Page 1 of 98

Incident ID	nAB1522442205
District RP	
Facility ID	30-015-24827
Application ID	

## Closure

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

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

	15.29.11 NMAC
Photographs of the remediated site prior to backfill or must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropria	ate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file may endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accepta compliance with any other federal, state, or local laws and/o restore, reclaim, and re-vegetate the impacted surface area to	complete to the best of my knowledge and understand that pursuant to OCD rules e certain release notifications and perform corrective actions for releases which ance of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, since of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Environmental Professional
Signature: Dale Woodall	Date: February 7, 2023
Email: Dale.Woodall@dvn.com	Telephone: 575.748.1838
OCD Only	
Received by:	Date:
	e party of liability should their operations have failed to adequately investigate and surface water, human health, or the environment nor does not relieve the responsible ws and/or regulations.
Closure Approved by: Juttan Hall	Date: <u>3/27/2023</u>
Printed Name: Brittay Hall	Title: Environmental Specialist
_	







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### **Closure Report**

Cotton Draw Unit #089 Eddy County, New Mexico API# 30-015-24827 Incident #s nMLB1128636288, nAB1522442205, nAB1616231629, and nAB1711551324

## **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

**February 6, 2023** 



Mr. Mike Bratcher
NMOCD District 2
506 W. Texas Avenue
Artesia, NM 88210

Subject: Closure Report

Cotton Draw Unit #089 Eddy County, New Mexico

API# 30-015-24827

Incident #s nMLB1128636288, nAB1522442205, nAB1616231629, and

nAB1711551324

Dear Mr. Bratcher.

Devon Energy Production Company (Devon) contracted Talon/LPE (Talon) to complete remediation and closure activities at the above referenced location. The results of the remediation and final data for closure are provided herein.

#### Site Information

The Cotton Draw Unit #089 is located approximately 46 miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter O, Section 3, Township 25 South and Range 31 East in Eddy County, New Mexico. The latitude and longitude for the site is 32.1528893 and -103.7636414. Site maps are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soils in the area are made up of Berino comples, with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology are Holocene to upper Pleistocene in age and comprised of mixed alluvium and/or eolian sands. Drainage courses in this area are typically well drained.

#### **Groundwater and Site Characterization**

Based on New Mexico Office of the State Engineer Database, the nearest reported groundwater depth is 390 feet below ground surface (bgs) but is located greater than 0.5 miles from the subject site. Because the data is over 0.5 miles from the site, a temporary well was drilled to a depth of 55 feet bgs approximately 0.14 miles southeast of the site to conclusively determine the presence of absence of groundwater at that depth. See Appendix II for the submitted well record and log to the New Mexico Office of the State Engineer. Groundwater was not encountered at 55 feet bgs following a six (6) day period after the installation of the temporary well. The FEMA Flood Map Service Center does not locate the site in a 100-year flood plain. Further research of the Bureau of Land

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**866.742.0742** 

Management Karst data indicates that the site is not located in a potential karst area. See Appendix II for the site characterization data.

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

Approx	ximate Depth to	Groundwater	> 55 feet/bgs
∐Yes	⊠No	Within 300 feet of any continuously flowing water any other significant watercourse	ercourse or
∐Yes	⊠No	Within 200 feet of any lakebed, sinkhole or a pla	aya lake
∐Yes	⊠No	Within 300 feet from an occupied permanent re school, hospital, institution or church	sidence,
∐Yes	⊠No	Within 500 feet of a spring or a private, domesti well used by less than five households for dome watering purposes	
∐Yes	⊠No	Within 1000 feet of any freshwater well or spring	g
∐Yes	⊠No	Within incorporated municipal boundaries or wit municipal freshwater well field covered under a ordinance adopted pursuant to Section 3-2703	municipal
∐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 releases occurred in a production area (well pad) and the verified depth to groundwater is greater than 55 feet bgs, the clean-up criteria for this site is as follows.

	Table I Closure Criteria for Soils Impacted by a Release									
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit							
51-100 feet	Total Chlorides TPH	EPA 300.0 or SM4500 CI B EPA SW-846 Method	10,000 mg/kg 2,500 mg/kg							
	(GRO+DRO+MRO)	8015M	, ,							
	TPH (GRO + DRO)	EPA SW-846 Method 8015M	1,000 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 September 20, 2011, lightning struck a fiberglass produced water tank and the associated piping. Approximately 28 barrels (bbls) of condensate were released inside the diked area. Approximately six (6) bbls of condensate was recovered. A fire resulted from the lightning strike and the residual fluid was burned in the explosion that followed. Devon personnel shut in the well and all of the burned equipment was later removed. Devon converted this production site to a Salt Water Disposal Facility. The release was reported to the NMOCD and was assigned incident number **nMLB1128636288**.

On August 6, 2015, a transport driver for Black River Trucking was loading produced water when the connecting high pressure 4" hose blew apart, resulting in the release of 35 bbls onto the pad area location. The well was immediately shut in and a hydro-vac service immediately commenced recovering approximately 25 bbls of produced water. An initial C-141 was received by the NMOCD on August 11, 2015 and assigned the incident **nAB1522442205**. Talon assessed the site and submitted a work plan for the remediation of the affected area. The work plan was approved by the NMOCD on February 9, 2016, but was voided based on a later release in the area.

On June 2, 2016, the plug on the strainer traversing to the number three water injection pump had corroded resulting in a release of approximately seven (7) bbls of produced water. The number three water injection pump was immediately shut down in order to prevent further release. Approximately six (6) bbls of fluid were recovered. This impacted an area on the pad that measured approximately 3 ft. wide x 18 ft. long, extending to the southwestern part of the pad. The footprint of this incident overlapped the previous release, nAB1522442205. The release was reported to NMOCD and was assigned the incident number nAB1616231629.

On April 10, 2017, a filter screen plug was missing on the triplex pump, resulting in a release of 16 bbls of produced water outside of the containment. The main water supply valve feeding the pump was closed and the plug was replaced. The C-141 for this incident was submitted to the NMOCD on April 21, 2017. The NMOCD assigned the incident number **nAB1711551324**. Devon contracted Talon to assess the site and submit a work plan to the NMOCD. The work plan to remediate for this incident was approved on June 11, 2018. The referenced NMOCD approved work plan and approval are in Appendix III.

Site maps of the releases are presented in Appendix I. Initial C-141 spill notifications were filed with the NMOCD and are attached in Appendix III.

#### **Site Assessment Activities**

On August 3, 2020, Talon personnel and equipment were mobilized to the location to perform a direction Geoprobe drilling under the south end of the containment to assess release nMLB1128636288. The final sampling depth was approximately 10 feet bgs and the sample results are summarized in Table 1a.

The samples were transported with the chain of custody to Hall Laboratories, for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

Table 1a
Site Assessment Analytical Data
Incident #s nMI R1128636288

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	Clorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + 1,000			2,500 mg/kg	10,000 mg/kg
	8/3/2020	0-1'	ND	ND	ND	45	ND	45	1,500
	8/3/2020	2'	ND	ND	ND	ND	ND	-	72
	8/3/2020	3'	ND	ND	ND	ND	ND	-	76
B-1	8/3/2020	4'	ND	ND	ND	ND	ND	-	1,300
	8/3/2020	6'	ND	ND	ND	ND	ND	-	690
	8/3/2020	8'	ND	ND	ND	ND	ND	-	210
	8/3/2020	10'	ND	ND	ND	ND	ND	-	96
BG-1	8/3/2020	0-1'	ND	ND	ND	17	85	102	ND
	<b>2011 Fire Incident</b> ND = Analyte not detected								

On September 16, 2015, Talon collected soil samples from test trench, S-1, from surface to four (4) feet bgs. Following receipt of the laboratory data, Talon returned on January 11, 2016 and collected grab samples for delineation at S-2 through S-4 locations to four (4) feet bgs. The samples were transported to Cardinal Laboratories, for analysis of Total Chlorides (SM4500Cl-B). The summary of the results are presented in the following Table 1b.

Table 1b Site Assessment Analytical Data Incident # nAB1522442205

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	Clorides mg/kg
	CD Table 1 Clo ia 19.15.29 N		50 mg/kg	10 mg/kg		GRO = mg/kg		2,500 mg/kg	10,000 mg/kg
	9/16/2015	1′	NT	NT	NT	NT	NT	-	2,800
S-1	9/16/2015	2'	NT	NT	NT	NT	NT	-	160
2-1	9/16/2015	3'	NT	NT	NT	NT	NT	-	144
	9/16/2015	4'	NT	NT	NT	NT	NT	-	64
	1/11/2016	1'	NT	NT	NT	NT	NT	-	720
S-2	1/11/2016	2'	NT	NT	NT	NT	NT	-	1,880
3-2	1/11/2016	3'	NT	NT	NT	NT	NT	-	128
	1/11/2016	4'	NT	NT	NT	NT	NT	-	80
	1/11/2016	1'	NT	NT	NT	NT	NT	-	2,600
S-3	1/11/2016	2'	NT	NT	NT	NT	NT	-	2,080
3-3	1/11/2016	3'	NT	NT	NT	NT	NT	-	2,840
	1/11/2016	4' R	NT	NT	NT	NT	NT	-	2,320
	1/11/2016	1'	NT	NT	NT	NT	NT	-	624
S-4	1/11/2016	2'	NT	NT	NT	NT	NT	-	288
3-4	1/11/2016	3'	NT	NT	NT	NT	NT	-	176
	1/11/2016	4'	NT	NT	NT	NT	NT	-	624
	ND = Ar			se from Loa			cation sal with Hand A	uger	

On December 6, 2017, Talon mobilized peronnel to the site to complete a site assessment for the incident number nAB1711551324. A work plan was completed and approved by NMOCD on June 11, 2018. The samples were transported to Cardinal Laboratories and analyzed for Total Chlorides (SM4500Cl-B), and the data is summarized in the following Table 1c.

Table 1c
Site Assessment Analytical Data
Incident # nAB1711551324

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	Clorides mg/kg
	NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	DRO + 1,000	GRO = mg/kg		2,500 mg/kg	10,000 mg/kg
	12/6/2017	0'	NT	NT	NT	NT	NT	-	6,960
S-1	12/6/2017	1′	NT	NT	NT	NT	NT	-	1,040
	12/6/2017	2′	NT	NT	NT	NT	NT	-	336
S-2	12/6/2017	0'	NT	NT	NT	NT	NT	-	432
	12/6/2017	0'	NT	NT	NT	NT	NT	-	752
	12/6/2017	1'	NT	NT	NT	NT	NT	-	432
S-3	12/6/2017	2′	NT	NT	NT	NT	NT	-	704
	12/6/2017	3'	NT	NT	NT	NT	NT	-	496
	12/6/2017	4'	NT	NT	NT	NT	NT	-	496
S-4	12/6/2017	0'	NT	NT	NT	NT	NT	-	32
	2017 Produced Water Release Outside of Containment  NT = Not Tested								

Results from the assessment sampling events are presented in the following data tables and the complete laboratory reports can be found in Appendix V. Sample locations are shown on the attached Figure 1a through Figure 1c in Appendix I.

#### **Remediation Activities**

On July 16, 2020, upon client authorization Talon personnel and equipment were mobilized to the location in order to commence remediation activities and to remove impacted soil above NMOCD closure criteria. The impacted area on the pad was excavated to depths of three (3) feet bgs, correlating to incident numbers nAB1522442205 and nAB1616231629. The impacted area associated with incident number nAB1711551324 was hand excavated in accordance with the approved work plan to depths of two (2) feet bgs. Confirmation composite samples were taken from the respective bottom and sidewalls of the excavated areas where indicated on the site plan, and can referenced in Appendix I. All soil samples were properly contained, preserved, and transported to Hall Laboratories for analysis of Total Chlorides (EPA Method 300.0). The complete laboratory report for the remediation efforts are attached in Appendix V and the summarized data is presented in the following Table 2.

**Table 2**Site Closure Analytical Data

Sample ID	Sample	Depth	ВТЕХ	Benzene	GRO	DRO	MRO	Total TPH	Clorides
Sample 15	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	ole 1 Closure Ci L5.29 NMAC	riteria	50 mg/kg	10 mg/kg	DRO + GRO = 1,000 mg/kg			2,500 mg/kg	10,000 mg/kg
Incident # nAB1522442205 and nAB1616231629 (Releases from Loadout onto Pad Location)									
S-1	7/16/2020	1′	NT	NT	NT	NT	NT	-	1,100
S-2	7/16/2020	3′	NT	NT	NT	NT	NT	-	190
S-3	7/16/2020	3′	NT	NT	NT	NT	NT	-	310
S-4	7/16/2020	0.5′	NT	NT	NT	NT	NT	-	120
S-1 NSW 1'	7/16/2020	1′	NT	NT	NT	NT	NT	-	ND
S-1 SSW 1'	7/16/2020	1′	NT	NT	NT	NT	NT	-	720
S-2 NSW 3'	7/16/2020	3'	NT	NT	NT	NT	NT	-	460
S-2 SSW 3'	7/16/2020	3'	NT	NT	NT	NT	NT	-	110
S-3 NSW 3'	7/16/2020	3'	NT	NT	NT	NT	NT	-	290
S-3 SSW 3'	7/16/2020	3'	NT	NT	NT	NT	NT	-	320
S-4 ESW 0.5'	7/16/2020	0.5'	NT	NT	NT	NT	NT	-	340
S-4 WSW 0.5'	7/16/2020	0.5'	NT	NT	NT	NT	NT	-	140
Incident # nAB	1711551324 (2	017 Prod	uced Wate	r Release Out	side of Cont	ainment)			
S-1A	7/16/2020	2'	NT	NT	NT	NT	NT	-	200
S-2A	7/16/2020	2'	NT	NT	NT	NT	NT	-	1,000
S-3A	7/16/2020	2'	NT	NT	NT	NT	NT	-	88
ND = Analyte r	not detected	NT = Not 7		SW = North Sig		V = East Sid	de Wall	SSW = South	Side Wall
	WSW = West Side Wall								

### **Remedial Action Summary**

- All impacted areas on the pad location were excavated to depths of 0.5-3 feet bgs. Field titration of soil samples for Total Chlorides was utilized to guide the excavation process involving incident numbers nAB1522442205 and nAB1616231629.
- The impacted area associated with incident number nAB1711551324 was excavated to a depth of two (2) feet bgs. Field titration of soil samples for Total Chlorides was utilized to guide the excavation process.
- The area under the battery was assessed down to 10 feet bgs for the incident number nMLB1128636288. Based on depth to groundwater, closure criteria was not exceeded based on the laboratory analytical data.

- The excavated areas on the well pad were backfilled with new caliche, machine compacted and contoured to match the surrounding location.
- Approximately 1,032 cubic yards of excavated material was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- Photographic documentation is provided in Appendix IV.
- Copies of the Final C-141s are presented in Appendix III.

#### Closure

Based upon the completed remedial actions and confirmation sampling results, on behalf of Devon Energy Production Company, we respectfully request that no further actions be required and that closure of these incidents 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

Kayla Digitally signed by Kayla Taylor, On Taylor Changer, On Taylor

Project Manager

David J Digitally signed by David J Adkins Dick cm-David J Dick cm-Davi

David J. Adkins Regional Manager

Attachments:

Appendix I Site Maps

Appendix II Groundwater Data, Soil Data, FEMA Flood Map

Appendix III C-141 Forms, NMOCD Correspondence, Approved Work Plan for

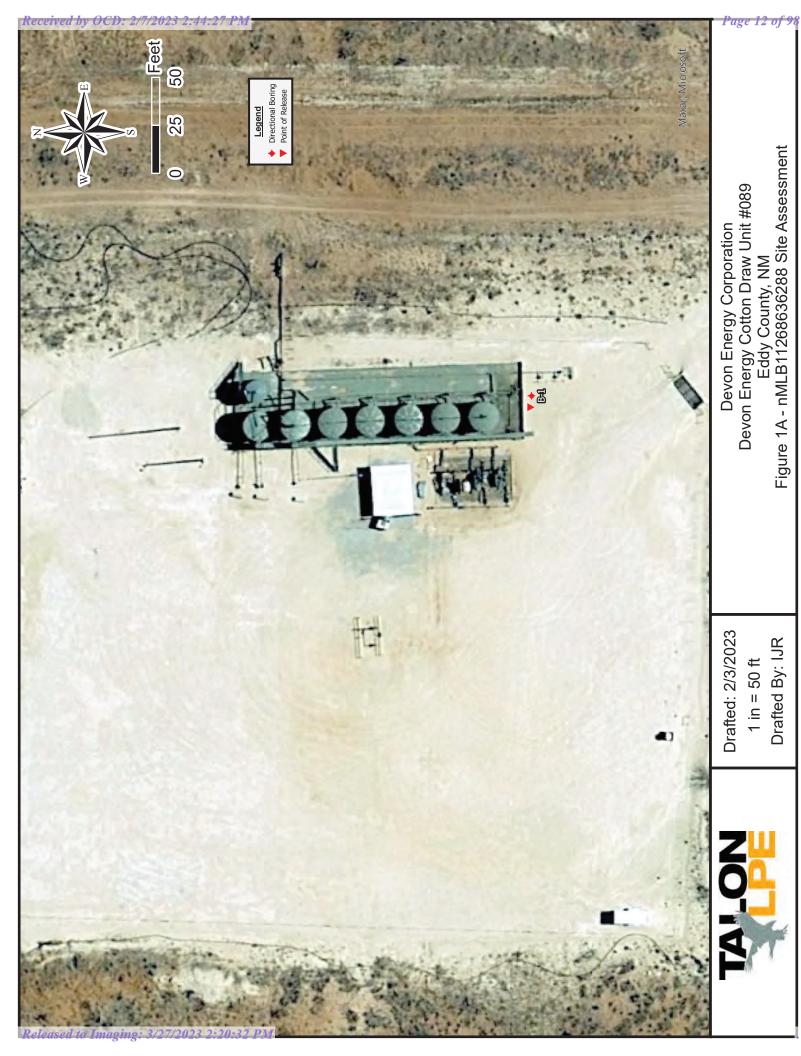
Incident Number nAB1711551324

Appendix IV Photographic Documentation Appendix V Laboratory Analytical Data



## **APPENDIX I**

Site Maps



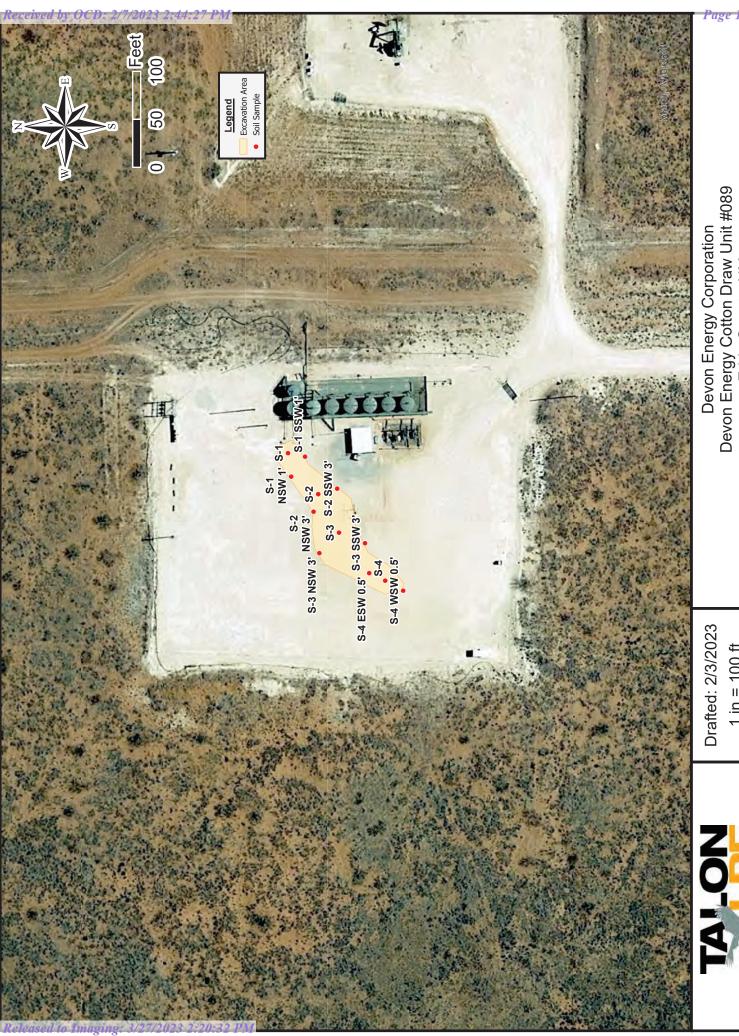


Eddy County, NM Figure 1B - nAB1522442205 and nAB1616231629 Site Assessment Devon Energy Corporation Devon Energy Cotton Draw Unit #089

Drafted: 2/3/2023 1 in = 100 ft

Drafted By: IJR

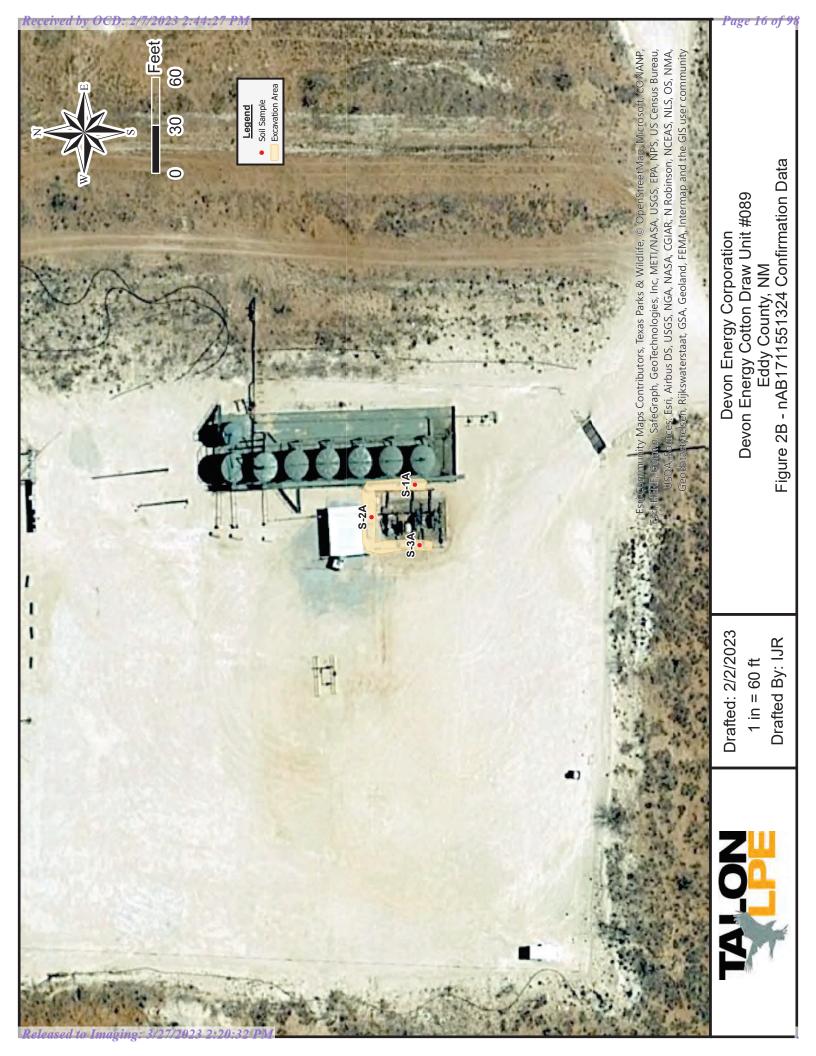


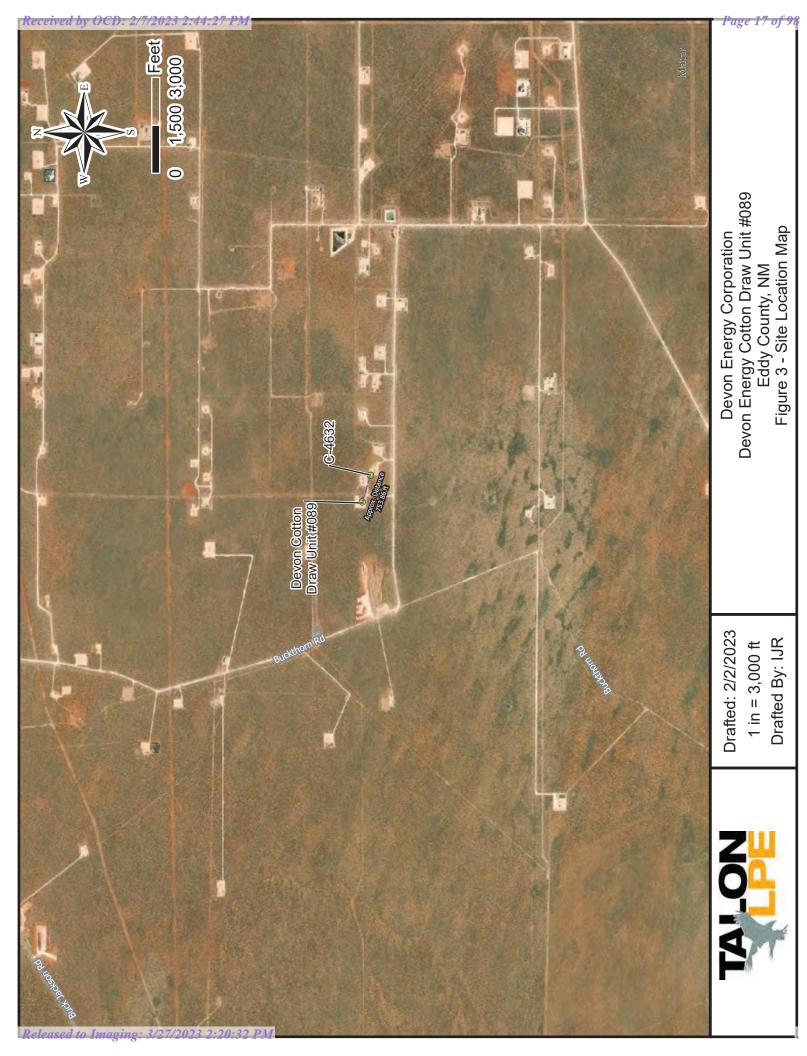


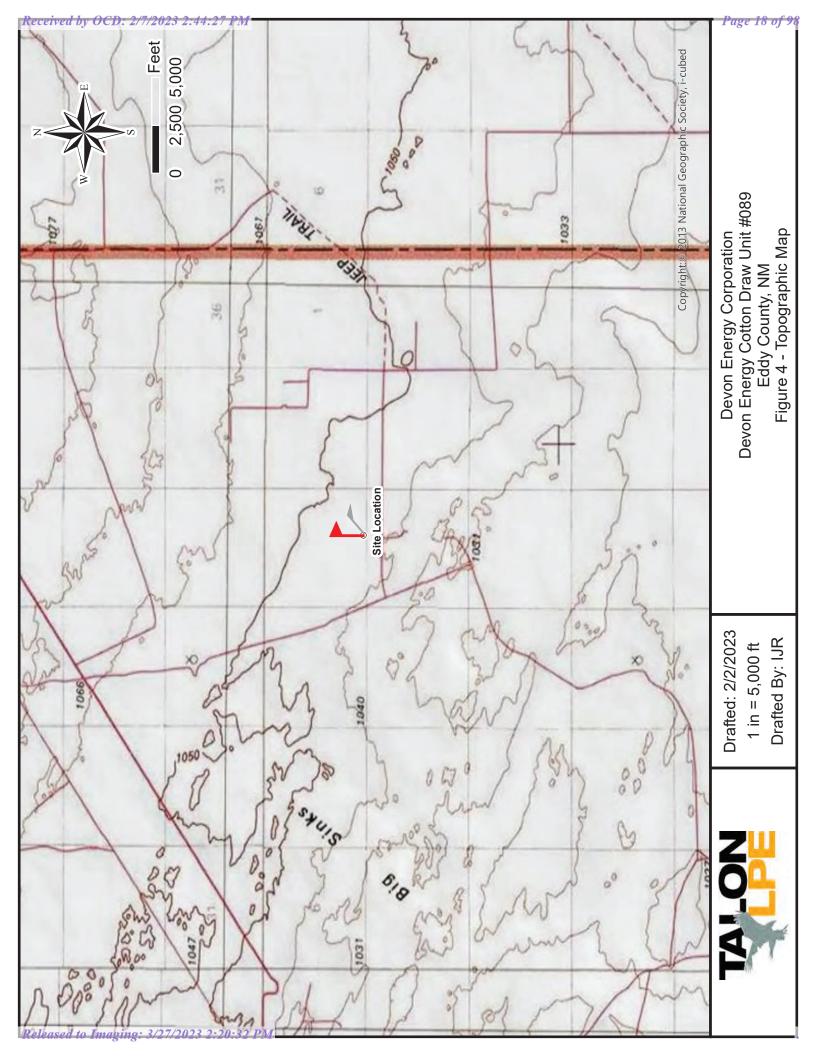
Eddy County, NM Figure 2A - nAB1522442205 and nAB161623162 Confirmation Data Devon Energy Corporation
Devon Energy Cotton Draw Unit #089

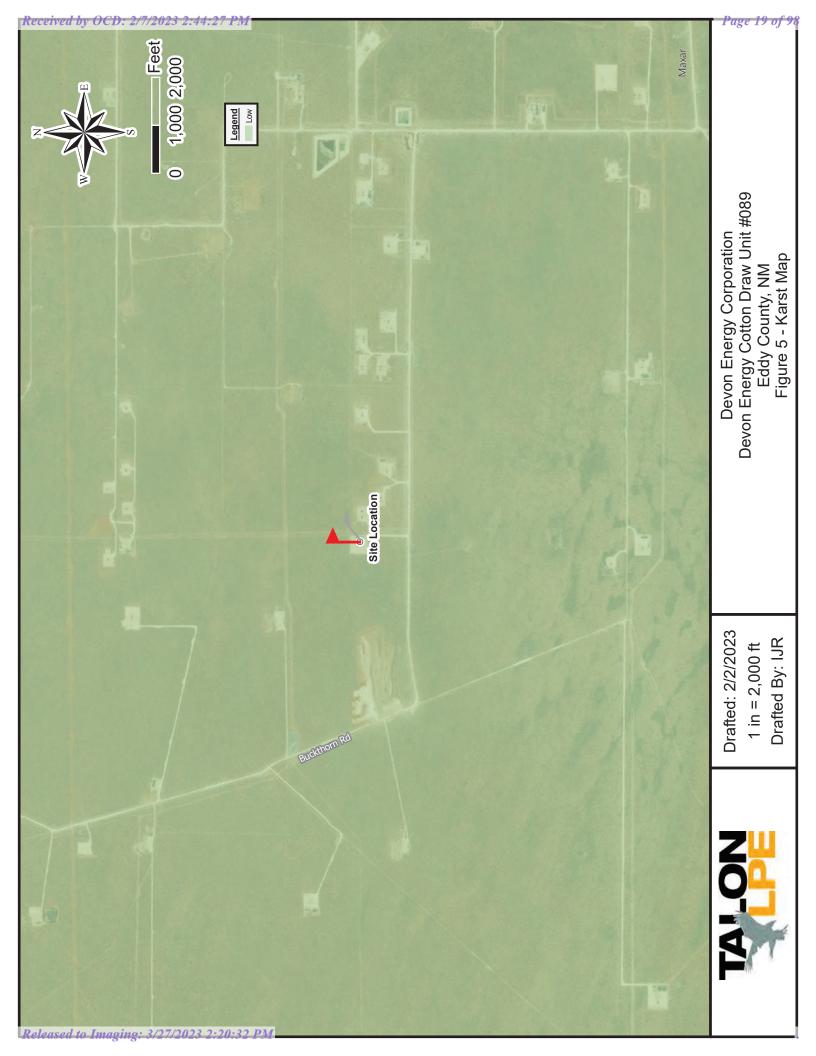
Drafted: 2/3/2023 1 in = 100 ft

**Drafted By: IJR** 











## **APPENDIX II**

Groundwater and Soil Data FEMA Flood Map



GENERAL AND WELL LOCATION	OSE POD NO. (C POD 1 (TW- WELL OWNER Devon Energ WELL OWNER 6488 7 Rive	1) NAME(S) Y MAILING	ADDRESS	R	ELL TAG ID NO	SECONE		OSE FILE NO C-4632 PHONE (OPTI 575-748-18 CITY Artesia	ONAL)	STA NM		ZIP
ERAL /	LOCATION (FROM GPS)		NGITUDE	32 103	9 45	41.00	N	- CONTRACTOR CONTRACTOR	REQUIRED: O		A SECOND	
1. GEN	A CONTRACTOR AND A CONT		IG WELL LOCATION TO T25S R31S NMPM		S AND COMMO	N LANDMAI	RKS – PL	SS (SECTION, TO	WNSHJIP, RAN	IGE) WHERE A	AVAILABLE	
	LICENSE NO. 1249		NAME OF LICENSED		kie D. Atkin	s			Frank Street, and Carlot 1975	ELL DRILLIN	G COMPANY ing Associates, I	nc.
	DRILLING STA 6/8/202		DRILLING ENDED 6/8/2022	DEPTH OF COMP Temp	LETED WELL (I	FT)		LE DEPTH (FT) ±55	DEPTH WA		COUNTERED (FT) N/A	
N	COMPLETED V	ELL IS:	ARTESIAN	DRY HOLE	SHALL	OW (UNCON	FINED)		WATER LEVE PLETED WELL		DATE STATIC	
ATIO	DRILLING FLU	ID:	☐ AIR	☐ MUD	ADDITI	VES – SPECI	FY:					
DRM.	DRILLING MET	HOD:	ROTARY HAMM	MER CABLE	TOOL V OT	HER – SPECI	Y: I	Hollow Stem	Auger	CHECK HERI INSTALLED	E IF PITLESS ADA	PTER IS
SING INF	DEPTH (fe	ret bgl)	BORE HOLE DIAM (inches)	(include eac	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) (add c				CASIN INSIDE D (inche	IAM.	ASING WALL THICKNESS (inches)	SLOT SIZE (inches)
& C	0	55	±6.5		ring-HSA		(uuu coup	oling diameter)			-	-
2. DRILLING & CASING INFORMATION												
											,	
٦	DEPTH (fe		BORE HOLE DIAM. (inches)		ANNULAR S					OUNT c feet)	METHO PLACEN	
IATERIA	FROM	то	DIAM. (menes)	GRAVE	L FACK SIZI	E-RANGE I	) I II II	ERVAL	(cub)	c reet)	TEACE	
3. ANNULAR MATERIAL									מַ שַּבְּנוֹ	7 JUN 16	Z0Z.Z bm3:)	2
FOR	OSE INTERN	AL USF						WR-2	0 WELL RE	CORD & LO	G (Version 01/2	8/2022)
		46	32		POD N	O. \	- oa 1	TRN		262	69	J. EVEL)
LOC			.31E.10	12	2			WELL TAG I	DNO.	_	PAGE	1 OF 2



# 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											
		Sub-		Q	Q (	Q						W	ater
POD Number	Code	basin	County	<b>64</b> 1	16	4 Sec	Tws	Rng	X	Y	DepthWellDept	hWater Col	umn
<u>C 02250</u>		CUB	ED	3	1	4 21	25S	31E	614912	3553620*	400	390	10
<u>C 02568</u>		CUB	ED	4	3	1 01	25S	31E	619103	3558892*	1025		
<u>C 02569</u>		CUB	ED	4	4	2 02	25S	31E	618699	3558891*	1016		
<u>C 02570</u>		CUB	ED	4	2	4 02	25S	31E	618704	3558489*	895		
<u>C 02571</u>		CUB	ED	4	1	2 02	25S	31E	618292	3559294*	860		
<u>C 02572</u>		CUB	ED	4	2	2 02	25S	31E	618695	3559294*	852		
<u>C 02573</u>		CUB	ED	1	4	2 02	25S	31E	618499	3559091*			
<u>C 02574</u>		CUB	ED	1	1	2 02	25S	31E	618092	3559494*			
C 03830 POD1		CUB	ED	4	2	4 02	25S	31E	618632	3558432	450		
C 04479 POD1		CUB	ED	2	1	1 04	25S	31E	614182	3559400	0	0	0
C 04500 POD1		CUB	ED	4	4	1 28	25S	31E	614620	3552380			
C 04619 POD1		CUB	ED	2	1	2 27	25S	31E	616750	3552958	55		
C 04624 POD1		CUB	ED	4	4	1 30	25S	31E	611501	3552305	120	0	120
C 04632 POD1		CUB	ED	1	2	2 10	25S	31E	616802	3557964	55		
C 04635 POD1		CUB	ED	4	3	4 01	25S	31E	619958	3558078	55		

Average Depth to Water:

Minimum Depth:

0 feet

Maximum Depth:

390 feet

130 feet

Record Count: 15

PLSS Search:

Township: 25S Range: 31E

 ${}^{*}\mathrm{UTM}$  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.

2/1/23 1:24 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

#### Custom Soil Resource Report

### **Eddy Area, New Mexico**

### BB—Berino complex, 0 to 3 percent slopes, eroded

#### **Map Unit Setting**

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

### **Map Unit Composition**

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Berino**

#### Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### Custom Soil Resource Report

#### **Description of Pajarito**

#### Setting

Landform: Interdunes, plains, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Linear, convex Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 9 inches: loamy fine sand H2 - 9 to 72 inches: fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

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 content: 40 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

#### Cacique

Percent of map unit: 4 percent

Ecological site: R042XC004NM - Sandy

Hydric soil rating: No

#### **Pajarito**

Percent of map unit: 4 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### Wink

Percent of map unit: 4 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### **Kermit**

Percent of map unit: 3 percent

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No



National Flood Hazard Layer FIRMette AREA OF MINIMAL FLOOD HAZARD Feet 35015C1650D eff. 6/4/2010 1,500 Eddy County 350120 500 250

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) AM 2018 A. V. A999

Cone A. V. ARS
With BFE or Depth Zone AE, AO, AH, VE, AR, OCD
Regulatory Floodway

HAZARD AREAS

SPECIAL FLOOD

0.2% Annual Chance Flood Hazard, Arreas

of 1% annual chance flood with average depth less than one foot or with drain areas of less than one square mile zone.

Future Conditions 1% Annual
Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Conditions. Zone X
I wee. See Notes. Zone X Area with Flood Risk due to Leveezone Levee. See Notes. Zone X

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard **Effective LOMRs** 

Area of Undetermined Flood Hazard Zone D

OTHER AREAS

Channel, Culvert, or Storm Sewer

STRUCTURES 1111111 Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect (B) 20.2

Base Flood Elevation Line (BFE) name (1) reason

Coastal Transect Baseline

OTHER

**FEATURES** 

Hydrographic Feature

Digital Data Available

No Digital Data Available Unmapped

MAP PANELS

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

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

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or The flood hazard information is derived directly from the was exported on 2/3/2023 at 11:51 AM and does not become superseded by new data over time.

This map image is void if the one or more of the following map delements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers.

FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

2,000 Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



### **APPENDIX III**

C-141 Forms

NMOCD Correspondence

Approved Work Plan for Incident Number nAB1711551324

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

30-015-31381

District IV

### State of New Mexico Energy Minerals and Natural Resources

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

**Release Notification and Corrective Action** 

Form C-141 Revised March 17, 1999 Submit 2 Copies to appropriate

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

MLB//2	86362	.88		OP	ERA	TOR		N In	nitial Re	port Final Re	port	
Name of C	Company	Devon E	nergy	6/37	7	Contact	Roger Herna	ndez				
Address I	P. O. Box	x 250				Telephone No. 575-748-5238						
Artesia, N	M 8821	1					¥					
Facility N	ame Cot	ton Draw	#89			Facility T	ype Gas W	ell				
Surface O	wner			Mineral	Owne	er			Lease	No.		
		<u> </u>		LOCA	TIO	N OF RE	LEASE					
Unit Letter	Section 3	Township 25S	Range 31E	Feet from the 250	North South	South Line	Feet from the 1980	East/V East	Vest Line	County Eddy County		
				NAT	URE	OF REL	EASE					
Type of Relea		sate				Volume o	f Release 28 BBL	S		Recovered 6 BBLS		
Source of Re		1 11 V-4 T-	1				Hour of Occurrence	ce		Hour of Discovery 9-20-11		
Lightening St Was Immedia			nk			9-20-11 If YES T	o Whom? Mike B	ratcher (	11:30 PM (OCD)			
, vus minoux			Yes 🗌	No 🗌 Not Re	equired		ell (BLM)	raterior (	(302)			
By Whom?							Hour 9-21-11 11					
Was a Water	course Read		Yes 🛛	No		If YES, V	olume Impacting t	the Wate	ercourse.			
			,							RECEIVED		
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*							I have been to be a second		
N/A										SEP 28 2011		
									N	MOCD ARTESIA		
		em and Reme										
				erglass produced ensate. The rest				sulted ii	n a release	of 28 bbls of condensate on		
Describe Are	a Affected	and Cleanup	Action Tak	en.*								
The well was	immediate	ly shút in, the	spill was c	ontained in the d	ike area	20'x 40' the	area was stained	but noth	ning standin	g. Will remove burned		
equipment an	d will now	convert this l	ocation to a	SWD well.		^						
I hereby certi	fy that the i	nformation g	iven above	is true and compl	lete to t	he best of my	knowledge and u	ınderstaı	nd that purs	suant to NMOCD rules and	-	
										eases which may endanger	ļ	
										ieve the operator of liability r, surface water, human healt	h	
or the environ	ment. In a	ddition, NM(	OCD accept	ance of a C-141	report d	oes not relie	ve the operator of	respons	ibility for c	ompliance with any other	1	
federal, state,	or local lay	ws and/or regu	ılations.						-			
							OIL CON	<u>SERV</u>	<u>'ATION</u>	DIVISION		
Signature: A	drien	ne Verk	ler					11/1	1 ,			
Signature. 7		70710				Approved by	Diene & Berry	101/4 Sot /4	DRAM	rdisk_		
Printed Name	: Adrienne	e Verkler		,			OCT 1 3 20	11				
Title: Field 7	Tech II					Approval Da		- 1	Expiration	Date:		
		Dhone: (575)	749 0174			*************			1	Attached		
Date: Sept. 2 Attach Ad						Conditions of	Approval:	es &				
Anach Au	uiuoiial	PHOCES II I	necessal	у	Ī	Remediation	on per OCD Rul	MOITA		2RP-91	2	
					Guid	lelines. <b>SU</b>	BMIT REMEDIA			0	_	

PROPOSAL NOT LATER THAN:

Page 28 of 98

Incident ID	nMLB1128636288
District RP	
Facility ID	30-015-31381
Application ID	

### **Closure**

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

Closure Report Attachment Checklist: Each of the following	owing 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 must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropria	ate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or filemay endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accepta compliance with any other federal, state, or local laws and/o restore, reclaim, and re-vegetate the impacted surface area to accordance with 19.15.29.13 NMAC including notification to Printed Name:	Date:2/7/2023
email: <u>dale.woodall@dvn.com</u>	Telephone: <u>575-74</u> 8-1838
OCD Only	
Received by:	Date:
	ible party of liability should their operations have failed to adequately investigate lwater, surface water, human health, or the environment nor does not relieve the e, or local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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. Frencis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Form C-14 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

		4422		1.		OPERAT		⊠ Ir	itial Report		
Name of Company Devon Energy Production U137							Contact Garry Michael Telephone No. 575-513-4895				
Address 6488 Seven Rivers Hwy Artesia, NM 88220 Facility Name Cotton Draw Unit 89						Facility Typ		95			
14-331528	RECEDITOR	CT- 0 2 2 2 2 2	92	lae i				LANK	N - 20 015 21201		
Surface Ov	vner Feder	al		Mineral	Owner	Federal	STANCE OF STREET	API	No. 30-015-31381		
			Company of the Compan			OF REI	and the second property of the second propert		· La		
Unit Letter O	Section 3	Township 25S	Range 31E	Feet from the 250'		South Line FSL	Feet from the 1980'	East/West Lin FEL	Eddy Eddy		
			Latit	u <b>de:</b> 32.1528893			gitude: -103.76	536414			
Page of Dale	sans Cuill			NAT	URE	OF RELI		Volum	ne Recovered		
Type of Rele	ease Spin					Volume of 35bbl	Release	25bbl	ne Recovered		
		gh pressure ho	ose			August 6, 2	Hour of Occurre 1015 5:04 PM		and Hour of Discovery st 6, 2015 5:04 PM		
Was Immed	late Notice		Yes 🗆	No 🗌 Not R	equired	If YES, To Jim Amos, Mike Brate	BLM		NM OIL CONSERVATION		
By Whom? Hubert Perry	, Production	Foreman					lour August 6, 2015 7 her, August 6, 20		ARTESIA DISTRICT AUG 1 1 2015		
Was a Wate	rcourse Re		Yes 🗵	No		If YES, Volume Impacting the Watercourse N/A RECEIVED					
If a Waterco N/A	ourse was I	npacted, Des	scribe Ful	y.*							
On August 6 pressure 4" h started recov Describe Ar The affected	, 2015 5:04 nose blew ap rering the rel rea Affected area was ap	art releasing : eased produc and Cleanup proximately 8	Draw United Sabble onted water in Action 780' x 120'	89 Truck Driver to location. The nmediately.	well was	immediately	shut in and the n	ext truck in line	r when the connecting high was Standard Trucking so they The broken hose will be repaired.		
I hereby cert regulations a public health should their o or the enviro	ify that the i ill operators or the envir operations h nment. In a	nformation gi are required to conment. The ave failed to	ven above o report ar acceptance adequately OCD accep	is true and comp id/or file certain e of a C-141 rep investigate and i	olete to the release near by the remediate	ne best of my otifications are NMOCD me contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions for eport" does not eat to ground w	oursuant to NMOCD rules and releases which may endanger relieve the operator of liability ater, surface water, human health or compliance with any other		
Signature: Sheila Fisher						OIL CONSERVATION DIVISION					
Printed Name	c: Sheila Fis	sher				Approved by	Environmental S	pecialist:	noce		
	Admin Supp	ort				Approval Dat	e: 01115	Expirat	on Date: NA		
Title: Field A	E-mail Address: Sheila.Fisher@dvn.com						Conditions of Approval: Remediation per O.C.D. Rules & Guidelinestached  SUBMIT REMEDIATION PROPOSAL NO				
Wall Wille	ess: Sheila.I	isher@dvn.	com	C 1007 X	a	Conditions of emediatio	Approval: n per O.C.D. I	Rules & Gui	deline atached		

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Incident ID	NAB1522442205
District RP	
Facility ID	30-015-31381
Application ID	

### **Closure**

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

Closure Report Attachment Checklist: Each of the fold	lowing items must be included in the closure report.
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☐ Laboratory analyses of final sampling (Note: appropri	iate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or filmay endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accept compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to	
	1
OCD Only	
OCD OIIIY	
Received by:	Date:
	sible party of liability should their operations have failed to adequately investigate dwater, surface water, human health, or the environment nor does not relieve the e, or local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 2/7/2023 2:44:27 PM District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III District IV 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

### **NM OIL CONSERVATION**

ARTESIA DISTRICT

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JUN 09 2016

Form C-141 Revised August 8, 2011

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

Oil Conservation Division 1220 South St. Francis Dr.

State of New Mexico

Energy Minerals and Natural Resources

	Santa Fe, NM 8/505											
Release Notification and Corrective Action												
NAI	8110110	23162	9	41	27	<b>OPERA</b>	OR		✓ Initia	al Report	П	Final Report
Name of Co	ompany D	evon Energy	Product	tion Company		ke Harrington,	Produc					
Address 64				No. 432-214-51								
Facility Name Cotton Draw Unit #89 Facility Type Salt Water Disposal												
Surface Ov	vner Feder	al		Mineral	Owner	Federal			API No	30-015-3	1381	
				1.00	TIO	N OF DEI	FASE					
Unit Letter	Unit Letter   Section   Township   Range   Feet from the   North				/South Line	Feet from the	East/V	Vest Line	County		-	
0	3	25S	31E	250	l	South	1980		East	Eddy		
			<u></u>	l	<u> </u>							
				Latitude: 32.1	52889.	3 Longitud	e: -103.763641	4				
				NAT	TIRE	OF RELI	FASE					
Type of Rele	ease Spill P	roduced wate	r	IIAI	UKE		Release 7 BBLS		Volume 1	Recovered (	6 BBLS	
Source of Re	elease						lour of Occurre		Date and	Hour of D	scover	
Strainer on w			ber 3			6/2/2016 @	<del></del>		6/2/2016	@ 10:40pm		
Was Immed	iate Notice	_	Yes [	No Not Re	eauired	If YES, To						
					-qan-ca	BLM-Jim						
By Whom?	Deceleration	C	)	EHC P. C.		Date and I						
Matt Netties,	Production	Poreman & E	sreu Pulks	s, EHS Profession	ai	1	2016 @ 11:04am 2016 @ 9:00am					
Was a Water	rcourse Re				-	<del></del>	lume Impacting	the Wa	tercourse			
			Yes 🔀	No		N/A						
If a Waterco	ourse was I	mpacted, Des	cribe Ful	ly.* N/A								
Describe Ca	use of Prob	lem and Ren	nedial Ac	tion Taken *		·						
				hree water injection	on pumj	o corroded res	ulting in a release	of 7 B	BLS of pro	duced water	. The n	umber 3
water injection pump was shut down immediately to prevent further release. The corroded plug was replaced on the strainer.												
Describe Ar	ea Affected	and Cleanu	p Action 7	Γaken.*								
7 BBLS of pr	roduced wat	er was release	ed from a	corroded plug on								
				south western par ered approximatel								
remediation.	i icit iocatio	ni. vacadin ti	dek recovi	стей аруложинаст	уовы	LS of the fele	вси риодисси жа	(CI. LIIV	Ironnicinai	agency will	i the con	itacica foi
** 1		C						1 .	1.1		000	1
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				ce of a C-141 repo								
				investigate and r								
		ws and/or regu		otance of a C-141	report c	loes not reliev	e the operator of	respons	ibility for c	ompiiance v	vitn any	otner
	,						OIL CON	SERV	'ATION	DIVISIO	ON	
Signature: So	arah Go	illegos-T	rouble	field				A.A	1/ 1/	4		
Dainta d Massa	Printed Name: Sarah Gallegos-Troublefield  Approved by Environmental Specialist:											
Printed Name	c. Saran Ga	negos-rrouoi	enera					pecialis	ι.		Δ	
Title: Field A	Admin Supp	ort		<u>.</u> .		Approval Dat	c:610116		Expiration	Date: N/	4_	
E-mail Addre	ace-Sarah C	allegae Tessi	hlefield@	dun com		Conditions	Approvale					
L-man Audit	cos. Salali.C	anegos-1100	ore neighbor	uvii.com	——  <sub>F</sub>	Conditions of Remediation	n per O.C.D.	Rules	& Guide	lin <b>és</b> tached		
Date: 6/9/201		one: 575.748.1			S	SUBMIT RE	MEDIATION	PROP	OSAL NO	<u> </u>		- A
Attach Addi	tional She	ets If Necess	ary		l	ATER THA	N:	110		$\mathcal{A}_{\mathbf{k}}$	少3'	128

Page 32 of 98

Incident ID	NAB1616231629
District RP	
Facility ID	30-015-31381
Application ID	

### Closure

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

Closure Report Attachment Checklist: Each of the follow	wing items must be included in the closure report.
	.5.29.11 NMAC
Photographs of the remediated site prior to backfill or p must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
□ Laboratory analyses of final sampling (Note: appropriate)	te ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file may endanger public health or the environment. The acceptar should their operations have failed to adequately investigate a human health or the environment. In addition, OCD acceptan compliance with any other federal, state, or local laws and/or	ironmental Professional
OCD Only	
OCD Only	
Received by:	Date:
	ole party of liability should their operations have failed to adequately investigate vater, surface water, human health, or the environment nor does not relieve the or local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

### NM OIL CONSERVATION

ARTESIA DISTRICT

Page 33 of 98

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

Type of Release

State of New Mexico Energy Minerals and Natural Resources APR 2 1 2017

Form C-141 Revised August 8, 2011

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

RECEIVED accordance with 19,15.29 NMAC.

Volume Recovered

			Rele	ease Notific	cation and Co	orrective A	ction			
DAB	7115	51324			OPERA Contact N	TOR		al Report		Final Report
Name of C	ompany D	evon Energy	y Product	ion Company	1/37 Contact N	latt Nettles, Pro	duction Foreman			
Address 64	88 Seven	Rivers Hwy	Artesia, I	VM 88210	Telephone	No. 575-513-57	67			
Facility Name Cotton Draw Unit 89 Facility Type Salt Water Disposal										
Surface Owner Federal Mineral Owner Federal API No 30-015-31381										
				LOCA	ATION OF RE	LEASE				
Unit Letter O	Section 3	Township 25S	Range 31E	Feet from the 250	North/South Line FSL	Feet from the 1980	East/West Line FEL	County Eddy		
			La	titude: 32.1528	1893 Lon	gitude: -103.763	36414	!		

NATURE OF RELEASE

Volume of Release

Produced Water	16bbls	5BBLS			
Source of Release Water tanks	Date and Hour of Occurrence 4/10/2017 @ 10:00 PM	4/10/2017 @ 10:00 PM 4/10/2017 @ 10:00 PM			
Was Immediate Notice Given?   ⊠ Yes □ No □ Not Req	quited If YES, To Whom? BLM OCD				
By Whom? David Simmons, Assistant Production Foreman	Date and Hour BLM-4/10/2017 @ 11:00 PM OCD-4/10/20107 @11:02 PM				
Was a Watercourse Reached?  ☐ Yes ☒ No	If YES, Volume Impacting the V N/A	Vatercourse			
If a Watercourse was Impacted, Describe Fully.*					
feeding the pump was closed and the plug was replaced.					
Describe Area Affected and Cleanup Action Taken.* Approximately 16bbls produced water was released outside of contremediation contractor will be contacted to assist with remediation	tainment. A vacuum truck was dispatched a efforts.	and recovered 5BBLS of produced water.			
Approximately 16bbls produced water was released outside of contremediation contractor will be contacted to assist with remediation.  I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain religible health or the environment. The acceptance of a C-141 reportshould their operations have failed to adequately investigate and report the environment. In addition, NMOCD acceptance of a C-141 report the environment.	ete to the best of my knowledge and underst lease notifications and perform corrective ar the by the NMOCD marked as "Final Report" mediate contamination that pose a threat to	tand that pursuant to NMOCD rules and ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health			
Approximately 16bbls produced water was released outside of contremediation contractor will be contacted to assist with remediation.  I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain reliquible health or the environment. The acceptance of a C-141 reportshould their operations have failed to adequately investigate and report the environment. In addition, NMOCD acceptance of a C-141 refederal, state, or local laws and/or regulations.	efforts.  ete to the best of my knowledge and understelease notifications and perform corrective art by the NMOCD marked as "Final Report" mediate contamination that pose a threat to eport does not relieve the operator of response	tand that pursuant to NMOCD rules and ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health			
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Page 34 of 98

Incident ID	NAB1711551324
District RP	
Facility ID	30-015-31381
Application ID	

### Closure

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

Closure Report Attachment Checklist: Each of the	e following items must be included in the closure report.
A scaled site and sampling diagram as described in	n 19.15.29.11 NMAC
Photographs of the remediated site prior to backfi must be notified 2 days prior to liner inspection)	ill or photos of the liner integrity if applicable (Note: appropriate OCD District office
□ Laboratory analyses of final sampling (Note: approximately ap	ropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/omay endanger public health or the environment. The action should their operations have failed to adequately investifuant health or the environment. In addition, OCD accompliance with any other federal, state, or local laws a restore, reclaim, and re-vegetate the impacted surface an accordance with 19.15.29.13 NMAC including notificate Printed Name: Dale Woodall Title: Signature: Dale Woodall Title: Dale Woodall Title: Signature:	Date:2/7/2023
email:Dale.wooda <u>ll@dvn.com</u>	Telephone: <u>575-74</u> 8-1848
OCD Only	
Received by:	Date:
	ponsible party of liability should their operations have failed to adequately investigate oundwater, surface water, human health, or the environment nor does not relieve the state, or local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



# Soil Assessment and Remediation Work Plan

Cotton Draw Unit 89 API # 30-015-31381 \* 2RP-4186 Talon Project No. 700794.241.01

### **Prepared For:**

Devon Energy Production 6488 Seven Rivers Hwy Artesia, New Mexico 88210

### Prepared By:

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

March 16, 2018

Page | 1

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1<sup>st</sup> Street Artesia, NM 88210

Subject: Soil Assessment and Remediation Work Plan

Cotton Draw Unit 89

API # 30-015-31381 \* 2RP-4186

Dear Mr. Bratcher,

Devon Corporation has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

#### Site Information

The Cotton Draw Unit 89 is located approximately forty-four (44) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter O, Section 3, Township 25 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1528893 North and -103.7636414 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 of Berino complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with hard caliche.

### Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that there are 7 wells in the vicinity and they all appear to be dry. The Chevron/Texaco Water Trend Map has the ground water in this area to be greater than 450-feet below ground surface. See Appendix III for the referenced groundwater data.

Therefore the ranking for this site is a 0 based on the following:

Depth to ground water >100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH. The recommended guidelines for total chlorides is 600 mg/kg.

## Incident Description and Initial Remedial Actions

On May 10, 2017 a filter screen plug was missing on the triplex pump causing 16 barrels of produced waste to be released outside of the containment. A vac truck was called to the location and recovered 5 barrels of fluid. The main supply valve feeding the pump was closed and the plug was replaced. A site plan is presented in Appendix I which illustrates the impacted area. See initial C-141 in Appendix II.

On December 6, 2017, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected from around the impacted area utilizing a hand auger.

See Appendix IV for complete report of laboratory results.

Sample ID	Depth (feet)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
S-1	0,			-		6960
	1'	-	-	-		1040
	2'	-	-	-	-	336
S-2	0,	-	-	÷	÷	432
S-3	0,			4 2	H.	752
	1'	-	-	-	-	432
	2'	-		-	-	704
	3'	-	-	-	-	496
	4'		-	-		496
S-4	0,	- 1	4	-	+	32

<sup>--</sup> Analyte Not Tested

## **Proposed Remedial Actions of:**

- The impacted soil in the vicinity of S-1 and S-3, as well as the flow paths southward will be excavated to a depth of 2-feet deep.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche. Once the backfilling activities are complete the work area will be contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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

Jacob Laird

**Environmental Scientist** 

Limberly M. Welson

Project Manager

### Attachments:

Appendix I Site Plan

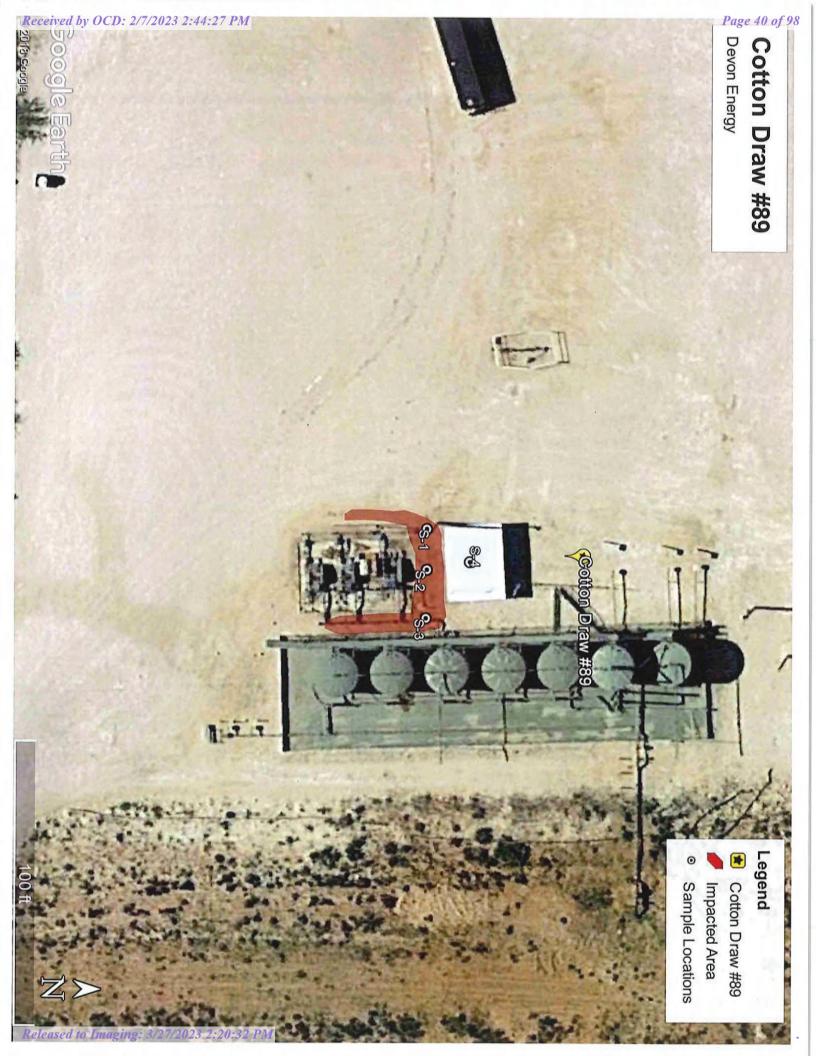
Appendix II Initial C-141

Appendix III Groundwater Data

Appendix IV Laboratory Results

**APPENDIX I** 

**SITE PLAN** 





# **APPENDIX IV**

Photographic Documentation

# **Devon Energy Cotton Draw Unit #89 SWD**

# **Photo Documentation**



Excavation 2RP-3198/2RP-3728



2RP-4186



# **Devon Energy Cotton Draw Unit #89 SWD**

# Completion



Completion 2RP-4186



2RP-3198/2RP-3728





# **APPENDIX V**

**Analytical Data** 



September 18, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW NO. 89

Enclosed are the results of analyses for samples received by the laboratory on 09/17/15 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

09/17/2015

Reported:

09/18/2015

Project Name:

COTTON DRAW NO. 89

Project Number: Project Location: 700794.165.01

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

Soil \*\* (See Notes)

Jodi Henson

09/16/2015

EDDY CTY.

Sample ID: S-1 1' (H502452-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

mg/kg

2800

Result

160

Analyzed By: HM

Analyte Result

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 09/18/2015 Method Blank ND

BS 432

BS

432

% Recovery 108

True Value QC 400

400

400

True Value QC

400

RPD Qualifier

3.77

Sample ID: S-1 2' (H502452-02)

Chloride, SM4500CI-B

Analyte

Analyzed By: HM

09/18/2015

Analyzed Method Blank

True Value QC % Recovery

108

108

RPD

3.77

Qualifier

Sample ID: S-1 3' (H502452-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result Chloride 144

Analyzed 09/18/2015

Method Blank ND

ND

BS 432

True Value QC % Recovery

RPD

3.77

Qualifier

Sample ID: S-1 4' (H502452-04)

Analyte

Chloride, SM4500Cl-B

Chloride

mg/kg

Result

64.0

Analyzed By: HM

Reporting Limit Analyzed 16.0 09/18/2015 Method Blank ND

BS 432 % Recovery 108

RPD

3.77

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4

ND



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

### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories \*=Accredited Analyte

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

Celegy Keens

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

† Cardinal cannot accept verbal changes. Please fax written changes to 505,393.2476



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS ANALYSIS	# CO	PLEASE NOTE: Liability and Damages. Cardinat's liability and cleant's exclusive remedy for any claim stining whether based in contract or tart, shall be limited to the amount paid by the cleant for the amount paid by the cleant for the amount paid by the cleant for the	Address: WS W State: WS Address: WS W State: WS Project WS W Fax #: Project #: 746 - 8768	Company: 1000  City:  State: Zip:  Phone #:  Fax #:  Phone #:  Fax #:  OTHER SOIL  OIL SLUDGE  OTHER SOIL  OIL SLUDGE  OTHER To be deserted to be deserted to be deserted to be deserted by Cardinal within 30 days after completion for the supplication, be deserted within 10 days and recorded by Cardinal within 30 days after completion for the supplication, and cities an electrical processor of the deserted within 30 days after completion for the supplication of methods and upon any of the desert at the fax Ressult:  Regerved By:  Cool Inflacy  CHECKED BY:  Cool Inflacy  CHECKED BY:  CH	ANALYSIS REQUEST  ANALYSIS REQUEST  Over the state of the
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Page 4 of 4



January 13, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #89

Enclosed are the results of analyses for samples received by the laboratory on 01/11/16 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552:2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

01/11/2016

Reported:

01/13/2016

Project Name: Project Number: **COTTON DRAW #89** 700794.165.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Jodi Henson

01/11/2016

Sample Received By:

### Sample ID: S-2 1.0 (H600056-01)

Chloride,	SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit 720 16.0

Analyzed 01/13/2016

Analyzed

01/13/2016

Method Blank ND

BS 400

% Recovery 100

True Value QC 400

RPD Qualifier

Sample ID: S-2 2.0 (H600056-02)

Chloride, SM4500CI-B

Analyte

mg/kg

Reporting Limit

16.0

Analyzed By: AP

Method Blank

% Recovery

100

True Value QC

400

400

RPD Qualifier

0.00

0.00

Sample ID: S-2 3.0 (H600056-03)

Chloride, SM4500CI-B

mg/kg

Result

1880

Analyzed By: AP

Analyte Result Reporting Limit 128 16.0

Analyzed

01/13/2016

Method Blank ND

ND

BS 400

BS

400

BS

400

True Value QC % Recovery 100

RPD 0.00

Qualifier

Sample ID: S-2 4.0 (H600056-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Chloride 80.0

Reporting Limit 16.0

Analyzed 01/13/2016 Method Blank ND

% Recovery 100

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celleg & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

01/11/2016

Reported: Project Name: 01/13/2016

Project Number: Project Location: COTTON DRAW #89 700794.165.01

EDDY COUNTY, NM

Sampling Date:

01/11/2016 Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-3 1.0 (H600056-05)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Analyte

Analyte

Analyte

Result Reporting Limit 2600 16.0

Method Blank Analyzed 01/13/2016 ND

100

% Recovery

True Value QC 400

RPD

0.00

0.00

0.00

Qualifier

Sample ID: S-3 2.0 (H600056-06)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyzed

01/13/2016

Analyzed

01/13/2016

Method Blank

ND

BS

400

BS

400

% Recovery True Value QC

100

RPD

Qualifier

Sample ID: S-3 3.0 (H600056-07)

Chloride, SM4500CI-B

mg/kg

Result

2080

Result

2840

Analyzed By: AP

Method Blank

BS

400

% Recovery

100

True Value QC

400

400

RPD Qualifier

Sample ID: S-3 4.0 (H600056-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

% Recovery

True Value QC

RPD

Qualifier

Result

624

Result

2320

01/13/2016

Analyzed

ND

400

100

% Recovery

100

400

Chloride

Chloride

Sample ID: S-4 1.0 (H600056-09)

mg/kg

0.00

Analyte

Chloride, SM4500Cl-B

Analyzed By: AP

Analyzed

01/13/2016

Method Blank

ND

BS

400

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Received:

01/11/2016

Reported: 01/13/2016

Project Name: Project Number:

Analyte

Analyte

Analyte

COTTON DRAW #89

Project Location:

700794.165.01 EDDY COUNTY, NM Sampling Date:

01/11/2016 Sampling Type: Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S-4 2.0 (H600056-10)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Result 288

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 01/13/2016

Analyzed

01/13/2016

Method Blank ND

Method Blank

ND

BS 400

BS

400

BS

400

% Recovery 100

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-4 3.0 (H600056-11)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

% Recovery

100

True Value QC

400

RPD Qualifier

0.00

Sample ID: S-4 4.0 (H600056-12)

Chloride, SM4500CI-B

mg/kg

Result

176

Result

624

Analyzed By: AP

Analyzed 01/13/2016 Method Blank ND

% Recovery 100

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keins

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7

ND



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

### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7

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# CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

107 East Warland, 110400, 101	ANALYSIS	REQUEST
Company Name: Talon/I PF		
	Tolor DE	
W. Texas Ave.	dily.	
	Attn:	
74	Address:	
10,5	City:	
Cotton Dana	State: Zip:	
COLOR CAN	Phone #:	
Project Location: EUVY		
Sampler Name: 1500 Swift	PRESERV. SAMPLING	
R (C)OMP. NERS WATER	SE: OL	
CONTA ROUNI VASTEV	DATE TIME	
	11/11/6 11/37	
2000	1136 ×	
3,0	× 50, c1	
PLEASE NOTE: Liability and Damages. Cardical's liability and elemits exclusive seamenty for any claim analogy whether based in norman must, which by Cardian within 30 days after completion at the applicable pressure whether the completion at the applicable pressure whether the completion at the applicable pressure whether the completion and the pressure of the completion of the completion at the applicable pressure whether the completion and the completion of the applicable pressure whether the completion of th		
analyses, re-event and Countral to liable for inclinated or emergenetal dampets, floatering witness and exactive such applications of executing the country of the country of executing the country	biguidess of whether such dain is based upon any of the above stated Phone Result: ☐ Yes ☐ No Add'! Phone #3.    Phone Result: ☐ Yes ☐ No Add'! Fax #3.	
isped By:		
Reflectusined By:  Time:		
1100	Sample Condition CHECKED BY:  Cool Intact (hitials)	
Sampler - UPS - Bus - Other:	o No W	

2

Page 7 of 7

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-3326

# CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariano, 10000, 1011 507-1076		ANALYSIS REQUEST
15		
I alonyLFE	P.O. #	
	company: Talon/LPE	
Address: 408 W. Texas Ave.	8210 Attn:	
Fax #: 575-7	905 Address:	
10 541 46401	(or) city:	
Dan III	State: Zip:	
otton bruse	Phone #:	
Project Location: Eddy CTV		
Sampler Name: his Swift	ESERV. SAMPLING	
(c)omp.	VATER TER	
D. CONTA	ROUNE JASTEV OIL. DIL. DIL BLUDGE OTHER CE / CC OTHER	
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5-2	V (0,1)	
2-5		
	1.39 X	
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	1/43 X	
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unalyses. All claims including those for nephpenes and any other cause wassesses and exploiting without finitation, business interrapt sarvine. In no event shall Caudinal be liable for inclorated or consequences of damages, including without finitation, business interrapt sarvine. In no event shall Caudinal be liable for inclorated or consequences, the explorate for Caudinal, regardless of whether such	Including willhold similation, business interruptions, loss of use, or loss or pure necessary of characters of otherwise index by Cardinal, reparatess of whether such claim is based upon any of the above named reasons of otherwise index by Cardinal, reparatess of whether such claim is based upon any of the above named reasons of Otherwise.	Yes I No Add'I Phone #:
Relinquished By:	REMARKS:	□ No
	Received By:	
Delivered By: (Circle One)		
Sempler IIPS - Bus - Other:	The Tres Tres	

Page 6 of 7



December 09, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #89

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keina

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 12/06/2017 12/09/2017

Project Name: Project Number: COTTON DRAW #89 700794.244.01

Project Location: EDDY COUNTY, NM Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: 12/05/2017

Cool & Intact

Tamara Oldaker

### Sample ID: S-1 0' (H703364-01)

Chloride,	SM4500CI-B
-----------	------------

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte Result 6960

Reporting Limit 16.0

Analyzed 12/07/2017

Analyzed

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-1 1' (H703364-02)

Chloride,	SM4500CI-B

Analyte

Analyte

Analyte

Cardinal Laboratories

mg/kg	

Analyzed By: AC

Result Reporting Limit 1040 16.0

Reporting Limit

16.0

Reporting Limit

16.0

Method Blank 12/07/2017

BS 448

BS

448

% Recovery 112

True Value QC 400

RPD

Qualifier 0.00

Sample ID: S-1 2' R (H703364-03)

Chloride, SM4500CI-B

mg/kg

Result

336

Result

432

Analyzed By: AC

Analyzed

12/07/2017

Method Blank

ND

ND

% Recovery

112

True Value QC

400

RPD 0.00 Qualifier

Qualifier

Sample ID: S-2 0' (H703364-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

12/07/2017

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 0.00

\*=Accredited Analyte

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Celeg Theene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/06/2017

Reported: Project Name: 12/09/2017 COTTON DRAW #89 ·

Project Number:

700794.244.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

12/05/2017

Soil

Cool & Intact

Tamara Oldaker

### Sample ID: S-2 0.5' R (H703364-05)

Chloride,	SM4500C	I-B
-----------	---------	-----

mg/kg

Analyzed By: AC

Analyte

Result

1060

Reporting Limit

16.0

Reporting Limit

Analyzed 12/07/2017

Analyzed

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-3 0' (H703364-06)

Chloride,	SM4500CI-B
-----------	------------

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

% Recovery

112

True Value QC

400

Oualifier

Chloride

Chloride

752

Result

16.0 12/07/2017 Method Blank ND

BS 448

RPD 0.00

Sample ID: S-3 1' (H703364-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

Qualifier

Chloride

Result 432

16.0

Reporting Limit

16.0

Reporting Limit

16.0

12/07/2017

Analyzed

Method Blank ND

BS 448

112

True Value QC 400

RPD

Sample ID: S-3 2' (H703364-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

0.00

Chloride

Chloride

Result

704

Result

496

Reporting Limit

Analyzed 12/08/2017 Method Blank ND

BS 448 % Recovery 112

112

True Value QC

400

400

RPD

Qualifier

Sample ID: S-3 3' (H703364-09)

Chloride, SM4500CI-B

Analyzed By: AC

0.00

Qualifier

mg/kg

Analyzed

12/08/2017

Method Blank

ND

% Recovery

BS

448

True Value QC

RPD 0.00

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



### Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 12/06/2017 12/09/2017

Project Name: Project Number: **COTTON DRAW #89** 

Project Location:

Analyte

700794.244.01 EDDY COUNTY, NM Sampling Date: Sampling Type:

Sampling Condition:

Sample Received By:

12/05/2017

Soil Cool & Intact

Tamara Oldaker

Sample ID: S-3 4' (H703364-10)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Result Reporting Limit 496 16.0

Analyzed 12/08/2017 Method Blank ND

448

% Recovery 112

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-4 0' (H703364-11)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result 32.0 16.0

Analyzed 12/08/2017 Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD Qualifier 0.00

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7

ND



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

### **Notes and Definitions**

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariana, 100-133-2476	
(5/5) 393-2326 FAX (3/3/305 =	011118
V. Texas Ave.	Company:   alUli/L
State: NM	0
Phone #: 575-746-8768 Fax #: 575-746-8905	
Project #: 100 794, 24, 0/ Project Owner:	City:
1 to	ZIp:
Edd All	Phone #:
Project Location: Cully Carl	
Sampler Name: Kim Willaut	ESERV. SAMPLING
FOR LAB USE ONLY	MATER ATER  SE: DL
Lab I.D. Sample I.J.	GROUND WASTEW SOIL OIL SLUDGE OTHER: ACID/BA ICE / CO OTHER
H103564	
2 3-1 1	
اراد	
50205/2	
6 5-3 0'	
7 5-3 /	
2 5-3 8	
10 S-3 4	0 5-3 4  Contract behavior and Characters Cardinal's liability and clearits exclusive remedy for any claim string whether based in contract or tort, shall be limited to the dimount raid by the client for the client for the policiable of the applicable of the policiable of the polic
analyses. All claims including those for negligence and any turns request manages, including service, in no event shall Cardinal be static for incidental or consequential damages, includes the conformance of services hareunder.	analyses. All claims including those for negligatings and any care cause including without limitation, business interruptions, loss of use, or warmer including those for negligatings and any care cause in the event shall Cardinal be labele for including understanded margers, including without limitation, business interruptions, loss of use, or warmer in the cardinal or care caused in the cardinal content of the cardinal including without limitation, business interruptions, loss of use, or warmer in the cardinal or care care care care care care care car
Relinquished By:	5
Relinquished By: Date: 00	Received by:
Much Sinie One	Sample Condition
1.450	Corrected Dives Dives B.D. 470
2	1



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinals's liability and client's exclusive remedy for please. All claims including boses for regispense and any other cause whatsoevers shall be analyses. All claims including boses for regispense and any other cause whatsoevers shall be analyses. The event shall Cardinal be liable for incidental or consequential camages, including services between the shall be analysed as envices between the particular to the particular by affiliates or succession arising out of or related to the particular by affiliates. Time:  Relinquished By:  Relinquished By:  Circle One)  Sampler - UPS - Bus - Other:	Company Name: Tajon/LPE  Company Name: Tajon/LPE  Project Manager: M. Texas/Ave.  Address: 408 W. Texas/Ave.  State: NM Zi City: Artesia Phone #: 575-746-8768  Project #: 700794. 344.0  Project Name: College Project Owner: Sampler Name: W. Sample I.D.  Lab I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.	101 East Marland, Hobbs, NW 00240
Any carm arising whether based in contract or fort, shall be limited to the amount paid by the cleant for the document and which cleans are investigated by Cardinal within 30 days after compeletion of the applicable document inhalted inhalted in subdishards, gavilhout shralled invalines a disherted strength on the above strated research or otherwise.  Received By:  Received By:  CHECKED BY:  COOL Intact  COOL Intact	State: NM Zip: 88210	
Pes □ No Add'! Phone #: □ Yes □ No Add'! Fax #:		ANALYSIS REQUEST



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

July 20, 2020

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Cotton Draw Unit 89 OrderNo.: 2007963

### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 15 sample(s) on 7/18/2020 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,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** Talon Artesia

Chloride

53808

# **Analytical Report**

20 7/19/2020 7:54:29 PM

Lab Order **2007963**Date Reported: **7/20/2020** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-1'

mg/Kg

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:03:00 PM

 Lab ID:
 2007963-001
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

1100

Analyses Result RL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS

Result RL Qual Units DF Date Analyzed Batch

Analyst: JMT

60

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

### 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 Quanitative 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

Page 1 of 16

Analytical Report
Lab Order 2007963

Date Reported: 7/20/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-1 N SW 1'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:06:00 PM

 Lab ID:
 2007963-002
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 ND
 60
 mg/Kg
 20
 7/19/2020 5:15:26 PM
 53811

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

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 Quanitative 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

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Lab Order **2007963** 

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-1 S SW 1'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:10:00 PM

 Lab ID:
 2007963-003
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 720
 60
 mg/Kg
 20
 7/19/2020 5:52:41 PM
 53811

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

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 Quanitative 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

Page 3 of 16

Analytical Report
Lab Order 2007963

Date Reported: 7/20/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-2 3'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:13:00 PM

 Lab ID:
 2007963-004
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 190
 60
 mg/Kg
 20
 7/19/2020 6:05:05 PM
 53811

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

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 Quanitative 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

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Lab Order 2007963

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-2 N SW 3'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:15:00 PM

 Lab ID:
 2007963-005
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 460
 60
 mg/Kg
 20
 7/19/2020 6:17:30 PM
 53811

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

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 Quanitative 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

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Lab Order **2007963** 

Date Reported: 7/20/2020

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-2 S SW 3'

CLIENT: Talon Artesia

Client Sample ID: S-2 S S

Project: Cotton Draw Unit 89

Collection Date: 7/16/202

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:30:00 PM

 Lab ID:
 2007963-006
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	110	60	mg/Kg	20	7/19/2020 6:29:54 PM	<i>I</i> 53811

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

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 Quanitative Limit

- 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

Page 6 of 16

Lab Order 2007963

Date Reported: 7/20/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-3 3'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:34:00 PM

 Lab ID:
 2007963-007
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 310
 60
 mg/Kg
 20
 7/19/2020 6:42:18 PM
 53811

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

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 Quanitative 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

Page 7 of 16

Lab Order **2007963** 

# Hall Environmental Analysis Laboratory, Inc. Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-3 N SW 3'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:35:00 PM

 Lab ID:
 2007963-008
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 \*\* Analyst: JMT

 Chloride
 280
 60
 mg/Kg
 20
 7/19/2020 7:19:32 PM
 53811

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

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 Quanitative 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

Page 8 of 16

Analytical Report
Lab Order 2007963

Date Reported: 7/20/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

**Project:** Cotton Draw Unit 89

**Lab ID:** 2007963-009

Client Sample ID: S-3 S SW 3'

**Collection Date:** 7/16/2020 12:36:00 PM

**Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	320	60	mg/Kg	20	7/19/2020 7:31:57 PM	M 53811

Matrix: SOIL

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

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 Quanitative 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

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Lab Order 2007963

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-4 0.5'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:38:00 PM

 Lab ID:
 2007963-010
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 120
 60
 mg/Kg
 20
 7/19/2020 7:44:21 PM
 53811

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

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 Quanitative 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

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Lab Order 2007963

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-4 W SW 0.5'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:41:00 PM

 Lab ID:
 2007963-011
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 140
 60
 mg/Kg
 20
 7/19/2020 7:56:45 PM
 53811

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

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 Quanitative 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

Page 11 of 16

Chloride

53811

### **Analytical Report**

Lab Order **2007963** 

20 7/19/2020 8:09:09 PM

Date Reported: 7/20/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S-4 E SW 0.5'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:44:00 PM

 Lab ID:
 2007963-012
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

340

Analyses Result RL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS

Result RL Qual Units DF Date Analyzed Batch

Analyst: JMT

61

mg/Kg

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

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 Quanitative 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

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Lab Order 2007963

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-1 A 2'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:50:00 PM

 Lab ID:
 2007963-013
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 200
 60
 mg/Kg
 20
 7/19/2020 8:21:34 PM
 53811

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

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 Quanitative 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

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Lab Order 2007963

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-2 A 2'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 12:54:00 PM

 Lab ID:
 2007963-014
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 1000
 60
 mg/Kg
 20
 7/19/2020 8:33:59 PM
 53811

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

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 Quanitative 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

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Lab Order 2007963

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/20/2020

CLIENT: Talon Artesia Client Sample ID: S-3 A 2'

 Project:
 Cotton Draw Unit 89
 Collection Date: 7/16/2020 1:00:00 PM

 Lab ID:
 2007963-015
 Matrix: SOIL
 Received Date: 7/18/2020 11:05:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 88
 60
 mg/Kg
 20
 7/19/2020 8:46:24 PM
 53811

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

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 Quanitative 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2007963** 

20-Jul-20

Client: Talon Artesia

**Project:** Cotton Draw Unit 89

Sample ID: MB-53808 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 53808 RunNo: 70454

Prep Date: 7/19/2020 Analysis Date: 7/19/2020 SeqNo: 2449910 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-53808 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 53808 RunNo: 70454

Prep Date: 7/19/2020 Analysis Date: 7/19/2020 SeqNo: 2449911 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-53811 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 53811 RunNo: 70458

Prep Date: 7/19/2020 Analysis Date: 7/19/2020 SeqNo: 2450132 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-53811 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 53811 RunNo: 70458

Prep Date: 7/19/2020 Analysis Date: 7/19/2020 SeqNo: 2450133 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.7 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 Quanitative 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

Page 16 of 16



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

## Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: Talon Artesia Work Order Number: 2007963 RcptNo: 1 Received By: Leah Baca 7/18/2020 11:05:00 AM Completed By: Leah Baca 7/18/2020 12:06:39 PM 7/18/20 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Client Log In 3. Was an attempt made to cool the samples? Yes 🗸 No NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No L Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No No Sufficient sample volume for indicated test(s)? Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No No V 8. Was preservative added to bottles? NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA V No Yes Yes 10. Were any sample containers received broken? No V # of preserved bottles checked Yes 🗸 11. Does paperwork match bottle labels? No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: \$7/18/20 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 5.0 Good

Page 1 of 1

2

5.2

Good

ENVIRONMENTAL  SIS LABORATORY  environmental.com  Albuquerque, NM 87109  Fax 505-345-4107  alysis Request	(Present/Absent) (Present/Absent)	76797	Page 81 of 98
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals S260 (VOA) S270 (Semi-VOA)	H	contracted data will be clearly notated
4901 Ha	3TEX / MTBE / TMB's (8021) PH:8015D(GRO / DRO / MRO)	narks:	DILL AITE
1-day en Same Rush 28P-3198 a Unit #89	Six (b) No Six Six V Six Six V Six Six V S		Court Date Time  7/15/20 105  poratories. This serves as notice of th
Turn-Around Time:  Standard Project Name:  Coffen Braw Project #:	Rebecca Pons Sampler: Brandon Sinc On Ice: A Yes # of Coolers: (2) \$ Cooler Temp(including cF): \$ Type and # Type		Received by: Via: 0
Chain-of-Custody Record  Talon LPE  Ig Address: 408 W Texas Ave.  e#: 575-746-8768	☐ Level 4 (Full Validation) ☐ Az Compliance ☐ Other ☐ Matrix Sample Name	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time: Relinquished by: Received by: Via: 0 Court C Date Time Pill directly 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Chain-of-Co	email or Fax#:  QA/QC Package:  Standard  Accreditation:  NELAC  EDD (Type)	12:05 12:05 12:05 12:05 12:10 12:13 12:35 12:35 12:35 12:35 12:35 12:36 12:37	7 17 10 1900 (

n-of-Custon LPE	Turn-Around Time:  4-day Sume Dail  Project Name:  2 RP-4186  Cotton Draw Unit #89  Project #:	ANALYSIS LABORATORY AND STORY OF TORY
Phone #: 575-746-8768	700794.241.01	Analysis Request
QA/QC Package:	Project Manager:	So <sub>4</sub> SO <sub>4</sub> (Jues
☐ Standard ☐ Level 4 (Full Validation)	Rebecco Pons	SIW
npliance	ander Sinc	1 DR(8) 1 (1.1) 8270 8270
ype)	Wof Coolers: (2) Wo □ No □ Wo	3,898 3,698 3,000 3,000 1,600 1,000
	Cooler Temp(including cr): 50 + 500 - 500	eticio ethod N 831 Meta r, No r, No
Date Time Matrix Sample Name	Container Preservative HEAL No.	7TEX / 7801 Pe. 801 Pe
7-16-2012:50 Sqil 5-1 A 2'	1,46	8 8 8 8 8
12:54 5-2 4 2		
1 13:00   5-3 4 2	30-	
Date: Time: Belinarijehod by:		
0501 0	7/17/20 1050	Bill directly to Devon Energy
8	Kecelyed by: Via: O'GWN Date Time	age 82 1 30 1 6 d
If necessary, samples submitted to Hall Environmental may be subco	contracted to other accredited laboratories. This serves as notice of this	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.



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

August 12, 2020

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Devon Cotton Draw 89 CDU89 OrderNo.: 2008120

#### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/5/2020 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,

Andy Freeman

Laboratory Manager

Andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 0'-1'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 12:51:00 PM

 Lab ID:
 2008120-001
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1500	60	mg/Kg	20	8/7/2020 4:36:02 PM	54256
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	45	9.8	mg/Kg	1	8/7/2020 6:08:28 PM	54200
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/7/2020 6:08:28 PM	54200
Surr: DNOP	110	30.4-154	%Rec	1	8/7/2020 6:08:28 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/6/2020 3:31:26 PM	54195
Surr: BFB	100	75.3-105	%Rec	1	8/6/2020 3:31:26 PM	54195
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/6/2020 3:31:26 PM	54195
Toluene	ND	0.050	mg/Kg	1	8/6/2020 3:31:26 PM	54195
Ethylbenzene	ND	0.050	mg/Kg	1	8/6/2020 3:31:26 PM	54195
Xylenes, Total	ND	0.099	mg/Kg	1	8/6/2020 3:31:26 PM	54195
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/6/2020 3:31:26 PM	54195

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

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 Quanitative 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

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Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 2'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 12:53:00 PM

 Lab ID:
 2008120-002
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	72	60	mg/Kg	20	8/7/2020 4:48:24 PM	54256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/6/2020 5:48:54 PM	54200
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/6/2020 5:48:54 PM	54200
Surr: DNOP	88.9	30.4-154	%Rec	1	8/6/2020 5:48:54 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2020 4:42:18 PM	54195
Surr: BFB	104	75.3-105	%Rec	1	8/6/2020 4:42:18 PM	54195
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/6/2020 4:42:18 PM	54195
Toluene	ND	0.049	mg/Kg	1	8/6/2020 4:42:18 PM	54195
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2020 4:42:18 PM	54195
Xylenes, Total	ND	0.097	mg/Kg	1	8/6/2020 4:42:18 PM	54195
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	8/6/2020 4:42:18 PM	54195

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

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 Quanitative Limit

- 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

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Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 3'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 12:56:00 PM

 Lab ID:
 2008120-003
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	76	60	mg/Kg	20	8/7/2020 5:00:44 PM	54256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/6/2020 5:59:04 PM	54200
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/6/2020 5:59:04 PM	54200
Surr: DNOP	87.1	30.4-154	%Rec	1	8/6/2020 5:59:04 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/6/2020 7:03:39 PM	54195
Surr: BFB	98.4	75.3-105	%Rec	1	8/6/2020 7:03:39 PM	54195
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	8/6/2020 7:03:39 PM	54195
Toluene	ND	0.047	mg/Kg	1	8/6/2020 7:03:39 PM	54195
Ethylbenzene	ND	0.047	mg/Kg	1	8/6/2020 7:03:39 PM	54195
Xylenes, Total	ND	0.094	mg/Kg	1	8/6/2020 7:03:39 PM	54195
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/6/2020 7:03:39 PM	54195

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

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 Quanitative 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

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Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 4'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 1:06:00 PM

 Lab ID:
 2008120-004
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	1300	60	mg/Kg	20	8/7/2020 5:13:04 PM	54256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/6/2020 6:09:17 PM	54200
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 6:09:17 PM	54200
Surr: DNOP	97.6	30.4-154	%Rec	1	8/6/2020 6:09:17 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/6/2020 7:27:12 PM	54195
Surr: BFB	98.8	75.3-105	%Rec	1	8/6/2020 7:27:12 PM	54195
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	8/6/2020 7:27:12 PM	54195
Toluene	ND	0.046	mg/Kg	1	8/6/2020 7:27:12 PM	54195
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2020 7:27:12 PM	54195
Xylenes, Total	ND	0.093	mg/Kg	1	8/6/2020 7:27:12 PM	54195
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/6/2020 7:27:12 PM	54195

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

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 Quanitative Limit

- 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

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Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 6'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 1:09:00 PM

 Lab ID:
 2008120-005
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	690	60	mg/Kg	20	8/7/2020 5:25:25 PM	54256
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/6/2020 6:19:16 PM	54200
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/6/2020 6:19:16 PM	54200
Surr: DNOP	101	30.4-154	%Rec	1	8/6/2020 6:19:16 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/6/2020 7:50:40 PM	54195
Surr: BFB	99.6	75.3-105	%Rec	1	8/6/2020 7:50:40 PM	54195
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	8/6/2020 7:50:40 PM	54195
Toluene	ND	0.046	mg/Kg	1	8/6/2020 7:50:40 PM	54195
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2020 7:50:40 PM	54195
Xylenes, Total	ND	0.092	mg/Kg	1	8/6/2020 7:50:40 PM	54195
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/6/2020 7:50:40 PM	54195

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

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 Quanitative 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

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Client Sample ID: B-1 8'

**Collection Date:** 8/3/2020 1:08:00 PM

Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

**Project:** Devon Cotton Draw 89 CDU89

**Lab ID:** 2008120-006 **Matrix:** SOIL **Received Date:** 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	210	60	mg/Kg	20	8/8/2020 1:09:37 PM	54277
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/6/2020 6:29:22 PM	54200
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 6:29:22 PM	54200
Surr: DNOP	97.4	30.4-154	%Rec	1	8/6/2020 6:29:22 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2020 8:14:13 PM	54195
Surr: BFB	98.8	75.3-105	%Rec	1	8/6/2020 8:14:13 PM	54195
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/6/2020 8:14:13 PM	54195
Toluene	ND	0.049	mg/Kg	1	8/6/2020 8:14:13 PM	54195
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2020 8:14:13 PM	54195
Xylenes, Total	ND	0.098	mg/Kg	1	8/6/2020 8:14:13 PM	54195
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	8/6/2020 8:14:13 PM	54195

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

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 Quanitative 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

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Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 10'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 1:10:00 PM

 Lab ID:
 2008120-007
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	96	60	mg/Kg	20	8/8/2020 1:46:38 PM	54277
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/6/2020 6:39:26 PM	54200
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/6/2020 6:39:26 PM	54200
Surr: DNOP	98.1	30.4-154	%Rec	1	8/6/2020 6:39:26 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2020 8:37:41 PM	54195
Surr: BFB	100	75.3-105	%Rec	1	8/6/2020 8:37:41 PM	54195
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/6/2020 8:37:41 PM	54195
Toluene	ND	0.049	mg/Kg	1	8/6/2020 8:37:41 PM	54195
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2020 8:37:41 PM	54195
Xylenes, Total	ND	0.098	mg/Kg	1	8/6/2020 8:37:41 PM	54195
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	8/6/2020 8:37:41 PM	54195

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

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 Quanitative Limit

- 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

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Date Reported: 8/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG-1 0'-1'

 Project:
 Devon Cotton Draw 89 CDU89
 Collection Date: 8/3/2020 2:37:00 PM

 Lab ID:
 2008120-008
 Matrix: SOIL
 Received Date: 8/5/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/8/2020 1:58:58 PM	54277
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	17	9.8	mg/Kg	1	8/6/2020 6:49:26 PM	54200
Motor Oil Range Organics (MRO)	85	49	mg/Kg	1	8/6/2020 6:49:26 PM	54200
Surr: DNOP	101	30.4-154	%Rec	1	8/6/2020 6:49:26 PM	54200
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/6/2020 9:01:07 PM	54195
Surr: BFB	99.4	75.3-105	%Rec	1	8/6/2020 9:01:07 PM	54195
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/6/2020 9:01:07 PM	54195
Toluene	ND	0.047	mg/Kg	1	8/6/2020 9:01:07 PM	54195
Ethylbenzene	ND	0.047	mg/Kg	1	8/6/2020 9:01:07 PM	54195
Xylenes, Total	ND	0.095	mg/Kg	1	8/6/2020 9:01:07 PM	54195
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	8/6/2020 9:01:07 PM	54195

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

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 Quanitative Limit

- 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2008120** 

12-Aug-20

Client: Talon Artesia

**Project:** Devon Cotton Draw 89 CDU89

Sample ID: MB-54256 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **54256** RunNo: **70901** 

Prep Date: 8/7/2020 Analysis Date: 8/7/2020 SeqNo: 2470133 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54256 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54256 RunNo: 70901

Prep Date: 8/7/2020 Analysis Date: 8/7/2020 SeqNo: 2470135 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.9 90 110

Sample ID: MB-54277 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54277 RunNo: 70937

Prep Date: 8/8/2020 Analysis Date: 8/8/2020 SeqNo: 2470842 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54277 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54277 RunNo: 70937

Prep Date: 8/8/2020 Analysis Date: 8/8/2020 SeqNo: 2470843 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 90.4 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 Quanitative 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

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### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2008120 12-Aug-20** 

Client: Talon Artesia

Sample ID: MB-54200

**Project:** Devon Cotton Draw 89 CDU89

Sample ID: LCS-54200 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 54200 RunNo: 70894 Units: mg/Kg Prep Date: 8/5/2020 Analysis Date: 8/6/2020 SeqNo: 2469095 Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 10 50.00 n 99.4 70 130 Surr: DNOP 4.5 5.000 90.4 30.4 154

TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 54200 Client ID: PBS RunNo: 70894 Prep Date: 8/5/2020 Analysis Date: 8/6/2020 SeqNo: 2469098 Units: mg/Kg HighLimit Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.6 10.00 86.5 30.4 154

Sample ID: 2008120-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: B-1 0'-1' Batch ID: 54200 RunNo: 70908 Prep Date: 8/5/2020 Analysis Date: 8/7/2020 SeqNo: 2472511 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 130 9.8 49.02 45.12 164 47.4 S 136 Surr: DNOP 5.0 4.902 103 30.4 154

Sample ID: 2008120-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: B-1 0'-1' Batch ID: 54200 RunNo: 70908 Prep Date: 8/5/2020 Analysis Date: 8/7/2020 SeqNo: 2472512 Units: mg/Kg Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte **PQL** Diesel Range Organics (DRO) 110 9.5 47.71 45.12 139 47.4 136 11.8 43.4 S Surr: DNOP 5.9 4.771 124 30.4 154 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 Quanitative 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2008120 12-Aug-20** 

Client: Talon Artesia

**Project:** Devon Cotton Draw 89 CDU89

Sample ID: 2008120-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: B-1 0'-1' Batch ID: 54195 RunNo: 70872 Units: mg/Kg Prep Date: 8/5/2020 Analysis Date: 8/6/2020 SeqNo: 2469358 Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.9 24.56 n 61.3 25 102 114 S Surr: BFB 1100 982.3 111 75.3 105

Sample ID: 2008120-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: B-1 0'-1' Batch ID: 54195 RunNo: 70872 Prep Date: 8/5/2020 Analysis Date: 8/6/2020 SeqNo: 2469359 Units: mg/Kg HighLimit Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.8 24.02 n 108 61.3 114 3.20 20 S Surr: BFB 1100 960.6 113 75.3 105 0

Sample ID: LCS-54195 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 54195 RunNo: 70872 Prep Date: 8/5/2020 Analysis Date: 8/6/2020 SeqNo: 2469384 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 95.0 72.5 106 Surr: BFB 1100 1000 114 75.3 105 S

Sample ID: mb-54195 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 54195 RunNo: 70872 Prep Date: 8/5/2020 Analysis Date: 8/6/2020 SeqNo: 2469386 Units: mg/Kg SPK value SPK Ref Val %REC %RPD Analyte Result **PQL** LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 990 1000 98.8 75.3 105

#### 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 Quanitative 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2008120** 

12-Aug-20

Client: Talon Artesia

**Project:** Devon Cotton Draw 89 CDU89

Sample ID: 2008120-002ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: B-1 2'	Batch	n ID: <b>54</b> ′	195	F	RunNo: <b>7</b> 0	0872					
Prep Date: 8/5/2020	Analysis D	ate: 8/	6/2020	S	SeqNo: 2	469479	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.98	0.025	0.9804	0	100	76.3	120				
Toluene	1.0	0.049	0.9804	0	103	78.5	120				
Ethylbenzene	1.0	0.049	0.9804	0	106	78.1	124				
Xylenes, Total	3.1	0.098	2.941	0	106	79.3	125				
Surr: 4-Bromofluorobenzene	1.1		0.9804		107	80	120				

Sample ID: 2008120-002amsd	SampType: MSD TestCode: EPA Method 80						8021B: Volat	iles		
Client ID: B-1 2'	Batch	ID: <b>54</b> 1	195	R	RunNo: <b>7</b> 0					
Prep Date: 8/5/2020	Analysis D	ate: 8/0	6/2020	S	469480	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9506	0	95.6	76.3	120	7.72	20	
Toluene	0.95	0.048	0.9506	0	99.8	78.5	120	5.76	20	
Ethylbenzene	0.98	0.048	0.9506	0	103	78.1	124	5.44	20	
Xylenes, Total	3.0	0.095	2.852	0	104	79.3	125	5.39	20	
Surr: 4-Bromofluorobenzene	1.0		0.9506		106	80	120	0	0	

Sample ID: LCS-54195	SampT	ype: LC	S	Tes	tCode: <b>El</b>	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: <b>54</b> 1	195	F	RunNo: 7	0872				
Prep Date: 8/5/2020	Analysis D	ate: 8/0	6/2020	S	SeqNo: 2469503 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: mb-54195	SampT	уре: <b>МЕ</b>	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	ID: <b>54</b>	195	F									
Prep Date: 8/5/2020	Analysis D	ate: 8/	6/2020	S	SeqNo: 2	469505	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		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 Quanitative 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

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

## Sample Log-In Check List

Client Name:	Talon Artesia	Work C	order Number: 200	8120	······································	RcptN	o: 1
Received By:	Juan Rojas	8/5/2020	8:00:00 AM		Hansay		
Completed By:	Juan Rojas	8/5/2020	8:20:19 AM		Hansay		
Reviewed By:	40	8/5/20			, 2		
Chain of Cus	stody						
1. Is Chain of C	Custody complete?		Yes	<b>V</b>	No 🗌	Not Present	
2. How was the	sample delivered?		Cou	<u>ırier</u>			
Log In 3. Was an atten	npt made to cool the s	samples?	Yes	<b>V</b>	No 🗆	na 🗆	
4. Were all sam	ples received at a ten	nperature of >0° C to	6.0°C Yes	<b>Y</b>	No 🗆	na 🗆	
5. Sample(s) in	proper container(s)?		Yes	<b>~</b>	No 🗌		
6. Sufficient san	nple volume for indica	ted test(s)?	Yes	<b>V</b>	No 🗌		
7. Are samples (	except VOA and ON	3) properly preserved	? Yes	<b>V</b>	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗹	NA 🗀	
9. Received at le	east 1 vial with headsp	pace <1/4" for AQ VO	A? Yes		No 🗆	NA 🗹	
10. Were any sar	mple containers receiv	ved broken?	Yes		No 🗸	# of preserved	
	ork match bottle labels ancies on chain of cus		Yes	<b>V</b>	No 🗔	bottles checked for pH:	or >12 unless noted)
12. Are matrices	correctly identified on	Chain of Custody?	Yes	<b>V</b>	No 🗌	Adjusted?	
13. Is it clear wha	t analyses were reque	ested?	Yes	<b>V</b>	No 🗔		-iO. O
	ng times able to be m ustomer for authorizat		Yes	<b>V</b>	No 🗌	Checked by:	SPA 8,5, 20
Special Handl	ing (if applicable	<u>e)</u>					
15. Was client no	otified of all discrepand	cies with this order?	Yes		No 🗆	NA <b>☑</b>	_
Person	Notified:	AND AND THE PROPERTY OF THE PR	Date		* * 3-A ALMANAAMANA SAMA AMAY 94-7		
By Who	om;	***************************************	Via: ☐ eM	ail	Phone Fax	☐ In Person	
Regardi	ing:	A CAMPANIAN AND A CAMPANIAN AN					
Client Ir	nstructions:				***************************************		
16. Additional rea	marks:						
17. Cooler Infor					#		
Cooler No	*** **********************************	tion   Seal Intact   S	Seal No Seal D	ate	Signed By		
2	0 Good 0.1 Good						
	G000						

		www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	. 505-345-3975 Fax 505-345-4107	Anal	<sup>b</sup> O§	SINI	S0,	4.1) 7.58 } NO <sub>2</sub>	02   10 (   2    10 (	bor 310 NO (/	lett β M 3r,	148 b (N) 86 (N) 86 (N) 98 (N) 48 b (V) 90 (인	AA DA DA \$20											Please cc the following via email:	Kpons@talonipe.com Bsinclair@talonipe.com	OVING. 13170 0.001.
			490	Ţe.									08:H				\	1	1	1	/				Remarks: Dadk	Rpo Bsin	ssibility. A
Turn-Around Time: $\mathcal{U}$ - $\mathcal{D}$ a $\gamma$	□ Rush	(cDusy)	Cotton Uraw 01	Project #:	700 794, 241,01		Rebecca Pons		: Roy/Sell	se se		(SE) (O. V.)	Container   Preservative   $C \cdot S = C \cdot H \cdot C \cdot C \cdot H \cdot C \cdot C \cdot C \cdot C \cdot C \cdot$	# Type   つれいおいん		<b>\</b>	500-	/ hou-   (   (	/ \ 500- \ . / \ . /	7 700-	/ 600-	/ X00   )   · ]	- 1		Refleyed by: Via: ALAU IIIIE Re	Received by: Ord: Date Time	ental may be subcontracted tocky accredited laboratories. This serves as notice of this pos
Chain-of-Custody Record	Client Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #: 575-441-0980	email or Fax#: (575) 746-8905	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	:ແດ	□ NELAC □ Other	□ EDD (Type)			Date Time Matrix Sample Name	8-3-2012:51 8-10-1"					]	A-1	7			Date: Time: Relinquished by: My BACH	Date: Time: Relinquished by:	, samples submitted to Hall Erivironin

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

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 183769

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	183769
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

-	Condition	Condition
Ву		Date
bhall	Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	3/27/2023