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Site Assessment and Closure Report

Cotton Draw Unit #290H
Eddy County, NM
API# 30-015-43265
2RP-3522

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Highway
Artesia, NM 88210

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

April 29, 2020

talonlpe.com • Toll Free: (866) 742-0742

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Site Assessment and Closure Report**
Cotton Draw Unit #290H
API# 30-015-43265
2RP-3522

Dear Mr. Bratcher,

Devon Energy Production Company (Devon Energy) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site characterization and closure request are contained herein.

Site Information

Cotton Draw Unit #290H is located approximately thirty-four (34) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 36, Township 24 South and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.1805389 North and -103.7258428 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pajarito loamy fine sand, 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology are eolian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are well-drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the reported nearest depth to groundwater is 868-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is not located within a high potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater 868 Feet/BGS

- Yes No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- Yes No Within 200 feet of any lakebed, sinkhole or playa lake
- Yes No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- Yes No Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
- Yes No Within 1000 feet of any freshwater well or spring
- Yes No Within incorporated municipal boundaries or within a defined Municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes No Within 300 feet of a wetland
- Yes No Within the area overlying a subsurface mine
- Yes No Within an unstable area
- Yes No Within a 100-year floodplain

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet in-depth, based on the site characterization data, the cleanup criteria for this site are as follows.

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On January 1, 2016, a frac job was completed on this well and one of the employees failed to close an 8 inch valve on the frac tank manifold. This resulted in a release of approximately 60 barrels (bbls) of treated produced water. A vac truck was dispatched and was able to recover approximately 50 bbls. All fluids stayed on location. Remediation order 2RP-3522 was assigned to this incident.

Site Assessment

On April 6, 2020, Talon mobilized personnel to the site conducting a site assessment and collecting soil samples. Sample locations are shown on the attached site map and the results of our sampling event are presented in the following data table.

4-6-19 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg	10,000 mg/kg
S-1	4/6/2020	1	ND	ND	ND	ND	ND	ND	ND
		1.5	ND	ND	ND	ND	ND	ND	ND
		2	ND	ND	ND	ND	ND	ND	120
S-2		1	ND	ND	ND	ND	ND	ND	ND
S-3		1	ND	ND	ND	ND	ND	ND	89
		2	ND	ND	ND	ND	ND	ND	160
S-4		1	ND	ND	ND	ND	ND	ND	180
		2	ND	ND	ND	ND	ND	ND	190
		3	ND	ND	ND	ND	ND	ND	180
S-5		1	ND	ND	ND	ND	ND	ND	250
		2	ND	ND	ND	ND	ND	ND	160
S-6		1	ND	ND	ND	ND	ND	ND	320
		2	ND	ND	ND	ND	ND	ND	94
		3	ND	ND	ND	ND	ND	ND	ND
S-7		1	ND	ND	ND	ND	ND	ND	930
		2	ND	ND	ND	ND	ND	ND	2500
S-8		1	ND	ND	ND	ND	ND	ND	490
		2	ND	ND	ND	ND	ND	ND	170
		3	ND	ND	ND	ND	ND	ND	ND
S-9		1	ND	ND	ND	ND	ND	ND	210
		2	ND	ND	ND	ND	ND	ND	140
		3	ND	ND	ND	ND	ND	ND	ND

ND= Analyte Not Detected

A complete laboratory report can be found in [Appendix IV](#).

Remedial Actions

- Based upon the results of our sampling event, none of the analytical results exceeded the NMOCD clean up criteria for this site. Therefore there was no need for soil remediation activities.

Closure

Based on this site characterization and analytical results, we respectfully request that no further actions be required at this time and that closure with regard to incident 2RP-3522 be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE



Chris K. Jones
Project Manager

David J. Adkins

Digitally signed by David J. Adkins
DN: cn=David J. Adkins, ou=Talon/
LPE, email=adkins@talonlpe.com,
c=US
Date: 2020.04.29 11:04:52 -0500

David J. Adkins
District Manager

Attachments:

- Appendix I Site Map, Karst Map, TOPO Map & Locator Map
- Appendix II Soil Survey, Groundwater Data & FEMA Flood Zone
- Appendix III Initial & Final C-141
- Appendix IV Laboratory Data



APPENDIX I

SITE MAP

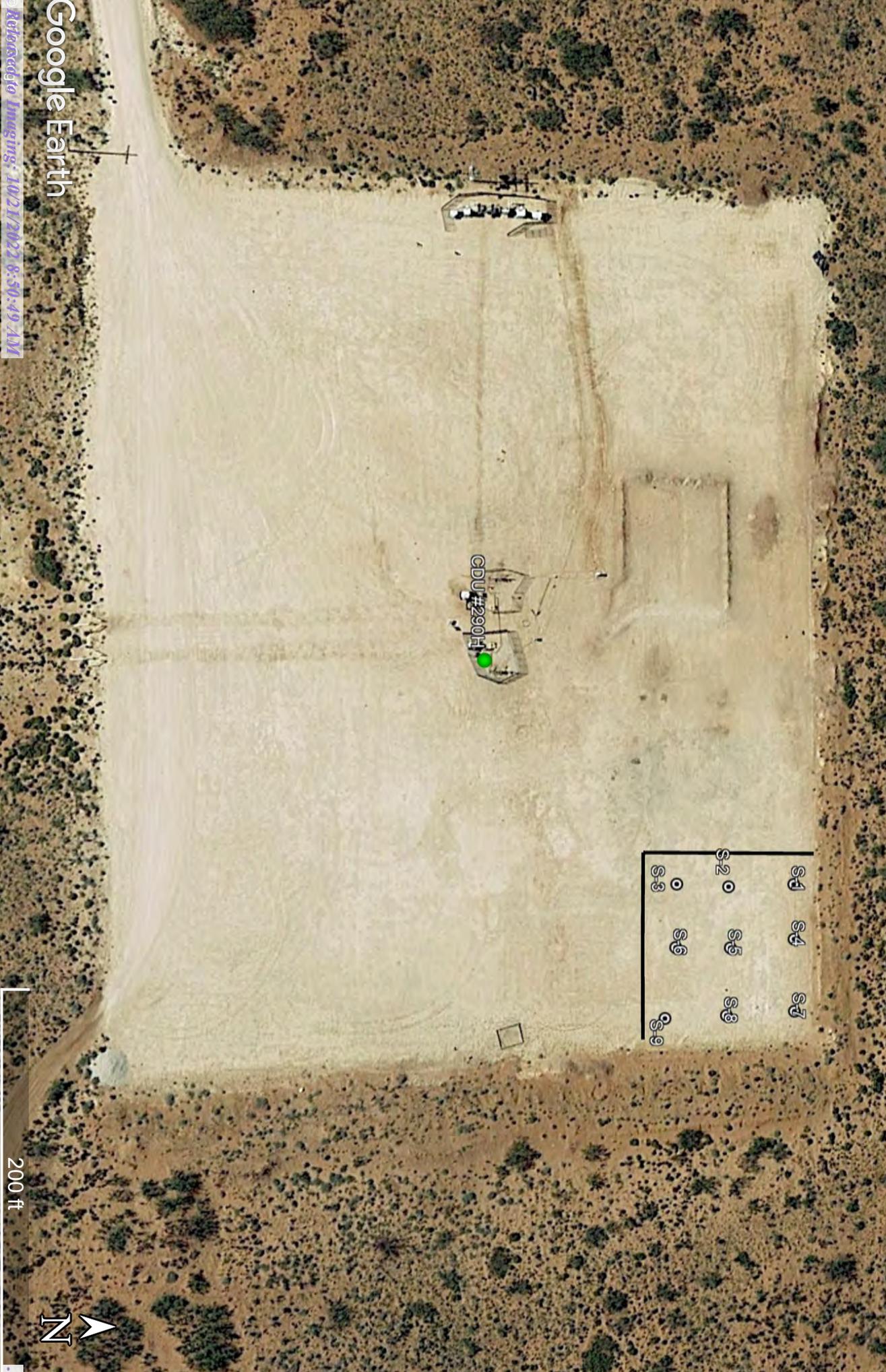
KARST MAP

TOPO MAP

LOCATION MAP

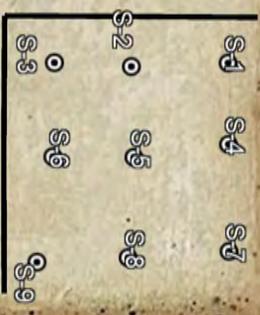
Cotton Draw Unit #290H

Devon Energy Production Company
Eddy County, NM
API 30-015-43265
Site Map



Legend

-  100' x 100' Sample Area
-  Samples



Google Earth

© 2020 Google Imagery: 10/21/2022 6:50:49 AM

200 ft

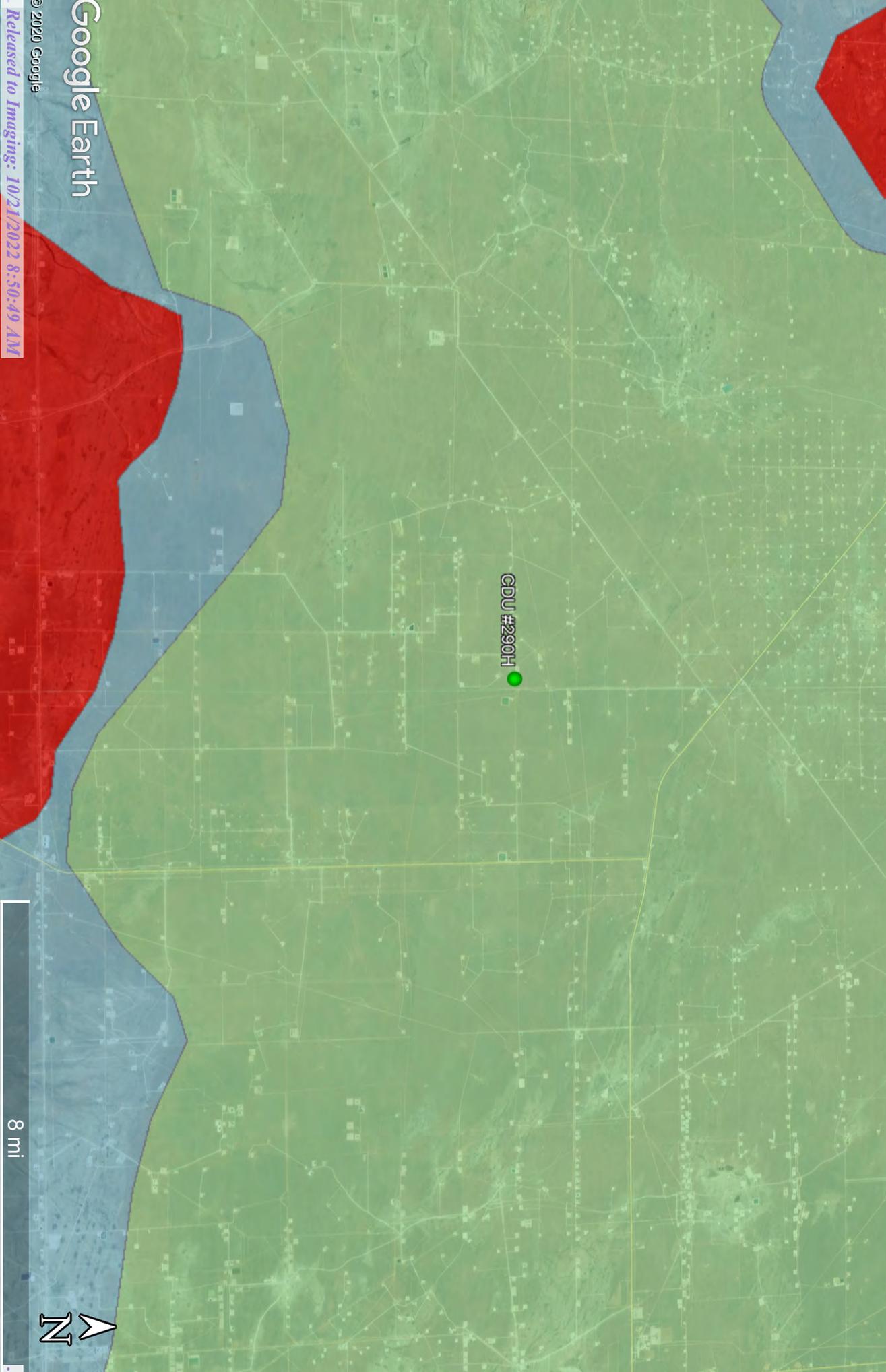


Cotton Draw Unit #290H

Devon Energy Production Company
Eddy County, NM
API 30-015-43265
Karst Map

Legend

- High
- Low
- Medium



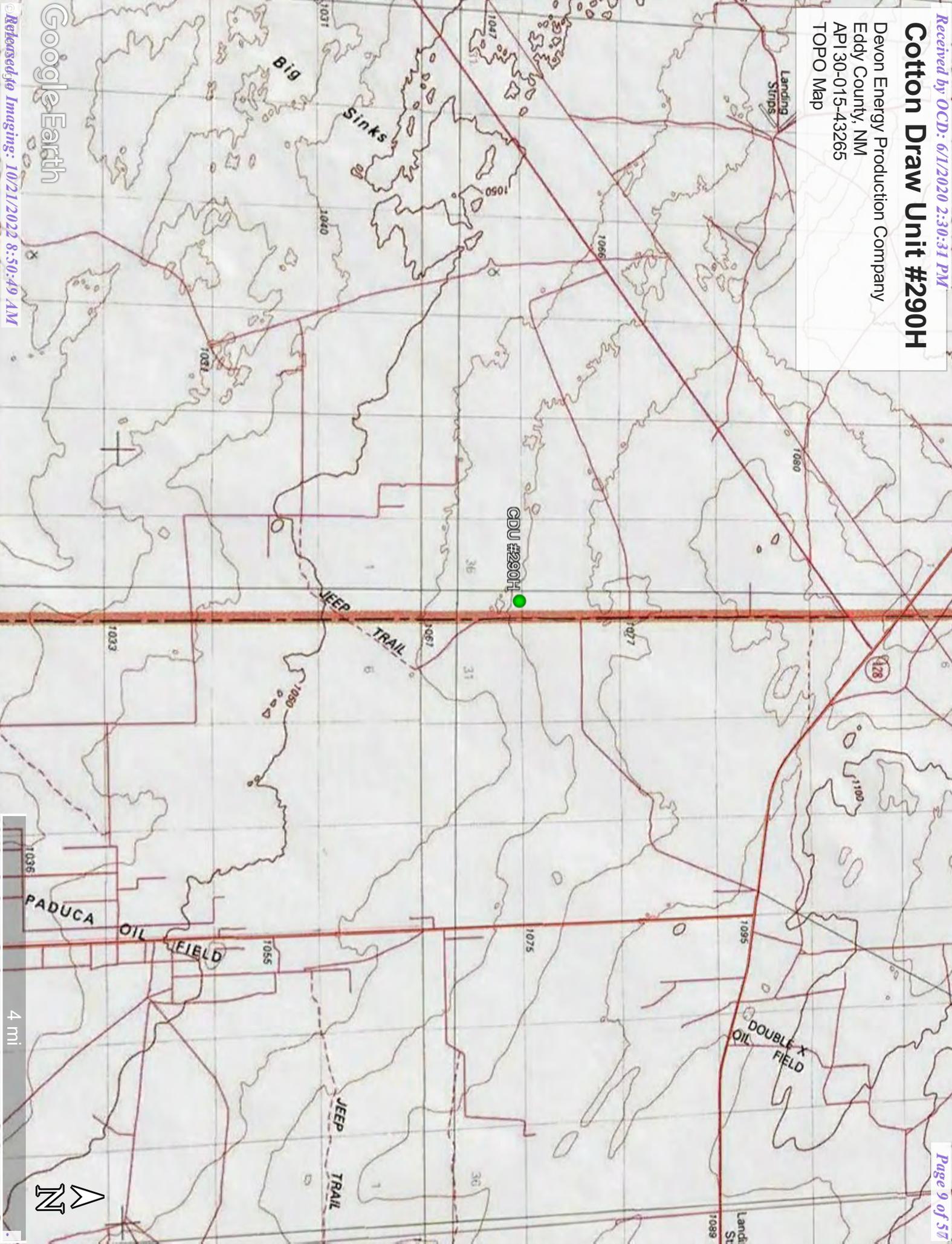
Google Earth

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Released to Imaging: 10/21/2022 8:50:49 AM

Cotton Draw Unit #290H

Devon Energy Production Company
Eddy County, NM
API 30-015-43265
TOPO Map



Google Earth

Cotton Draw Unit #290H

Devon Energy Production Company
Eddy County, NM
API 30-015-43265
Location Map



Google Earth

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Released to Imaging: 10/21/2022 8:50:49 AM

9 mi





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Well Depth	Average Depth to Water	Water Column
C_02572	CUB	ED	4	2	2	02	25S	31E	618695	3559294*	2346	852			
C_02568	CUB	ED	4	3	1	01	25S	31E	619103	3558892*	2483	1025			
C_02571	CUB	ED	4	1	2	02	25S	31E	618292	3559294*	2610	860			
C_02574	CUB	ED	1	1	2	02	25S	31E	618092	3559494*	2623				
C_02573	CUB	ED	1	4	2	02	25S	31E	618499	3559091*	2626				
C_02569	CUB	ED	4	4	2	02	25S	31E	618699	3558891*	2675	1016			
C_02570	CUB	ED	4	2	4	02	25S	31E	618704	3558489*	3021	895			
C_03830 POD1	CUB	ED	4	2	4	02	25S	31E	618632	3558432	3104	450			
C_04388 POD1	C	ED	3	2	1	23	24S	31E	617546	3564006	3838	910	868	42	

Average Depth to Water: **868 feet**
 Minimum Depth: **868 feet**
 Maximum Depth: **868 feet**

Record Count: 9

UTM NAD83 Radius Search (in meters):

Easting (X): 620119.727 Northing (Y): 3561158.178 Radius: 4000

*UTM location was derived from PLSS - see Help

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

3/27/20 2:19 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Pajarito loamy fine sand, 0 to 3 percent slopes, eroded—Eddy Area,
New Mexico

Eddy Area, New Mexico

PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w54
Elevation: 2,700 to 5,500 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Dunes, interdunes, plains
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 13 inches: loamy fine sand
H2 - 13 to 36 inches: fine sandy loam
H3 - 36 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
 (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A

Map Unit Description: Pajarito loamy fine sand, 0 to 3 percent slopes, eroded--Eddy Area,
New Mexico

Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 1 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Berino

Percent of map unit: 1 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 15, Sep 15, 2019



National Flood Hazard Layer FIRMette



Legend

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

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway

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 Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee, See Notes, Zone X
Area with Flood Risk due to Levee Zone D

NO SCREEN
Area of Minimal Flood Hazard Zone X
Effective LOMRs

OTHER AREAS
Area of Undetermined Flood Hazard Zone I
Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

GENERAL STRUCTURES
Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transsect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transsect Baseline
Profile Baseline
Hydrographic Feature

OTHER FEATURES
Digital Data Available
No Digital Data Available
Unmapped

MAP PANELS
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 3/27/2020 at 4:21:08 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, FIRFM panel number, and FIRFM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





APPENDIX III

INITIAL C-141

&

FINAL C-141

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

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

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

JAN 27 2016

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB 1602937059

OPERATOR

Initial Report Final Report

Name of Company: Devon Energy Production Co LP (6137)	Contact: Danny Velo, Devon Completions Foreman
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575-703-3360
Facility Name: Cotton Draw Unit #290H	Facility Type: Oil well
Surface Owner: State	Mineral Owner: State
API No. 30-015-43265	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	36	24S	31E	200	NORTH	890	EAST	EDDY

Latitude: 32.1805389 Longitude: -103.7258428

NATURE OF RELEASE

Type of Release: Treated Produced Water	Volume of Release: 60 barrels	Volume Recovered: 50 barrels
Source of Release: Tank manifold valve	Date and Hour of Occurrence: 1/25/2016; 6:00 AM	Date and Hour of Discovery: 1/25/2016; 2:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD	
By Whom? Danny Velo, Devon Completions Foreman	Date and Hour: 1/25/2016; 6:14 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*

After completing a frac job on location, a frac hand failed to properly shut an 8 inch valve on the frac tank manifold, causing a spill of treated produced water. When the spill was found, the valve was shut immediately to prevent further release.

Describe Area Affected and Cleanup Action Taken.*

Approximately 60 barrels of treated produced water spilled on to the NW side of the well pad in between the frac tanks. The spill was approximately 15' x 35' and did not leave location because a dirt berm surrounded the frac tanks. A vacuum truck was able to recover 50 barrels of the treated produced water. An environmental company will be called to test the spill area when completions operations have moved off of location and they will create a remediation plan for submittal.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Denise Menoud</i>	OIL CONSERVATION DIVISION	
Printed Name: Denise Menoud	Approved by Environmental Specialist <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: 1/29/16	Expiration Date: N/A
E-mail Address: Denise.Menoud@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines	
Date: 1/26/2016 Phone: 575-746-5544	Attached <input type="checkbox"/> REMIT RECOVERY PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 3/1/16

2RD-3522

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Devon Energy Production Company	Contact: Amanda Davis
Address: 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-748-0176
Facility Name: Cotton Draw Unit #290H	Facility Type: Oil Well
Surface Owner: State	Mineral Owner: State
API No. 30-015-43265	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	36	24S	31E	200	North	890	East	Eddy

Latitude 32.1805389 Longitude -103.7258428 NAD83

NATURE OF RELEASE

Type of Release: Treated Produced Water	Volume of Release: 60 BBLS	Volume Recovered: 50 BBLS
Source of Release: Tank Manifold Valve	Date and Hour of Occurrence 1-25-16 @ 6:00 am	Date and Hour of Discovery 1-25-16 @ 2:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD	
By Whom? Danny Velo- Devon Completions Foreman	Date and Hour: 1-25-16 @ 6:14 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully. N/A

Describe Cause of Problem and Remedial Action Taken. A frac employee failed to properly close an 8" valve on the manifold resulting in the release. A vac truck was dispatched to recover the spilled fluids.

Describe Area Affected and Cleanup Action Taken. The release affected the NW area of the location in an area of about 15'x35'. Talon assessed and sampled the NW part of the location and sampled an area of 100'x100'. The laboratory results resulted in all levels being under NMOCD closure criteria.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Chris Jones</i>	OIL CONSERVATION DIVISION	
Printed Name: Chris Jones	Approved by Environmental Specialist:	
Title: Environmental Project Manager	Approval Date:	Expiration Date:
E-mail Address: cjones@talonlpe.com	Conditions of Approval:	
Date: 4/20/20 Phone: 575-748-7168	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



APPENDIX IV

LABORATORY DATA



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 14, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Cotton Draw 290

OrderNo.: 2004395

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 22 sample(s) on 4/9/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-001

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/11/2020 2:02:41 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/10/2020 11:27:09 AM	51695
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2020 11:27:09 AM	51695
Surr: DNOP	99.1	55.1-146		%Rec	1	4/10/2020 11:27:09 AM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2020 11:30:28 PM	51686
Surr: BFB	102	66.6-105		%Rec	1	4/11/2020 11:30:28 PM	51686
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/11/2020 11:30:28 PM	51686
Toluene	ND	0.049		mg/Kg	1	4/11/2020 11:30:28 PM	51686
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2020 11:30:28 PM	51686
Xylenes, Total	ND	0.099		mg/Kg	1	4/11/2020 11:30:28 PM	51686
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/11/2020 11:30:28 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1@1.5'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-002

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/11/2020 2:15:01 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/10/2020 12:38:59 PM	51695
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/10/2020 12:38:59 PM	51695
Surr: DNOP	99.7	55.1-146		%Rec	1	4/10/2020 12:38:59 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2020 11:54:22 PM	51686
Surr: BFB	104	66.6-105		%Rec	1	4/11/2020 11:54:22 PM	51686
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2020 11:54:22 PM	51686
Toluene	ND	0.048		mg/Kg	1	4/11/2020 11:54:22 PM	51686
Ethylbenzene	ND	0.048		mg/Kg	1	4/11/2020 11:54:22 PM	51686
Xylenes, Total	ND	0.096		mg/Kg	1	4/11/2020 11:54:22 PM	51686
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/11/2020 11:54:22 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-003

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/11/2020 2:27:22 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/10/2020 1:02:58 PM	51695
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2020 1:02:58 PM	51695
Surr: DNOP	99.1	55.1-146		%Rec	1	4/10/2020 1:02:58 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 12:18:15 AM	51686
Surr: BFB	102	66.6-105		%Rec	1	4/12/2020 12:18:15 AM	51686
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 12:18:15 AM	51686
Toluene	ND	0.049		mg/Kg	1	4/12/2020 12:18:15 AM	51686
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 12:18:15 AM	51686
Xylenes, Total	ND	0.099		mg/Kg	1	4/12/2020 12:18:15 AM	51686
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/12/2020 12:18:15 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-004

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	160	60		mg/Kg	20	4/11/2020 2:39:43 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/10/2020 1:26:57 PM	51695
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2020 1:26:57 PM	51695
Surr: DNOP	95.3	55.1-146		%Rec	1	4/10/2020 1:26:57 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 12:42:02 AM	51686
Surr: BFB	101	66.6-105		%Rec	1	4/12/2020 12:42:02 AM	51686
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 12:42:02 AM	51686
Toluene	ND	0.049		mg/Kg	1	4/12/2020 12:42:02 AM	51686
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 12:42:02 AM	51686
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2020 12:42:02 AM	51686
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	4/12/2020 12:42:02 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-005

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	89	61		mg/Kg	20	4/11/2020 2:52:04 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/10/2020 1:50:57 PM	51695
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2020 1:50:57 PM	51695
Surr: DNOP	98.1	55.1-146		%Rec	1	4/10/2020 1:50:57 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2020 3:04:46 AM	51694
Surr: BFB	98.8	66.6-105		%Rec	1	4/12/2020 3:04:46 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 3:04:46 AM	51694
Toluene	ND	0.048		mg/Kg	1	4/12/2020 3:04:46 AM	51694
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2020 3:04:46 AM	51694
Xylenes, Total	ND	0.095		mg/Kg	1	4/12/2020 3:04:46 AM	51694
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	4/12/2020 3:04:46 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@3'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-006

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	4/11/2020 3:04:24 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2020 2:14:53 PM	51695
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2020 2:14:53 PM	51695
Surr: DNOP	68.1	55.1-146		%Rec	1	4/10/2020 2:14:53 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/12/2020 4:15:54 AM	51694
Surr: BFB	101	66.6-105		%Rec	1	4/12/2020 4:15:54 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 4:15:54 AM	51694
Toluene	ND	0.050		mg/Kg	1	4/12/2020 4:15:54 AM	51694
Ethylbenzene	ND	0.050		mg/Kg	1	4/12/2020 4:15:54 AM	51694
Xylenes, Total	ND	0.099		mg/Kg	1	4/12/2020 4:15:54 AM	51694
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/12/2020 4:15:54 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-007

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	250	60		mg/Kg	20	4/11/2020 3:16:45 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/10/2020 2:38:47 PM	51695
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2020 2:38:47 PM	51695
Surr: DNOP	89.2	55.1-146		%Rec	1	4/10/2020 2:38:47 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/12/2020 5:26:33 AM	51694
Surr: BFB	102	66.6-105		%Rec	1	4/12/2020 5:26:33 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 5:26:33 AM	51694
Toluene	ND	0.047		mg/Kg	1	4/12/2020 5:26:33 AM	51694
Ethylbenzene	ND	0.047		mg/Kg	1	4/12/2020 5:26:33 AM	51694
Xylenes, Total	ND	0.095		mg/Kg	1	4/12/2020 5:26:33 AM	51694
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/12/2020 5:26:33 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-008

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	160	60		mg/Kg	20	4/11/2020 3:29:06 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2020 3:02:41 PM	51695
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2020 3:02:41 PM	51695
Surr: DNOP	88.6	55.1-146		%Rec	1	4/10/2020 3:02:41 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 5:50:03 AM	51694
Surr: BFB	96.6	66.6-105		%Rec	1	4/12/2020 5:50:03 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 5:50:03 AM	51694
Toluene	ND	0.049		mg/Kg	1	4/12/2020 5:50:03 AM	51694
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 5:50:03 AM	51694
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2020 5:50:03 AM	51694
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	4/12/2020 5:50:03 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-009

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	320	60		mg/Kg	20	4/11/2020 4:06:09 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/10/2020 3:26:39 PM	51695
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/10/2020 3:26:39 PM	51695
Surr: DNOP	86.4	55.1-146		%Rec	1	4/10/2020 3:26:39 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 6:13:37 AM	51694
Surr: BFB	99.0	66.6-105		%Rec	1	4/12/2020 6:13:37 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 6:13:37 AM	51694
Toluene	ND	0.049		mg/Kg	1	4/12/2020 6:13:37 AM	51694
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 6:13:37 AM	51694
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2020 6:13:37 AM	51694
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	4/12/2020 6:13:37 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-010

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	94	60		mg/Kg	20	4/11/2020 4:18:30 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/10/2020 3:50:37 PM	51695
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2020 3:50:37 PM	51695
Surr: DNOP	90.6	55.1-146		%Rec	1	4/10/2020 3:50:37 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2020 6:37:11 AM	51694
Surr: BFB	97.8	66.6-105		%Rec	1	4/12/2020 6:37:11 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 6:37:11 AM	51694
Toluene	ND	0.048		mg/Kg	1	4/12/2020 6:37:11 AM	51694
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2020 6:37:11 AM	51694
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2020 6:37:11 AM	51694
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	4/12/2020 6:37:11 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@3'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-011

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/11/2020 4:30:53 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/10/2020 4:14:34 PM	51695
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2020 4:14:34 PM	51695
Surr: DNOP	101	55.1-146		%Rec	1	4/10/2020 4:14:34 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 7:00:48 AM	51694
Surr: BFB	97.1	66.6-105		%Rec	1	4/12/2020 7:00:48 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 7:00:48 AM	51694
Toluene	ND	0.049		mg/Kg	1	4/12/2020 7:00:48 AM	51694
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 7:00:48 AM	51694
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2020 7:00:48 AM	51694
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	4/12/2020 7:00:48 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-012

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	930	60		mg/Kg	20	4/11/2020 4:43:13 PM	51727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/10/2020 4:38:27 PM	51695
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2020 4:38:27 PM	51695
Surr: DNOP	87.0	55.1-146		%Rec	1	4/10/2020 4:38:27 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2020 7:24:21 AM	51694
Surr: BFB	97.4	66.6-105		%Rec	1	4/12/2020 7:24:21 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 7:24:21 AM	51694
Toluene	ND	0.048		mg/Kg	1	4/12/2020 7:24:21 AM	51694
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2020 7:24:21 AM	51694
Xylenes, Total	ND	0.096		mg/Kg	1	4/12/2020 7:24:21 AM	51694
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	4/12/2020 7:24:21 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-013

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	490	60		mg/Kg	20	4/11/2020 5:44:57 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/10/2020 5:02:23 PM	51695
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/10/2020 5:02:23 PM	51695
Surr: DNOP	88.0	55.1-146		%Rec	1	4/10/2020 5:02:23 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 7:47:54 AM	51694
Surr: BFB	97.2	66.6-105		%Rec	1	4/12/2020 7:47:54 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 7:47:54 AM	51694
Toluene	ND	0.049		mg/Kg	1	4/12/2020 7:47:54 AM	51694
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 7:47:54 AM	51694
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2020 7:47:54 AM	51694
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	4/12/2020 7:47:54 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-014

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	170	60		mg/Kg	20	4/11/2020 6:46:42 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2020 5:26:29 PM	51695
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2020 5:26:29 PM	51695
Surr: DNOP	87.3	55.1-146		%Rec	1	4/10/2020 5:26:29 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 8:11:26 AM	51694
Surr: BFB	97.2	66.6-105		%Rec	1	4/12/2020 8:11:26 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 8:11:26 AM	51694
Toluene	ND	0.049		mg/Kg	1	4/12/2020 8:11:26 AM	51694
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 8:11:26 AM	51694
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2020 8:11:26 AM	51694
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	4/12/2020 8:11:26 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8@3'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-015

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/11/2020 6:59:02 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/10/2020 5:50:29 PM	51695
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2020 5:50:29 PM	51695
Surr: DNOP	58.0	55.1-146		%Rec	1	4/10/2020 5:50:29 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/12/2020 10:09:26 AM	51694
Surr: BFB	99.0	66.6-105		%Rec	1	4/12/2020 10:09:26 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 10:09:26 AM	51694
Toluene	ND	0.050		mg/Kg	1	4/12/2020 10:09:26 AM	51694
Ethylbenzene	ND	0.050		mg/Kg	1	4/12/2020 10:09:26 AM	51694
Xylenes, Total	ND	0.099		mg/Kg	1	4/12/2020 10:09:26 AM	51694
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	4/12/2020 10:09:26 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-016

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2500	150		mg/Kg	50	4/14/2020 12:07:18 AM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/10/2020 6:14:25 PM	51695
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2020 6:14:25 PM	51695
Surr: DNOP	83.5	55.1-146		%Rec	1	4/10/2020 6:14:25 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2020 10:33:05 AM	51694
Surr: BFB	98.6	66.6-105		%Rec	1	4/12/2020 10:33:05 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 10:33:05 AM	51694
Toluene	ND	0.048		mg/Kg	1	4/12/2020 10:33:05 AM	51694
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2020 10:33:05 AM	51694
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2020 10:33:05 AM	51694
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	4/12/2020 10:33:05 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-017

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	60		mg/Kg	20	4/11/2020 7:23:44 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2020 6:38:11 PM	51695
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2020 6:38:11 PM	51695
Surr: DNOP	86.9	55.1-146		%Rec	1	4/10/2020 6:38:11 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2020 10:56:45 AM	51694
Surr: BFB	98.2	66.6-105		%Rec	1	4/12/2020 10:56:45 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 10:56:45 AM	51694
Toluene	ND	0.048		mg/Kg	1	4/12/2020 10:56:45 AM	51694
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2020 10:56:45 AM	51694
Xylenes, Total	ND	0.096		mg/Kg	1	4/12/2020 10:56:45 AM	51694
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	4/12/2020 10:56:45 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-018

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	140	60		mg/Kg	20	4/11/2020 7:36:05 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/10/2020 7:01:57 PM	51695
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2020 7:01:57 PM	51695
Surr: DNOP	86.4	55.1-146		%Rec	1	4/10/2020 7:01:57 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/12/2020 11:20:29 AM	51694
Surr: BFB	96.4	66.6-105		%Rec	1	4/12/2020 11:20:29 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/12/2020 11:20:29 AM	51694
Toluene	ND	0.046		mg/Kg	1	4/12/2020 11:20:29 AM	51694
Ethylbenzene	ND	0.046		mg/Kg	1	4/12/2020 11:20:29 AM	51694
Xylenes, Total	ND	0.092		mg/Kg	1	4/12/2020 11:20:29 AM	51694
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	4/12/2020 11:20:29 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9@3'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-019

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/11/2020 7:48:25 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/10/2020 7:25:35 PM	51695
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2020 7:25:35 PM	51695
Surr: DNOP	92.2	55.1-146		%Rec	1	4/10/2020 7:25:35 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/12/2020 11:44:09 AM	51694
Surr: BFB	96.1	66.6-105		%Rec	1	4/12/2020 11:44:09 AM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 11:44:09 AM	51694
Toluene	ND	0.047		mg/Kg	1	4/12/2020 11:44:09 AM	51694
Ethylbenzene	ND	0.047		mg/Kg	1	4/12/2020 11:44:09 AM	51694
Xylenes, Total	ND	0.094		mg/Kg	1	4/12/2020 11:44:09 AM	51694
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	4/12/2020 11:44:09 AM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004395

Date Reported: 4/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@1'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-020

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	4/11/2020 8:00:46 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/10/2020 7:49:13 PM	51695
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2020 7:49:13 PM	51695
Surr: DNOP	88.5	55.1-146		%Rec	1	4/10/2020 7:49:13 PM	51695
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/12/2020 12:07:36 PM	51694
Surr: BFB	98.9	66.6-105		%Rec	1	4/12/2020 12:07:36 PM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2020 12:07:36 PM	51694
Toluene	ND	0.048		mg/Kg	1	4/12/2020 12:07:36 PM	51694
Ethylbenzene	ND	0.048		mg/Kg	1	4/12/2020 12:07:36 PM	51694
Xylenes, Total	ND	0.096		mg/Kg	1	4/12/2020 12:07:36 PM	51694
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	4/12/2020 12:07:36 PM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-021

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	190	60		mg/Kg	20	4/11/2020 8:13:06 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/11/2020 9:11:15 AM	51703
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/11/2020 9:11:15 AM	51703
Surr: DNOP	99.1	55.1-146		%Rec	1	4/11/2020 9:11:15 AM	51703
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2020 12:31:03 PM	51694
Surr: BFB	97.9	66.6-105		%Rec	1	4/12/2020 12:31:03 PM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/12/2020 12:31:03 PM	51694
Toluene	ND	0.049		mg/Kg	1	4/12/2020 12:31:03 PM	51694
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2020 12:31:03 PM	51694
Xylenes, Total	ND	0.098		mg/Kg	1	4/12/2020 12:31:03 PM	51694
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	4/12/2020 12:31:03 PM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2004395**

Date Reported: **4/14/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1@2'

Project: Cotton Draw 290

Collection Date: 4/6/2020

Lab ID: 2004395-022

Matrix: SOIL

Received Date: 4/9/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	120	60		mg/Kg	20	4/11/2020 8:50:07 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/11/2020 10:22:56 AM	51703
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/11/2020 10:22:56 AM	51703
Surr: DNOP	91.5	55.1-146		%Rec	1	4/11/2020 10:22:56 AM	51703
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/12/2020 12:54:29 PM	51694
Surr: BFB	99.6	66.6-105		%Rec	1	4/12/2020 12:54:29 PM	51694
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/12/2020 12:54:29 PM	51694
Toluene	ND	0.047		mg/Kg	1	4/12/2020 12:54:29 PM	51694
Ethylbenzene	ND	0.047		mg/Kg	1	4/12/2020 12:54:29 PM	51694
Xylenes, Total	ND	0.093		mg/Kg	1	4/12/2020 12:54:29 PM	51694
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	4/12/2020 12:54:29 PM	51694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: MB-51736	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51736	RunNo: 68062								
Prep Date: 4/11/2020	Analysis Date: 4/11/2020	SeqNo: 2352424	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51736	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51736	RunNo: 68062								
Prep Date: 4/11/2020	Analysis Date: 4/11/2020	SeqNo: 2352425	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID: MB-51727	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51727	RunNo: 68062								
Prep Date: 4/11/2020	Analysis Date: 4/11/2020	SeqNo: 2352450	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51727	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51727	RunNo: 68062								
Prep Date: 4/11/2020	Analysis Date: 4/11/2020	SeqNo: 2352451	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: MB-51695	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51695	RunNo: 68007								
Prep Date: 4/9/2020	Analysis Date: 4/10/2020	SeqNo: 2350335	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.5	55.1	146			

Sample ID: LCS-51695	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51695	RunNo: 68007								
Prep Date: 4/9/2020	Analysis Date: 4/10/2020	SeqNo: 2350337	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.9	70	130			
Surr: DNOP	4.3		5.000		85.9	55.1	146			

Sample ID: 2004395-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1@1'	Batch ID: 51695	RunNo: 68007								
Prep Date: 4/9/2020	Analysis Date: 4/10/2020	SeqNo: 2351234	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.7	48.45	3.356	88.4	47.4	136			
Surr: DNOP	4.5		4.845		93.2	55.1	146			

Sample ID: 2004395-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1@1'	Batch ID: 51695	RunNo: 68007								
Prep Date: 4/9/2020	Analysis Date: 4/10/2020	SeqNo: 2351235	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	49.95	3.356	91.3	47.4	136	5.83	43.4	
Surr: DNOP	4.8		4.995		96.1	55.1	146	0	0	

Sample ID: MB-51703	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51703	RunNo: 68041								
Prep Date: 4/10/2020	Analysis Date: 4/11/2020	SeqNo: 2351310	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: LCS-51703	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51703	RunNo: 68041								
Prep Date: 4/10/2020	Analysis Date: 4/11/2020	SeqNo: 2351311	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.8		5.000		96.9	55.1	146			

Sample ID: 2004395-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-4@2'	Batch ID: 51703	RunNo: 68041								
Prep Date: 4/10/2020	Analysis Date: 4/11/2020	SeqNo: 2351313	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.7	48.54	0	94.9	47.4	136			
Surr: DNOP	4.5		4.854		92.1	55.1	146			

Sample ID: 2004395-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-4@2'	Batch ID: 51703	RunNo: 68041								
Prep Date: 4/10/2020	Analysis Date: 4/11/2020	SeqNo: 2351314	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.85	0	99.8	47.4	136	3.54	43.4	
Surr: DNOP	4.7		4.785		98.5	55.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: ics-51686	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 51686		RunNo: 68015							
Prep Date: 4/9/2020	Analysis Date: 4/11/2020		SeqNo: 2350913		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.7	80	120			
Surr: BFB	1100		1000		107	66.6	105			S

Sample ID: mb-51686	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 51686		RunNo: 68015							
Prep Date: 4/9/2020	Analysis Date: 4/11/2020		SeqNo: 2350915		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	66.6	105			

Sample ID: mb-51694	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 51694		RunNo: 68059							
Prep Date: 4/9/2020	Analysis Date: 4/12/2020		SeqNo: 2352101		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.9	66.6	105			

Sample ID: LCS-51694	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 51694		RunNo: 68059							
Prep Date: 4/9/2020	Analysis Date: 4/12/2020		SeqNo: 2352103		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	80	120			
Surr: BFB	1100		1000		110	66.6	105			S

Sample ID: 2004395-006ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-4@3'	Batch ID: 51694		RunNo: 68059							
Prep Date: 4/9/2020	Analysis Date: 4/12/2020		SeqNo: 2352108		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.95	0	93.4	69.1	142			
Surr: BFB	1100		998.0		111	66.6	105			S

Sample ID: 2004395-006amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-4@3'	Batch ID: 51694		RunNo: 68059							
Prep Date: 4/9/2020	Analysis Date: 4/12/2020		SeqNo: 2352109		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: 2004395-006amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-4@3'	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352109			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.85	0	93.3	69.1	142	0.484	20	
Surr: BFB	1100		994.0		110	66.6	105	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: LCS-51686	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 51686	RunNo: 68015								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2350960	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: mb-51686	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 51686	RunNo: 68015								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2350962	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: mb-51694	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352160	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	80	120			

Sample ID: lcs-51694	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352161	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.2	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004395

14-Apr-20

Client: Talon Artesia
Project: Cotton Draw 290

Sample ID: 2004395-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-3@1'	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352163	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9930	0	90.6	78.5	119			
Toluene	0.92	0.050	0.9930	0	93.0	75.7	123			
Ethylbenzene	0.95	0.050	0.9930	0	96.0	74.3	126			
Xylenes, Total	2.9	0.099	2.979	0	96.7	72.9	130			
Surr: 4-Bromofluorobenzene	1.5		0.9930		155	80	120			S

Sample ID: 2004395-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-3@1'	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352164	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9488	0	92.2	78.5	119	2.90	20	
Toluene	0.90	0.047	0.9488	0	95.4	75.7	123	2.09	20	
Ethylbenzene	0.94	0.047	0.9488	0	98.8	74.3	126	1.69	20	
Xylenes, Total	2.8	0.095	2.846	0	99.4	72.9	130	1.76	20	
Surr: 4-Bromofluorobenzene	0.96		0.9488		102	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TALON ARTESIA

Work Order Number: 2004395

RcptNo: 1

Received By: Juan Rojas

4/9/2020 8:25:00 AM

Juan Rojas

Completed By: Isaiah Ortiz

4/9/2020 9:49:54 AM

I-Ortiz

Reviewed By: AB

4/9/20

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: DAD 4/9/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.1, Good, Not Present, [], [], []

Chain-of-Custody Record

Client: Talon LPE
 408 W Texas St
 Mailing Address: Artesia, NM 88210
 Phone #: (575) 746-8905
 email or Fax#: (575) 746-8905
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time: Same Rush
 Standard Rush
 Project Name: Cotton Draw #290
 Project #: 70079403901
 Project Manager: C. Jones
 Sampler: B. Stowell
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 2.4-0.3=2.1

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/8/20	9:00 AM	✓	S-1 @ 1'			2004395
		✓	S-1 @ 1.5'			-001
		✓	S-2 @ 1'			-003
		✓	S-3 @ 2'			-004
		✓	S-3 @ 1'			-005
		✓	S-4 @ 3'			-006
		✓	S-5 @ 1'			-007
		✓	S-5 @ 2'			-008
		✓	S-6 @ 1'			-009
		✓	S-6 @ 2'			-010
		✓	S-7 @ 3'			-011
		✓	S-7 @ 1'			-012

Date: 4/8/20 Time: 9:00 AM Relinquished by: [Signature]
 Date: 4/8/20 Time: 19:00 Relinquished by: [Signature]
 Received by: [Signature] Date: 4/8/20 Time: 09:00
 Received by: [Signature] Date: 4/9/20 Time: 8:25
 Via: courier

HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
8081 Pesticides/8082 PCB's	
(TPH:8015D)(GRO / DRO / MRO)	
BTEX / MTBE / TMB's (8021)	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: Please cc the following via email:
 Dadkins@talonpe.com
 Rpons@talonpe.com
 C.Jones@talonpe.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Talon LPE
 408 W Texas St
 Mailing Address: Artesia, NM 88210

Phone #: _____
 email or Fax#: (575) 746-8905
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time: 5 day Rush
 Standard Rush
 Project Name: Cottonwood #290
 Project #: 200940339.01

Project Manager: E. Jones
 Sampler: B. Swartz
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 2.4 - 0.3 = 2.1

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/16	AM		S-8 @ 1'			30043915
			S-8 @ 2'			-013
			S-8 @ 3'			-014
			S-7 @ 2'			-015
			S-9 @ 1'			-016
			S-9 @ 2'			-017
			S-9 @ 3'			-018
			S-4 @ 1'			-019
			S-4 @ 2'			-020
			S-1 @ 2'			-021
			S-4 @ 1'			-022
			S-4 @ 2'			

Date: 4/16/20
 Time: 9:00 AM
 Relinquished by: Ruben Pava
 Date: 4/16/20
 Time: 1 PM
 Relinquished by: _____
 Received by: _____
 Date: 4/18/20
 Time: 09:00
 Via: _____
 Received by: _____
 Date: 4/19/20
 Time: 8:25
 Via: _____
 Received by: _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
(BTEX / MTBE / TMB's (8021))	
(TPH:8015D(GRO / DRO / MRO))	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
(C,F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: Please cc the following via email:
 Dadkins@talonlpe.com
 Rpons@talonlpe.com
 cstone@talonlpe.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

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

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

Incident ID	NAB1602937059
District RP	2RP-3522
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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

Printed Name: Tom Bynum Title: EHS Consultant

Signature: *Tom Bynum* Date: 4/29/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

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Remediation Plan

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

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

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

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

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

Printed Name: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 4/29/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

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- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Closure

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

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

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

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

Printed Name: Tom Bynum Title: EHS Consultant

Signature: *Tom Bynum* Date: 4/29/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Brittany Hall* Date: 10/21/2022

Printed Name: Brittany Hall Title: Environmental Specialist

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

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

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

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

 Action 8545

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 8545
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	10/21/2022