH	23-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>68.6</b>		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4012328	MS	24-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.6 %	48.2-134		4012328	MS	24-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			64.3 %	49.1-148		4012328	MS	24-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 3 2'**  
**H240207-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4011814	AC	18-Jan-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>19.6</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>79.5</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>18.7</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>96.9</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>215</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>3270</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3680</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>568</b>		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			180 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.4 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 3 4'**  
**H240207-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4011814	AC	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>70.2</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>261</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>53.4</b>		2.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>337</b>		6.00	mg/kg	2000	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>722</b>		12.0	mg/kg	2000	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			123 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>9840</b>		50.0	mg/kg	5	4011809	MS	19-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11000</b>		50.0	mg/kg	5	4011809	MS	19-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1610</b>		50.0	mg/kg	5	4011809	MS	19-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			525 %	48.2-134		4011809	MS	19-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			263 %	49.1-148		4011809	MS	19-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**TP - 3 6'**  
**H240207-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4011814	AC	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>0.111</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Toluene*</b>	<b>0.377</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>0.131</b>		0.050	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>0.991</b>		0.150	mg/kg	50	4011806	JH	18-Jan-24	8021B	
<b>Total BTEX</b>	<b>1.61</b>		0.300	mg/kg	50	4011806	JH	18-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4011806	JH	18-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>18.6</b>		10.0	mg/kg	1	4011809	MS	19-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>80.2</b>		10.0	mg/kg	1	4011809	MS	19-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>&lt;10.0</b>		10.0	mg/kg	1	4011809	MS	19-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.9 %	48.2-134		4011809	MS	19-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		4011809	MS	19-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**H - 9A 0-0.5'**  
**H240207-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4011814	AC	18-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4011806	JH	23-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011806	JH	23-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011806	JH	23-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011806	JH	23-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011806	JH	23-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4011806	JH	23-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011809	MS	18-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.3 %	48.2-134		4011809	MS	18-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %	49.1-148		4011809	MS	18-Jan-24	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011812 - 1:4 DI Water**

<b>Blank (4011812-BLK1)</b>				Prepared & Analyzed: 18-Jan-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4011812-BS1)</b>				Prepared & Analyzed: 18-Jan-24						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (4011812-BSD1)</b>				Prepared & Analyzed: 18-Jan-24						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

**Batch 4011814 - 1:4 DI Water**

<b>Blank (4011814-BLK1)</b>				Prepared & Analyzed: 18-Jan-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4011814-BS1)</b>				Prepared & Analyzed: 18-Jan-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4011814-BSD1)</b>				Prepared & Analyzed: 18-Jan-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

**Batch 4012404 - 1:4 DI Water**

<b>Blank (4012404-BLK1)</b>				Prepared & Analyzed: 24-Jan-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4012404-BS1)</b>				Prepared & Analyzed: 24-Jan-24						
Chloride	448	16.0	mg/kg	400		112	80-120			

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4012404 - 1:4 DI Water**

<b>LCS Dup (4012404-BSD1)</b>				Prepared & Analyzed: 24-Jan-24						
Chloride	432	16.0	mg/kg	400		108	80-120	3.64	20	

**Batch 4012408 - 1:4 DI Water**

<b>Blank (4012408-BLK1)</b>				Prepared & Analyzed: 24-Jan-24						
Chloride	ND	16.0	mg/kg							

<b>LCS (4012408-BS1)</b>				Prepared & Analyzed: 24-Jan-24						
Chloride	448	16.0	mg/kg	400		112	80-120			

<b>LCS Dup (4012408-BSD1)</b>				Prepared & Analyzed: 24-Jan-24						
Chloride	368	16.0	mg/kg	400		92.0	80-120	19.6	20	

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011806 - Volatiles**

**Blank (4011806-BLK1)**

Prepared & Analyzed: 18-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.3	71.5-134			

**LCS (4011806-BS1)**

Prepared & Analyzed: 18-Jan-24

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	85.9-128			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.0	89-129			
o-Xylene	1.96	0.050	mg/kg	2.00		98.1	86.1-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.3	71.5-134			

**LCS Dup (4011806-BSD1)**

Prepared & Analyzed: 18-Jan-24

Benzene	2.28	0.050	mg/kg	2.00		114	82.8-130	11.3	15.8	
Toluene	2.26	0.050	mg/kg	2.00		113	86-128	11.3	15.9	
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	85.9-128	11.4	16	
m,p-Xylene	4.40	0.100	mg/kg	4.00		110	89-129	11.7	16.2	
o-Xylene	2.21	0.050	mg/kg	2.00		110	86.1-125	11.7	16.7	
Total Xylenes	6.61	0.150	mg/kg	6.00		110	88.2-128	11.7	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.7	71.5-134			

**Batch 4012321 - Volatiles**

**Blank (4012321-BLK1)**

Prepared & Analyzed: 23-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4012321 - Volatiles**

**Blank (4012321-BLK1)**

Prepared & Analyzed: 23-Jan-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			

**LCS (4012321-BS1)**

Prepared & Analyzed: 23-Jan-24

Benzene	2.20	0.050	mg/kg	2.00		110	82.8-130			
Toluene	2.22	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.22	0.050	mg/kg	2.00		111	85.9-128			
m,p-Xylene	4.51	0.100	mg/kg	4.00		113	89-129			
o-Xylene	2.20	0.050	mg/kg	2.00		110	86.1-125			
Total Xylenes	6.71	0.150	mg/kg	6.00		112	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			

**LCS Dup (4012321-BSD1)**

Prepared & Analyzed: 23-Jan-24

Benzene	2.17	0.050	mg/kg	2.00		109	82.8-130	1.37	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	0.905	15.9	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	85.9-128	1.03	16	
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	89-129	0.625	16.2	
o-Xylene	2.19	0.050	mg/kg	2.00		109	86.1-125	0.702	16.7	
Total Xylenes	6.67	0.150	mg/kg	6.00		111	88.2-128	0.650	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			

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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011809 - General Prep - Organics**

<b>Blank (4011809-BLK1)</b>		Prepared & Analyzed: 18-Jan-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			

<b>LCS (4011809-BS1)</b>		Prepared & Analyzed: 18-Jan-24								
GRO C6-C10	207	10.0	mg/kg	200		104	66.4-123			
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	414	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	49.1-148			

<b>LCS Dup (4011809-BSD1)</b>		Prepared & Analyzed: 18-Jan-24								
GRO C6-C10	205	10.0	mg/kg	200		102	66.4-123	1.36	17.7	
DRO >C10-C28	192	10.0	mg/kg	200		96.1	66.5-118	7.19	21	
Total TPH C6-C28	397	10.0	mg/kg	400		99.2	77.6-123	4.23	18.5	
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148			

**Batch 4012328 - General Prep - Organics**

<b>Blank (4012328-BLK1)</b>		Prepared: 23-Jan-24 Analyzed: 24-Jan-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.6		mg/kg	50.0		77.2	48.2-134			
Surrogate: 1-Chlorooctadecane	35.2		mg/kg	50.0		70.4	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: COTTON DRAW UNIT 18 CTB 1 Project Number: 237955 Project Manager: ETHAN SESSUMS Fax To:	Reported: 25-Jan-24 15:07
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4012328 - General Prep - Organics**

**LCS (4012328-BS1)**

Prepared: 23-Jan-24 Analyzed: 24-Jan-24

GRO C6-C10	194	10.0	mg/kg	200		97.1	66.4-123			
DRO >C10-C28	190	10.0	mg/kg	200		95.0	66.5-118			
Total TPH C6-C28	384	10.0	mg/kg	400		96.0	77.6-123			
Surrogate: 1-Chlorooctane	40.6		mg/kg	50.0		81.2	48.2-134			
Surrogate: 1-Chlorooctadecane	38.6		mg/kg	50.0		77.2	49.1-148			

**LCS Dup (4012328-BSD1)**

Prepared: 23-Jan-24 Analyzed: 24-Jan-24

GRO C6-C10	197	10.0	mg/kg	200		98.3	66.4-123	1.21	17.7	
DRO >C10-C28	184	10.0	mg/kg	200		92.1	66.5-118	3.11	21	
Total TPH C6-C28	381	10.0	mg/kg	400		95.2	77.6-123	0.903	18.5	
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0		82.8	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: A240207

Page 1 of 3

Project Manager:	Ethan Sessums	Bill to: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	essesums@ntglobal.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	CDU 18 (COTTON DRAW UNIT 18)	Turn Around		Pres. Code	ANALYSIS REQUEST			Preservative Codes	
		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush		BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500		
Project Number:	237955	Due Date:							
Project Location:	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm							
Sampler's Name:	C. Tumas, D. Nikanorov	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
PO #:	21237412	Thermometer ID:		Correction Factor:					
<b>SAMPLE RECEIPT</b>		Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:					
Total Containers:	25								
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters	Sample Comments
TP-1	1	1/17/2024		X		Grab	1	X X X X X	
TP-1	2	1/17/2024		X		Grab	1	X X X X X	
TP-1	3	1/17/2024		X		Grab	1	X X X X X	
TP-1	4	1/17/2024		X		Grab	1	X X X X X	
TP-1	5	1/17/2024		X		Grab	1	X X X X X	
TP-1	6	1/17/2024		X		Grab	1	X X X X X	
TP-1	7	1/17/2024		X		Grab	1	X X X X X	
TP-1	8	1/17/2024		X		Grab	1	X X X X X	
TP-1	9	1/17/2024		X		Grab	1	X X X X X	
TP-2	2	1/17/2024		X		Grab	1	X X X X X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time



Chain of Custody

Work Order No: H340207

Page 2 of 3

Project Manager: Ethan Sessums  
 Company Name: NTG Environmental  
 Address: 209 W McKay St  
 City, State ZIP: Carlsbad, NM 88220  
 Phone: 432-701-2159  
 Email: esessums@ntglobal.com

Bill to: (if different)  
 Company Name: Devon  
 Address:  
 City, State ZIP:

Date Woodall

Work Order Comments  
 PRP  Rowfields  RC  Pertund  
 State of Project:  
 Reporting Level II  Level III  ST/UST  RRP  Level IV   
 Deliverables: EDD  ADAPT  Other:

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST				Preservative Codes	Sample Comments
								BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500			
TP-2	4	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	5	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	6	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	7	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	8	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	9	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	10	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	11	1/17/2024		X	Grab	1	X	X	X	X			
TP-2	12	1/17/2024		X	Grab	1	X	X	X	X			
TP-3	2	1/17/2024		X	Grab	1	X	X	X	X			

Additional Comments: \* customer added analysis to samples 10-17. Spidegurus

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-18-24 0952			



Chain of Custody

Work Order No: H240207

Page 3 of 3

Project Manager:	Ethan Sessums	Bill to: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Pertund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	CDU 18 (COTTON DRAW UNIT 18)	Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes			
		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush												None: NO	DI Water: H <sub>2</sub> O		
Project Number:	237955	Due Date:													Cool: Cool	MeOH: Me		
Project Location:	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm													HCL: HC	HNO <sub>3</sub> : HN		
Sampler's Name:	C. Tumas, D. Nikanorov	Temp Blank:													H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
PO #:	21237412	Wet Ice:													H <sub>3</sub> PO <sub>4</sub> : HP			
<b>SAMPLE RECEIPT</b>		Thermometer ID:													NaHSO <sub>4</sub> : NABIS			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:													Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:													Zn Acetate+NaOH: Zn			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Corrected Temperature:													NaOH+Ascorbic Acid: SAPC			
Total Containers:	25																	
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters										Sample Comments
TP-3	4	1/17/2024		X		Grab	1	BTEX 8021B										
TP-3	6	1/17/2024		X		Grab	1	TPH 8015M ( GRO + DRO + MRO)										
TP-3	8	1/17/2024		X		Grab	1	Chloride 4500										
TP-3	9	1/17/2024		X		Grab	1											HOLD
H-9A	0-0.5	1/17/2024		X		Grab	1											HOLD

Additional Comments:

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		1-18-24 0853			



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---

June 07, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: COTTON DRAW UNIT 18 CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 06/05/24 13:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, written over a light gray rectangular background.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 1 (H243188-01)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 2 (H243188-02)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 3 (H243188-03)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 4 (H243188-04)**

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	06/05/2024	ND	2.08	104	2.00	12.9		
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 5 (H243188-05)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 6 (H243188-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 7 (H243188-07)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 8 (H243188-08)**

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	06/05/2024	ND	2.08	104	2.00	12.9		
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 9 (H243188-09)**

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	06/05/2024	ND	2.08	104	2.00	12.9		
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 10 (H243188-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 11 (H243188-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 12 (H243188-12)**

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	06/05/2024	ND	2.08	104	2.00	12.9		
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 13 (H243188-13)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: CS - 14 (H243188-14)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 1 (H243188-15)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/06/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 2 (H243188-16)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/06/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 3 (H243188-17)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/06/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 4 (H243188-18)**

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	06/05/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/06/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 5 (H243188-19)**

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	06/05/2024	ND	2.08	104	2.00	12.9		
Toluene*	<0.050	0.050	06/05/2024	ND	2.07	104	2.00	10.7		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.95	97.4	2.00	8.90		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.04	101	6.00	8.18		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/06/2024	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	06/06/2024	ND	200	100	200	3.20		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	204	102	200	3.98		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 6 (H243188-20)**

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	06/06/2024	ND	2.08	104	2.00	12.9	
Toluene*	<0.050	0.050	06/06/2024	ND	2.07	104	2.00	10.7	
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.95	97.4	2.00	8.90	
Total Xylenes*	<0.150	0.150	06/06/2024	ND	6.04	101	6.00	8.18	
Total BTEX	<0.300	0.300	06/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	<16.0	16.0	06/06/2024	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	06/06/2024	ND	200	100	200	3.20	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	204	102	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 7 (H243188-21)**

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	06/05/2024	ND	1.81	90.7	2.00	1.97	
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2024	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	06/05/2024	ND	210	105	200	0.345	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	206	103	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 8 (H243188-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97	
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	210	105	200	0.345	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	206	103	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 9 (H243188-23)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 10 (H243188-24)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 11 (H243188-25)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 12 (H243188-26)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 13 (H243188-27)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 14 (H243188-28)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 15 (H243188-29)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 16 (H243188-30)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 17 (H243188-31)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 18 (H243188-32)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 19 (H243188-33)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 20 (H243188-34)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 21 (H243188-35)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 22 (H243188-36)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 23 (H243188-37)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 24 (H243188-38)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/05/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 25 (H243188-39)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/06/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 26 (H243188-40)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2024	ND	1.81	90.7	2.00	1.97		
Toluene*	<0.050	0.050	06/06/2024	ND	1.78	88.9	2.00	1.97		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.88	94.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.63	93.9	6.00	1.93		
Total BTEX	<0.300	0.300	06/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	210	105	200	0.345		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	206	103	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: SW - 27 (H243188-41)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	4.64		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.98	98.8	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.71	95.1	6.00	3.27		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	207	104	200	6.12		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	188	94.1	200	9.58		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager







Chain of Custody

Work Order No: 1243188

Page 3 of 5

Project Manager: Ethan Sessums  
 Company Name: NTG Environmental  
 Address: 209 W McKay St  
 City, State ZIP: Carlsbad, NM 88220  
 Phone: 432-701-2159  
 Email: [essessums@ntglobal.com](mailto:essessums@ntglobal.com)

Bill to: (if different)  
 Company Name: Devon  
 Address:  
 City, State ZIP:

Program: UST/PST  PRP  Brownfields  RRC  Superfund   
 State of Project:  
 Reporting: Level II  Level III  PST/UST  RRP  Level IV   
 Deliverables: EDD  ADAPT  Other:

Project Name:	Cotton Draw Unit 18 CTB 1	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	237955	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	48hr													None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NASO <sub>5</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC				
Project Location:	Lea Co, New Mexico	Due Date:	TAT starts the day received by the lab, if received by 4:30pm																	
Sampler's Name:	Kenny Han	Temp Blank:	Yes (No) Wet Ice: Yes (No)																	
PO #:	21237412	Thermometer ID:	Yes (No) Correction Factor:																	
Received In tact:	Yes (No) N/A	Temperature Reading:	Yes (No) Corrected Temperature:																	
Cooler Custody Seals:	Yes (No) N/A	Sample Custody Seals:	Yes (No) N/A																	
Total Containers:	41																			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments
SW-7		6/5/2024		X		Comp	1	BTEX 8021B												
SW-8		6/5/2024		X		Comp	1	TPH 8015M ( GRO + DRO + MRO)												
SW-9		6/5/2024		X		Comp	1	Chloride 4500												
SW-10		6/5/2024		X		Comp	1													
SW-11		6/5/2024		X		Comp	1													
SW-12		6/5/2024		X		Comp	1													
SW-13		6/5/2024		X		Comp	1													
SW-14		6/5/2024		X		Comp	1													
SW-15		6/5/2024		X		Comp	1													
SW-16		6/5/2024		X		Comp	1													

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time







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

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June 11, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: COTTON DRAW UNIT 18 CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 06/05/24 13:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: DS - 1 6-6.5' (H243191-01)**

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	06/07/2024	ND	1.83	91.5	2.00	4.24	
<b>Toluene*</b>	<b>0.052</b>	0.050	06/07/2024	ND	1.94	97.0	2.00	6.56	
<b>Ethylbenzene*</b>	<b>0.069</b>	0.050	06/07/2024	ND	2.12	106	2.00	11.2	
<b>Total Xylenes*</b>	<b>0.647</b>	0.150	06/07/2024	ND	6.46	108	6.00	13.1	
<b>Total BTEX</b>	<b>0.769</b>	0.300	06/07/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>14.8</b>	10.0	06/06/2024	ND	199	99.5	200	1.76	
<b>DRO &gt;C10-C28*</b>	<b>137</b>	10.0	06/06/2024	ND	180	89.9	200	1.11	
<b>EXT DRO &gt;C28-C36</b>	<b>10.1</b>	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: DS - 1 7-7.5' (H243191-02)**

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	06/07/2024	ND	1.83	91.5	2.00	4.24	
Toluene*	<0.050	0.050	06/07/2024	ND	1.94	97.0	2.00	6.56	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.12	106	2.00	11.2	
<b>Total Xylenes*</b>	<b>0.212</b>	0.150	06/07/2024	ND	6.46	108	6.00	13.1	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>16.2</b>	10.0	06/06/2024	ND	199	99.5	200	1.76	
<b>DRO &gt;C10-C28*</b>	<b>222</b>	10.0	06/06/2024	ND	180	89.9	200	1.11	
<b>EXT DRO &gt;C28-C36</b>	<b>20.2</b>	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: DS - 1 8-8.5' (H243191-03)**

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	06/07/2024	ND	1.83	91.5	2.00	4.24		
Toluene*	<0.050	0.050	06/07/2024	ND	1.94	97.0	2.00	6.56		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.12	106	2.00	11.2		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.46	108	6.00	13.1		
Total BTEX	<0.300	0.300	06/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	199	99.5	200	1.76		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	180	89.9	200	1.11		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: DS - 2 1-1.5' (H243191-04)**

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	06/07/2024	ND	1.83	91.5	2.00	4.24		
Toluene*	<0.050	0.050	06/07/2024	ND	1.94	97.0	2.00	6.56		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.12	106	2.00	11.2		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.46	108	6.00	13.1		
Total BTEX	<0.300	0.300	06/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	199	99.5	200	1.76		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	180	89.9	200	1.11		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	06/05/2024	Sampling Date:	06/05/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW UNIT 18 CTB 1	Sampling Condition:	Cool & Intact
Project Number:	237955	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON ENERGY - LEA CO NM		

**Sample ID: DS - 2 2-2.5' (H243191-05)**

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	06/07/2024	ND	1.83	91.5	2.00	4.24		
Toluene*	<0.050	0.050	06/07/2024	ND	1.94	97.0	2.00	6.56		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.12	106	2.00	11.2		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.46	108	6.00	13.1		
Total BTEX	<0.300	0.300	06/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	199	99.5	200	1.76		
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	180	89.9	200	1.11		
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND						

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **MTGE**

**BILL TO**

**ANALYSIS REQUEST**

Project Manager: **Ethan Sessoms**

P.O. #: **21237412**

Address: **204 W McKay Street**

Company: **Bevon**

City: **Corliss** State: **NM** zip: **88220**

Attn: **Dale Woodall**

Phone #: **254-266-5456** Fax #:

Project #: **237955** Project Owner: **Bevon**

Project Name: **Cotton Draw Unit 18 CRB 1**

Project Location: **Hew Co, NM**

Sampler Name: **Lenny Hew**

Lab I.D. **H2H3191**

Sample I.D. **VH 4/5/24**

FOR LAB USE ONLY	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV	DATE	TIME	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE				
	<b>DS-1</b>		<b>6</b>			<b>X</b>						<b>6/5/24</b>		<b>BTEX</b>
	<b>DS-2</b>		<b>1</b>											<b>TPH</b>
	<b>2-2.5</b>		<b>1</b>											<b>Chloride</b>

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Relinquished By:

Received By: **Schodkiewicz**

Relinquished By:

Received By:

Date: **6/5/24**

Date: **6/5/24**

Time:

Time:

Delivered By: (Circle One)

Observed Temp. °C: **2.0°C**

Sample Condition

Turnaround Time:

Standard **Rush**

Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

CHECKED BY: **SRZ**

Thermometer ID #140

Correction Factor 0°C

Observed Temp. °C

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

QUESTIONS

Action 357078

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357078
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2328062321
Incident Name	NAPP2328062321 COTTON DRAW UNIT 18 CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2130731960] COTTON DRAW UNIT 18 CTB 1

**Location of Release Source**

Please answer all the questions in this group.

Site Name	COTTON DRAW UNIT 18 CTB 1
Date Release Discovered	10/07/2023
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Valve   Crude Oil   Released: 10 BBL   Recovered: 5 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Valve   Produced Water   Released: 21 BBL   Recovered: 0 BBL   Lost: 21 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	A hole developed on a valve causing the spill. The leak was isolated and stopped. All accumulated surface fluids were recovered. Leak was not in lined containment.

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**District IV**  
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**State of New Mexico**  
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**Oil Conservation Division**  
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QUESTIONS, Page 2

Action 357078

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357078
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 06/25/2024
--	--

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

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357078
	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 51 and 75 (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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**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)	112
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	58250
GRO+DRO (EPA SW-846 Method 8015M)	54000
BTEX (EPA SW-846 Method 8021B or 8260B)	1000
Benzene (EPA SW-846 Method 8021B or 8260B)	109

*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	02/16/2024
On what date will (or did) the final sampling or liner inspection occur	03/16/2024
On what date will (or was) the remediation complete(d)	04/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	2717
What is the estimated volume (in cubic yards) that will be reclaimed	883
What is the estimated surface area (in square feet) that will be remediated	2717
What is the estimated volume (in cubic yards) that will be remediated	883

*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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**State of New Mexico**  
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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 357078

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 357078 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
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**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/25/2024
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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.*

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

**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720

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

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 357078

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	357078
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	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	Deferral area is surrounded by separators. Remediation is unfeasible without undermining the separator structural integrity.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	760
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	142
<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 (##) on which this deferral should be granted	COTTON DRAW UNIT 18 CTB 1 [APP2130731960]
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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/25/2024

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Action 357078

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357078
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>350315</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>06/05/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>45</b>
What was the sampling surface area in square feet	<b>2200</b>

**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	<b>No</b>
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CONDITIONS

Action 357078

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357078
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of DS-1 and DS-2 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.	8/2/2024