Page 6

Oil Conservation Division

Incident ID	nAB1711551324
District RP	
Facility ID	30-015-24827
Application ID	

Page 1 of 98

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.

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Dale Woodall

Signature: Dale Woodall

Email: Dale.Woodall@dvn.com

Title: Environmental Professional

Date: February 7, 2023

Telephone: 575.748.1838

OCD Only

Received by:

Date: _____

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

Closure Approved by: Hall	Date: <u>2/8/2023</u>
Printed Name: Brittany Hall	Title: Environmental Specialist



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

www.talonlpe.com

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.

Approximate Depth to	o Groundwater	> 55 feet/bgs
□Yes ⊠No	Within 300 feet of any continuously flowing wat any other significant watercourse	tercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or a p	laya lake
□Yes ⊠No	Within 300 feet from an occupied permanent re school, hospital, institution or church	esidence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domest well used by less than five households for dom watering purposes	
□Yes ⊠No	Within 1000 feet of any freshwater well or sprin	ıg
∐Yes ⊠No	Within incorporated municipal boundaries or wi municipal freshwater well field covered under a ordinance adopted pursuant to Section 3-2703	a 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.

	Tab Closure Criteria for Soils	ble I 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 (GRO+DRO+MRO)	EPA 300.0 or SM4500 CI B EPA SW-846 Method 8015M	10,000 mg/kg 2,500 mg/kg
	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).

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO DRO mg/kg 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
	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
				2011 Fi ND = Analy	re Incide te not det				

Table 1aSite Assessment Analytical DataIncident #s nMLB1128636288

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 (SM4500CI-B). The summary of the results are presented in the following Table 1b.

Contract	Commite	Dentil		ent # nAl			1400	Total	Classiala
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	mg/kg mg/kg		mg/kg	TPH mg/kg	Clorides mg/kg
	CD Table 1 Clo ia 19.15.29 N		50 mg/kg	10 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
5-1	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
6.2	1/11/2016	2'	NT	NT	NT	NT	NT	-	1,880
S-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
6.2	1/11/2016	2'	NT	EX Benzene mg/kg GRO mg/kg DRO mg/kg MRO mg/kg TPH mg/kg 0 10 DRO + GRO = 1,000 mg/kg 2,500 mg/kg T NT NT NT T NT NT NT - T NT NT NT -	2,080				
S-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
6.4	1/11/2016	2'	NT	NT	NT	NT	NT	-	288
S-4	1/11/2016	3'	NT	NT	NT	NT	NT	-	176
	1/11/2016	4'	NT	NT	NT	NT	NT	-	624
	<u> </u>							<u>.</u>	
	ND = Ar	alyte No	t Detecte	d NT = No	t Tested	R = Refu	sal with Hand A	uger	

 Table 1b

 Site Assessment Analytical Data

 Incident # nAB1522442205

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 (SM4500CI-B), and the data is summarized in the following Table 1c.

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
	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 P	roduced	Water Rele	ase Outsid	e of Contai	nment		

 Table 1c

 Site Assessment Analytical Data

 Incident # nAB1711551324

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.

				e Analytica								
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			
	ole 1 Closure C L5.29 NMAC	riteria	50 mg/kg	10 mg/kg	DRO + GR mg/			2,500 mg/kg	10,000 mg/kg			
Incident # nAB	ncident # 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 Produ	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 T		SW = North Sic SW = West Sic		N = East Sig	de Wall	SSW = South	Side Wall			

Table 2Site Closure Analytical Data

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 Taylor Taylor

David J	Digitally signed by David J Adkins DN: cn=David J Adkins, o=TalonLPE, ou=Regional
Adkins	Manager, email=dadkins@talonlpe.com, c=US Date: 2023.02.06 14:57:06 -07'00'

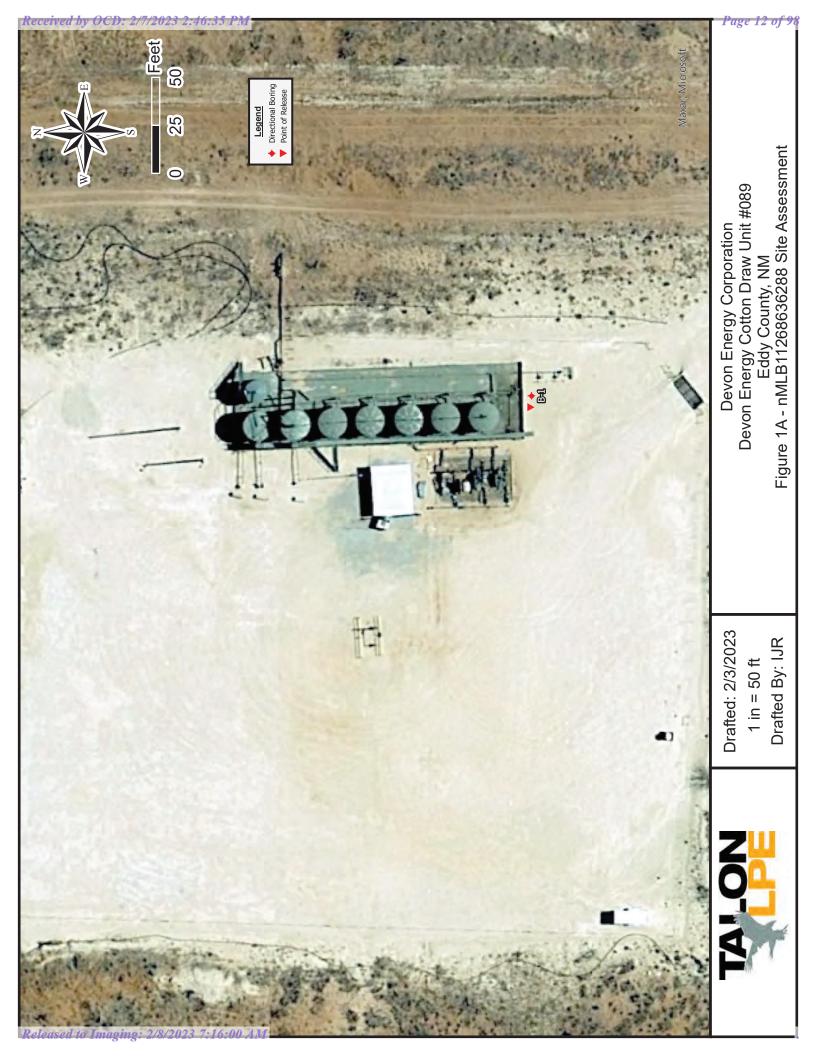
David J. Adkins Regional Manager

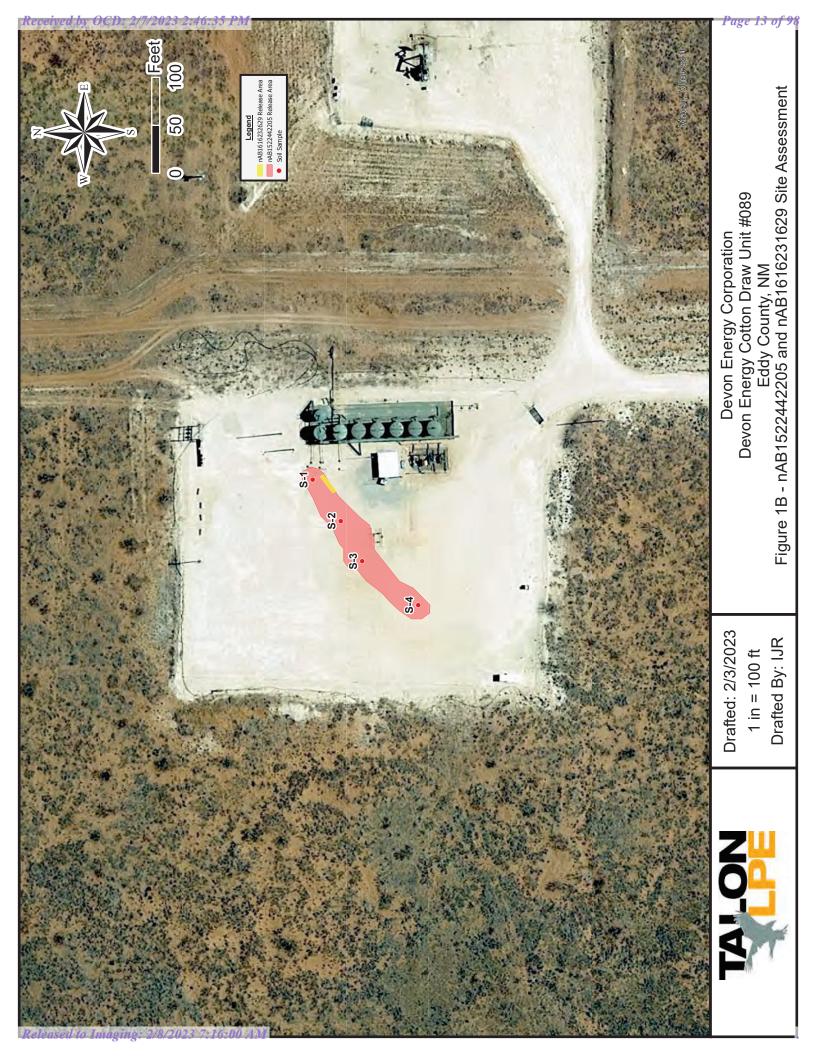
Attachments:	
Appendix I	Site Maps
Appendix II	Groundwater Data, Soil Data, FEMA Flood Map
Appendix III	C-141 Forms, NMOCD Correspondence, Approved Work Plan for
	Incident Number nAB1711551324
Appendix IV	Photographic Documentation
Appendix V	Laboratory Analytical Data



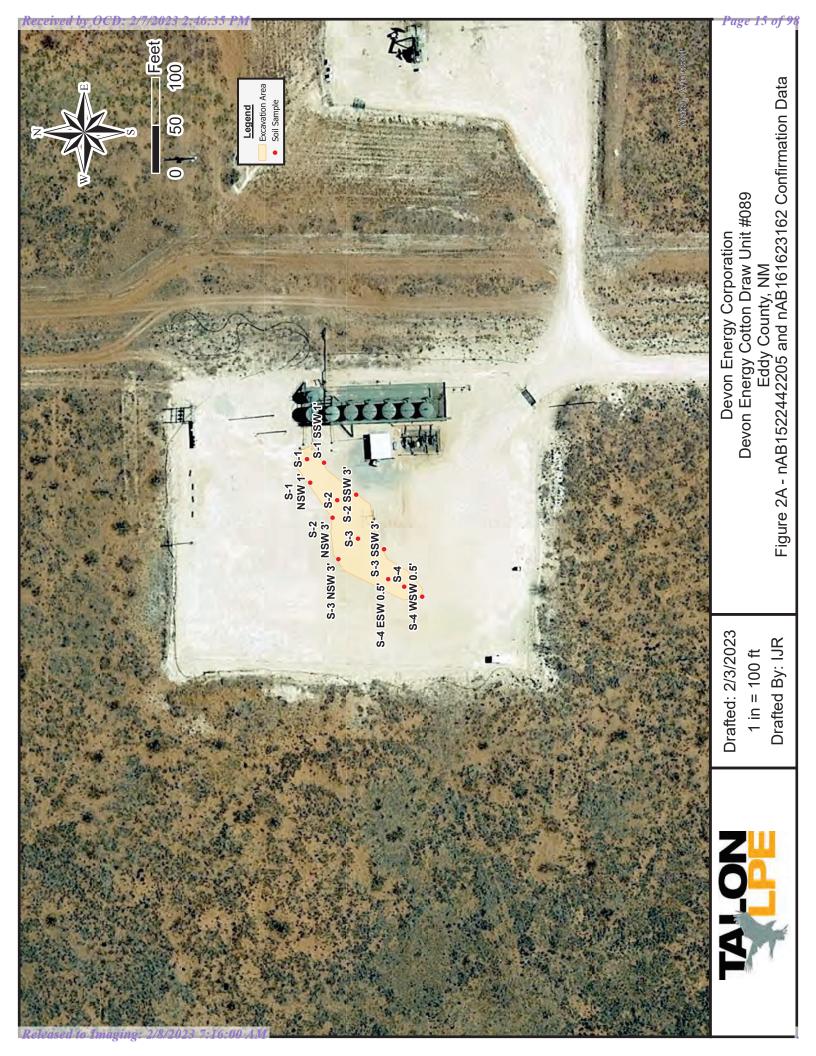
APPENDIX I

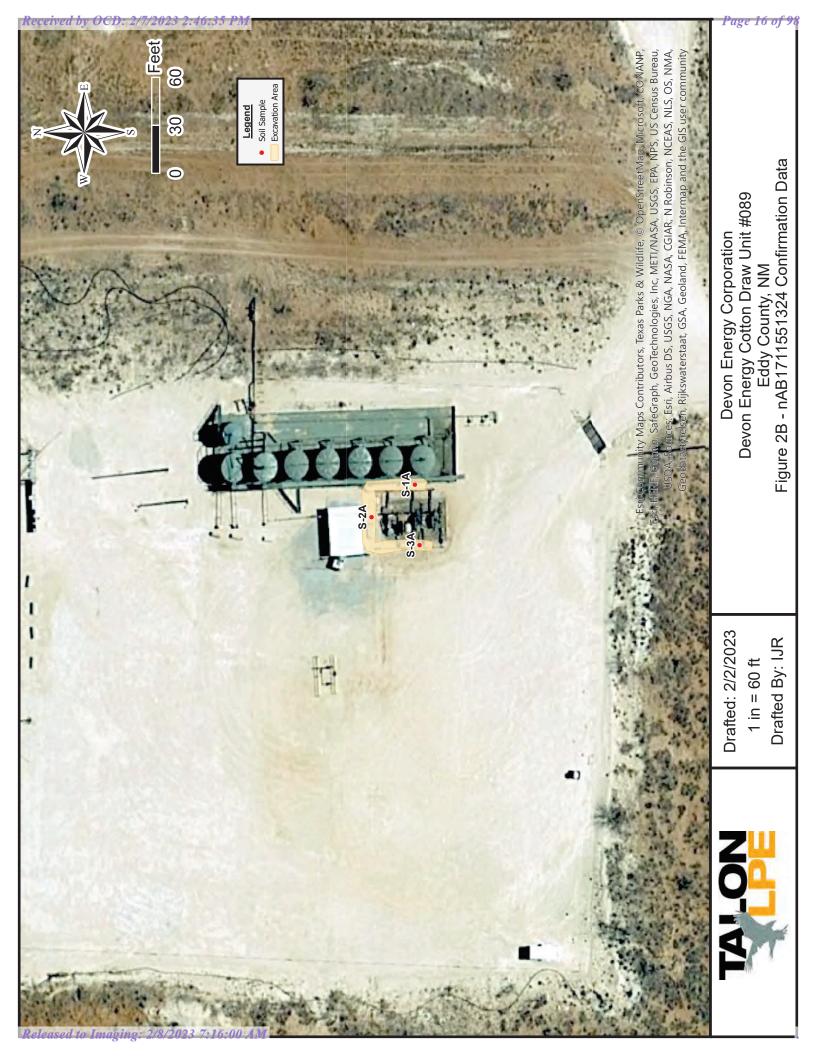
Site Maps

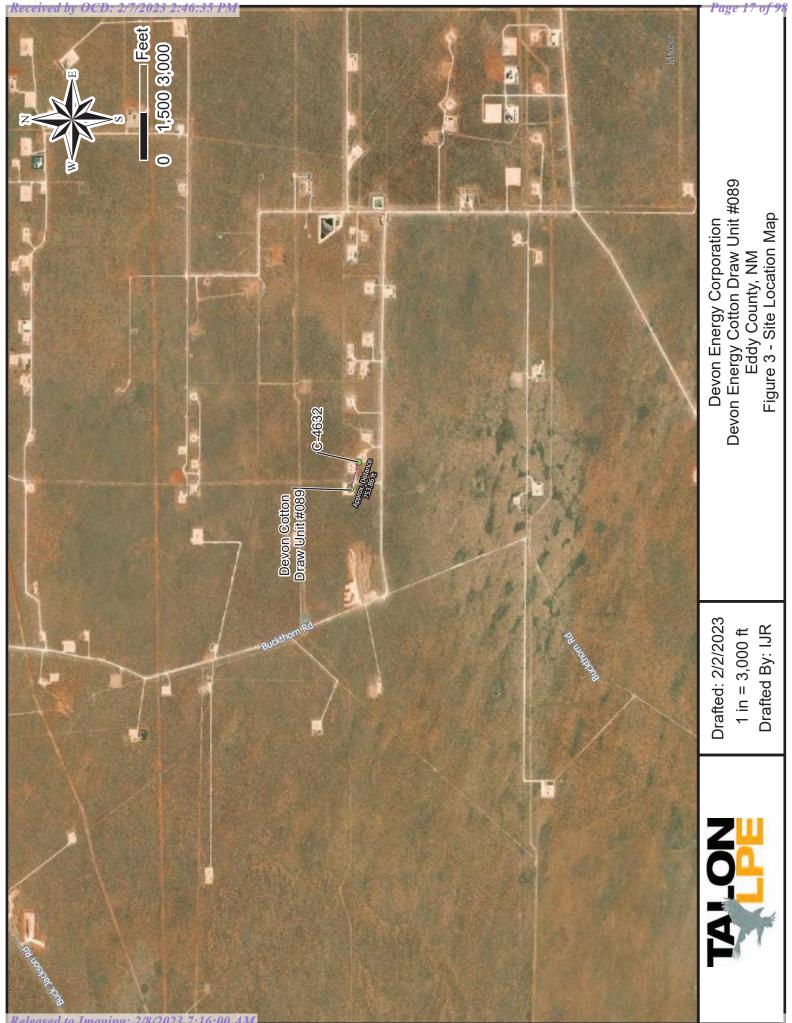




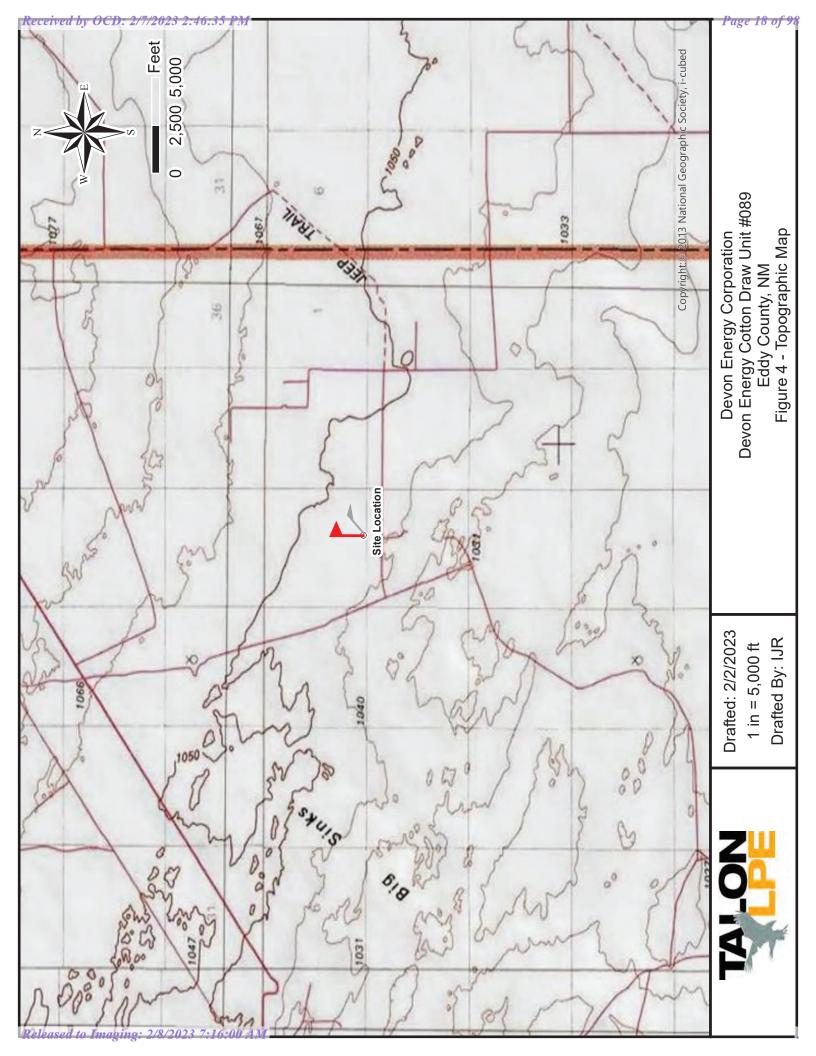


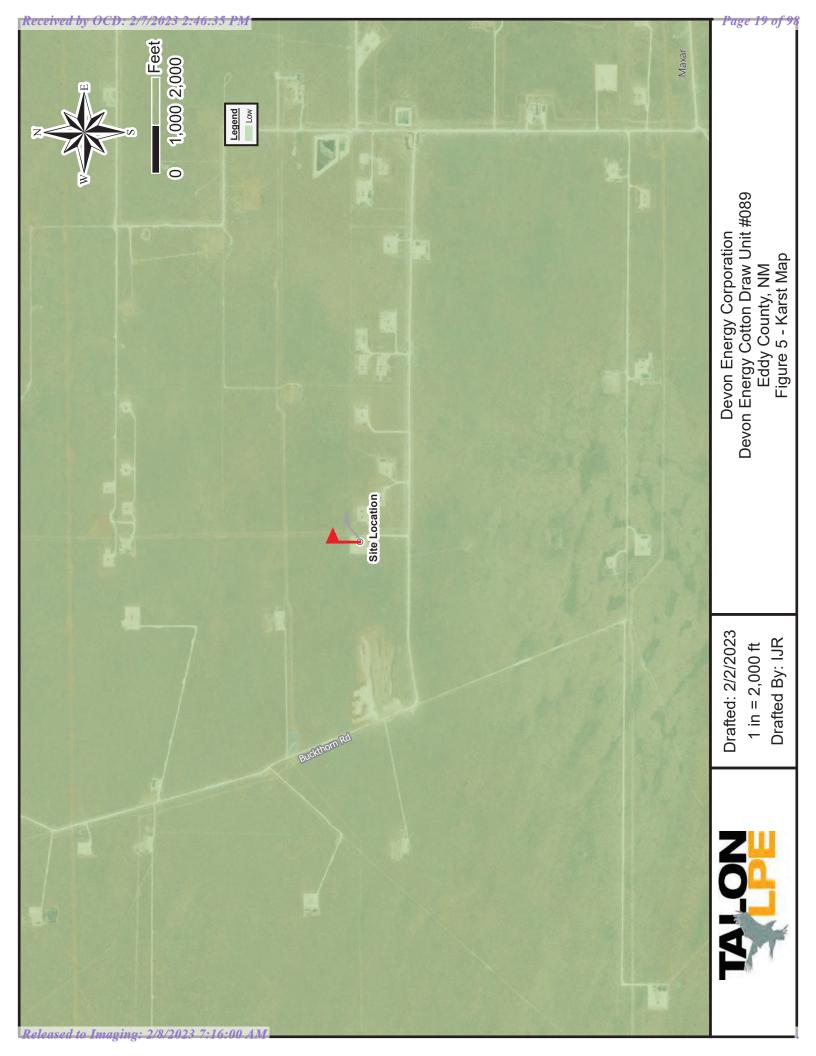






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APPENDIX II

Groundwater and Soil Data FEMA Flood Map



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

7	OSE POD NO POD 1 (TV		0.)		WELL TAG ID NO).		OSE FILE NO(C-4632	S).			
VIIO	WELL OWN		5)					PHONE (OPTI	ONAL)			
OC	Devon Ene	rgy						575-748-18	38			
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TING		-								-		-
DRIL												
2.1						-						
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ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE	S-RANGE	BY INTE	RVAL	(cubic feet)		PLACEN	MENI
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LOC	ATION	25	5.31E.10) 19	12			WELL TAG I	DNO.		PAGE	1 OF 2



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

POD suffix indicates the POD has been replaced & no longer serves a water right file.)	replaced, O=orpha C=the fil closed)	ned,	· •	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)											
	,	POD Sub-		_	Q	-				` 		, 		Vater	
POD Number C 02250	Code	basin CUB	County ED				Sec 21		Rng 31E	X 614912	Y 3553620*	DepthWellDep 400	thWater Co 390	olumr 1	
C 02568		CUB	ED	4			01	255	31E	619103	3558892*	1025	590	1	
C 02569		CUB	ED				02	258	31E	618699	3558891*	1016			
C 02570		CUB	ED		2			258	31E	618704	3558489*	895			
C 02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	860			
<u>C 02572</u>		CUB	ED	4	2	2	02	258	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	258	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	258	31E	614182	3559400 🌍	0	0		
C 04500 POD1		CUB	ED	4	4	1	28	25S	31E	614620	3552380 🌍				
<u>C 04619 POD1</u>		CUB	ED	2	1	2	27	25S	31E	616750	3552958 🌍	55			
<u>C 04624 POD1</u>		CUB	ED	4	4	1	30	258	31E	611501	3552305	120	0	12	
C 04632 POD1		CUB	ED	1	2	2	10	258	31E	616802	3557964 🌍	55			
C 04635 POD1		CUB	ED	4	3	4	01	25S	31E	619958	3558078 🌍	55			
											Average Depth to	Water:	130 fee	et	
										Minimum Depth:			0 fee	et	
											Maximur	n Depth:	390 fee	et	

*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

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

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

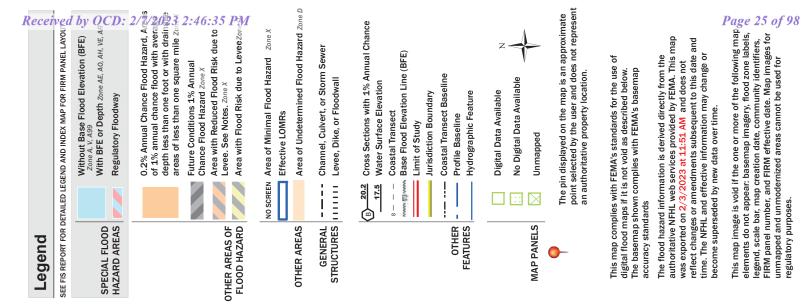
Wink

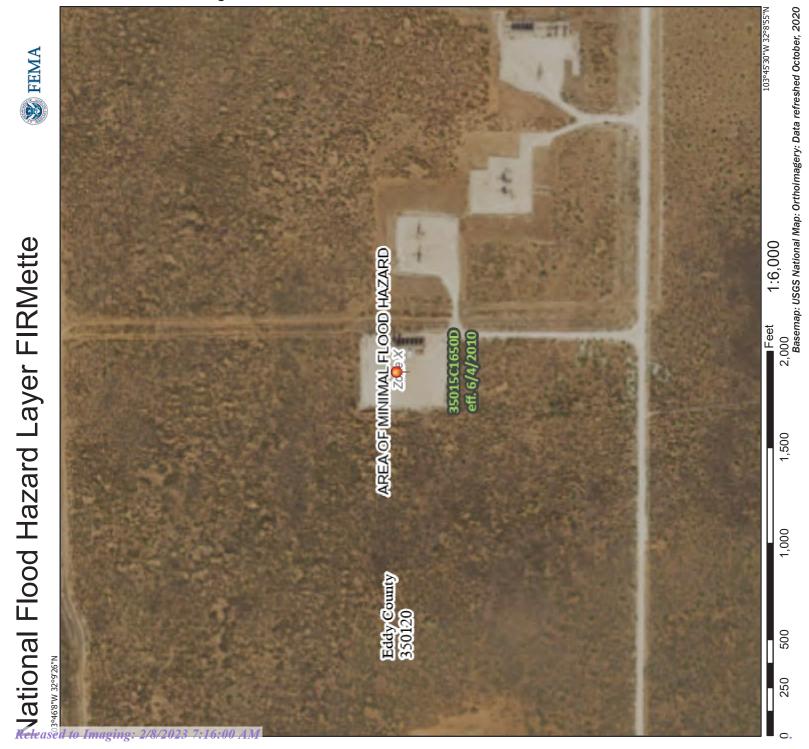
Percent of map unit: 4 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Kermit

Percent of map unit: 3 percent Ecological site: R042XC005NM - Deep Sand Hydric soil rating: No









APPENDIX III

C-141 Forms

NMOCD Correspondence

Approved Work Plan for Incident Number nAB1711551324

Received by OCD: 2/7/2023 2:46:35 PM							Page 27 of 98
District I 1625 N. French Dr., Hobbs, NM 88240	State of 2	New Mexico					Form C-141
District II Energy	Minerals a	and Natura	l Resources			Re	vised March 17, 1999
1301 W. Grand Avenue, Artesia, NM 88210 District III	il Conser	vation Div	vision				pies to appropriate
1000 Rio Brazos Road, Aztec, NM 8/410	1220 South St. Fran				÷.		ffice in accordance h Rule 116 on back
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505						side of form
30-0/5-3/38/ Release Not			· · · · · · · · · · · · · · · · · · ·	ction	1	and the second	·····
nMLB 1123636288	OPERA	TOR	1	🖂 Ir	nitial Re	port [Final Report
			Roger Herna	<u> </u>			
Address P. O. Box 250			e No. 575-7		38		
Artesia, NM 88211		1	I I I I I I I I I I I I I I I I I I I				
Facility Name Cotton Draw #89		Facility T	ype Gas W	ell			
Surface Owner Mine	eral Owne	r			Lease	No.	
		N OF REI			Leube		
Unit Letter Section Township Range Feet from t	=	South Line	Feet from the	East/V	Vest Line	County	
3 25S 31E 250	South		1980	East		Eddy Coun	ty
				L			
	ATURE	OF REL		c	Valuera	Recovered 6	DDLC
Type of Release Condensate Source of Release			Release 28 BBL				overy 9-20-11
Lightening Struck Produced Water Tank		9-20-11 1	1:30 PM		11:30 PM		
Was Immediate Notice Given?	ot Required	If YES, To Kent Casso	Whom? Mike Bi	ratcher (OCD)		
By Whom? Merle Lewis			lour 9-21-11 11	·47 AM			
Was a Watercourse Reached?	· ·		olume Impacting				
Yes No							VED
If a Watercourse was Impacted, Describe Fully.*		1				RECE	
N/A						SEP 2	3 2011
					N	MOCD /	ARTESIA
Describe Cause of Problem and Remedial Action Taken.* Lightening struck the battery destroying the fiberglass produ	iced water ta	nk and assoc	iated piping. It re	esulted i	na release	of 28 bbls of	f condensate on
location. We were able to recover 6 bbls of condensate. The				Joundan	ir a Toroase	01 20 0013 0	condensate on
Describe Area Affected and Cleanup Action Taken.*							
The well was immediately shut in, the spill was contained in		20'x 40' the	area was stained	but noth	ing standir	ng. Will remo	ove burned
equipment and will now convert this location to a SWD well.		~					
I hereby certify that the information given above is true and c	omplete to th	ne best of my	knowledge and u	Inderstan	nd that purs	suant to NMC	OCD rules and
regulations all operators are required to report and/or file cert	ain release no	otifications a	nd perform correct	ctive act	ions for rel	eases which r	nay endanger
public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate a							
or the environment. In addition, NMOCD acceptance of a C-							
federal, state, or local laws and/or regulations.				GEDU		DUUGIO	
			<u>OIL CON</u>	<u>SERV</u>	ATION	DIVISIO	<u>N</u>
Signature: Adrienne Verkler				4 / I.	, ikaa		
			Dime Bur		E) RAM	Misr	
Printed Name: Adrienne Verkler			OCT 1 3 20	11			
Title: Field Tech II		Approval Dat	te:	1	Expiration	Date:	
Date: Sept. 26, 2011 Phone: (575) 748-0174		Conditions of	f Approval:			Attached	
* Attach Additional Sheets If Necessary	C	Pomediatio	n per OCD Rul	es &		- <u> </u>	PA DI-
	r Cuid	olines SLIF	MIT REMEDIA	ATION		21	EP-912
		POSAL NO	F LATER THAN	l:			,
	110	11/13/	2011				

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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 items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: DaleWoodall Title: Environmental Professional Signature: Dale Woodall Date: 2/7/2023 email: dale.woodall@dvn.com Telephone: 575-748-1838 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Title: Printed Name:

<u>District I</u> 625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 311 S. First St., Artesia, NM 88210	State o Energy Mineral	f New Mex s and Natura			Form C-14 Revised August 8, 2011		
District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 Sou	ervation Div th St. Franc Fe, NM 875	is Dr.	Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.			
Re	lease Notification	on and Co	orrective A	ction			
Name of Company Devon Energy Produ Address 6488 Seven Rivers Hwy Artesia Facility Name Cotton Draw Unit 89			arry Michael No. 575-513-48		al Report 🔲 Final Report		
Surface Owner Federal	Mineral Own		JESWD	ADIN	p. 30-015-31381		
Surface Owner Federal		Contraction of the		APIN	5, 50-013-51581		
Unit Letter Section Township Rang O 3 258 31E	e Feet from the Nor	DN OF RE th/South Line FSL	Feet from the 1980	East/West Line FEL	County Eddy		
La	titude: 32.1528893	Lor	gitude: -103.7	536414			
	NATUR	E OF REL	EASE				
Type of Release Spill		Volume of 35bbl	Release	Volume 25bbl	Recovered		
Source of Release 4" high pressure hose			Hour of Occurro 2015 5:04 PM		Hour of Discovery 5, 2015 5:04 PM		
Was Immediate Notice Given?	🗋 No 📋 Not Require	If YES, Te d Jim Amos,	d Jim Amos, BLM NM OIL CONSERVATION				
By Whom? Hubert Perry, Production Foreman		Date and Hour ARTESIA DISTRICT Jim Amos, August 6, 2015 7:35 PM AUG 11.2015 Mike Bratcher, August 6, 2015 7:37 PM AUG 11.2015					
Was a Watercourse Reached?	No No	If YES, Volume Impacting the Watercourse N/A RECEIVED					
If a Watercourse was Impacted, Describe I N/A	'ully.*						
Describe Cause of Problem and Remedial On August 6, 2015 5:04 at the Cotton Draw b pressure 4" hose blew apart releasing 35bbls started recovering the released produced wate	Jnit 89 Truck Driver for E onto location. The well v						
Describe Area Affected and Cleanup Action The affected area was approximately 80' x 12 And environmental company will be contacted	0' x 50' all contained on		bbls produced w	ater recovered. Th	e broken hose will be repaired.		
I hereby certify that the information given ab- regulations all operators are required to repor- public health or the environment. The accept should their operations have failed to adequat or the environment. In addition, NMOCD ac federal, state, or local faws and/or regulations	t and/or file certain release ance of a C-141 report by ely investigate and remed ceptance of a C-141 repor	e notifications a the NMOCD m iate contaminat	nd perform corre arked as "Final F on that pose a th	ctive actions for re- teport" does not re- real to ground wate	leases which may endanger lieve the operator of liability r. surface water, human health		
Signature: Sheila Fisher		OIL CON	SERVATION	DIVISION			
		Approved by	ipecialist:	26			
Printed Name: Sheila Fisher		a spine is a ny					
Printed Name: Sheila Fisher Title: Field Admin Support		Approval Da	Auli	5 Expiration	Date: NA		
NAL AND DUTY OF SHEETS		Approval Da Conditions o		Expiration Rules & Guidel	linevatached		

Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: ______ Dale Woodall ______ Title: _____ Environmental Professional Signature: Dale Woodall _____ Date: _____2/7/2023_____ email: dale.woodall@dvn.com Telephone: 575-748-1848 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Title: Printed Name:

Receiv	ed by	OCD:	2/7/2023	2:46:35	PM
N					

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

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

NM OIL CONSERVATION ARTESIA DISTRICT

JUN 09 2016

Form C-141

Page 31 of 98

Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action							
NAB1414231629	4137	OPERATOR	🛛 Initial Report 🔲 Final Repor				
Name of Company Devon Energy Produc	ction Company	Contact Jake Harrington,	Production Foreman				
Address 6488 Seven Rivers Hwy Artesia,	NM 88210	Telephone No. 432-214-51	75				
Facility Name Cotton Draw Unit #89		Facility Type Salt Water D	isposal				
Surface Owner Federal	Mineral Owne	er Federal	API No 30-015-31381				

LOCATION OF RELEASE

	Unit Letter O	Section 3	Township 25S	Range 31E	Feet from the 250	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
1									

Latitude: 32.1528893 Longitude: -103.7636414

NATURE OF RELEASE

Type of Release Spill Produced water	Volume of Release 7 BBLS	Volume Recovered 6 BBLS
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Strainer on water injection pump number 3	6/2/2016 @ 10:40pm	6/2/2016 @ 10:40pm
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🔲 No 🔲 Not Required	OCD-Mike Bratcher	
	BLM-Jim Amos	
By Whom?	Date and Hour	
Matt Nettles, Production Foreman & Brett Fulks, EHS Professional	OCD- 6/8/2016 @ 11:04am	
	BLM- 6/3/2016 @ 9:00am	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse
🗌 Yes 🔀 No	N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*

The plug on the strainer running to the number three water injection pump corroded resulting in a release of 7 BBLS of produced water. The number 3 water injection pump was shut down immediately to prevent further release. The corroded plug was replaced on the strainer.

Describe Area Affected and Cleanup Action Taken.*

7 BBLS of produced water was released from a corroded plug on the strainer that runs from the water injection pump number 3. The approximate area affected was 3ft wide x 18ft long flowing to the south western part of the pad. All 7 BBLS of produced water released remained on location. None of the released fluid left location. Vacuum truck recovered approximately 6 BBLS of the released produced water. Environmental agency will be contacted for remediation.

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

Signature: Sarah Gallegos-Troublefield	OIL CONSERVATION DIVISION Signed By Mily Brancher
Printed Name: Sarah Gallegos-Troublefield	Approved by Environmental Specialist:
Title: Field Admin Support	Approval Date: 010110 Expiration Date: N/A
E-mail Address: Sarah.Gallegos-Troublefield@dvn.com	
Date: 6/9/2016 Phone: 575.748.1864	Remediation per O.C.D. Rules & Guidelinésached
Attach Additional Sheets If Necessary	LATER THAN: 203728

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.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \boxtimes Description of remediation activities

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

Printed Name:Dale_Woodall7	itle: Environmental Professional
Signature: Dale Woodall	Date:2/7/2023
email:Dale.Woodall@dvn.com	Telephone: <u>575-74</u> 8-1848
OCD Only	
Received by:	Date:
	the responsible party of liability should their operations have failed to adequately investigate at to groundwater, surface water, human health, or the environment nor does not relieve the federal, state, or local laws and/or regulations.
Closure Approved by:	Date:

Title:

Printed Name:

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							AR	TESIA DI	STRICT		
District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III					New Mexi nd Natura	Δ	PR 21	2017	1	Form C-141 Revised August 8, 2011	
			0,	Energy Minerals and Natural Resources Control Revised An Oil Conservation Division RECEIVED accordance with 19.15.							
000 Rio Brazo	s Road, Aztec	c, NM 87410			COS Land L VI	St. Franc	is Dr	RECEIV	/ED ad	ccordance w	ith 19.15.29 NMAC.
	icis Dr., Santa	Fe, NM 87505	5			NM 875					
			Rela	ease Notifi				ction	U.		1
DAB	11155	51324	-			OPERAT				al Report	Final Repo
				ion Company					Foreman	ls	
		Rivers Hwy Draw Unit	the second s	NM 88210			No. 575-513-57 De Salt Water E				
	vner Feder			Mineral		1000			APIN	0 30-015-3	1381
Minace Or	viter reder	ai			1		DIOD	- All	ALIN	0.50-015-5.	1561
Unit Letter	Section	Township	Range	Feet from the		OF REI	Feet from the	Fact/M	est Line	County	
O	3	25S	31E	250	and the second sec	FSL	1980	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EL	Eddy	
	11		I.a	titude: 32.1528	8803	Lon	gitude: -103.76.	36414		1	
			C.			OF RELI					
Type of Rele				19/11	UNL	Volume of				Recovered	1.6
Produced Wa			-			16bbls	Hour of Occurre		5BBLS	Hour of D	CODVARY
Vater tanks	elease	100		-			@ 10:00 PM	ence		7 @ 10:00 P	
Was Immed	iate Notice		Yes [No D Not R	lequired	If YES, To BLM	Whom?	-			
1111 0					20-22-2	OCD		_			
By Whom? David Simm	ons, Assista	nt Production	Foreman				10ur /2017 @ 11:00 P /20107 @11:02 F				
Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse N/A						
was a wate	reource rec		Yes 🗵	No			nume nupacuu	g the wa	cer e o ur o e		
If a Waterce							nume nupacun	g the tra			
If a Waterco N/A Describe Ca A filter scree	ourse was In use of Prob on plug was n	mpacted, Des	scribe Ful medial Ac ne triplex p	ly.* tion Taken.* ump causing a 16	5BBL pro	N/A					supply valve
If a Waterco N/A Describe Ca A filter scree feeding the p Describe Ar Approximate	ourse was In tuse of Prob on plug was to oump was clo rea Affected ely 16bbls pr	mpacted, Des plem and Rer missing on th osed and the p and Cleanu roduced wate	scribe Ful medial Ac triplex p plug was r p Action 7 r was relea	ly.* tion Taken.* ump causing a 16 eplaced. Faken.*	ontainmen	N/A duced water t. A vacuum	release outside o	f contain	ment. The	e main water	
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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: _____Dale Woodall ______ Title: ____Environmental Professional Signature: Dale Woodall Date: 2/7/2023 email: Dale.woodall@dvn.com Telephone: 575-748-1848 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Title: Printed Name:



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. 1st 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 1.

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.

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'	-	1 4 1 4	4	-	752
	1'	a a a	-	-	-	432
	2'	-	-	-	-	704
	3'	-	-	-	-	496
	4'		-	-	-	496
S-4	0'	-		-	-	32

See Appendix IV for complete report of laboratory results.

--Analyte Not Tested

Page |3

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

5 m. Wilson Kimberly Wilson

Rimberly Wilson Project Manager

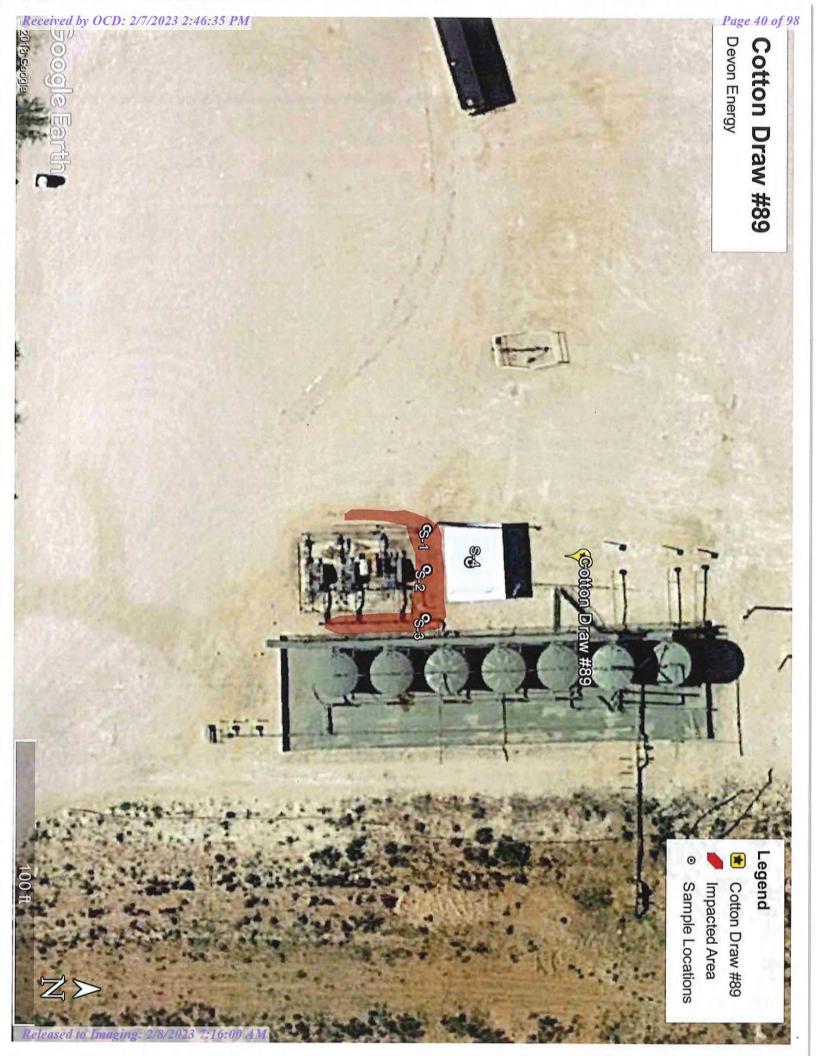
Attachments:

Appendix I	Site Plan
Appendix II	Initial C-141
Appendix III	Groundwater Data
Appendix IV	Laboratory Results

APPENDIX I

SITE PLAN

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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 2RP-4186



2RP-3198/2RP-3728





APPENDIX V

Analytical Data



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

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 www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



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

Received:	09/17/2015	Sampling Date:	09/16/2015	
Reported:	09/18/2015	Sampling Type:	Soil	
Project Name:	COTTON DRAW NO. 89	Sampling Condition:	** (See Notes)	
Project Number:	700794.165.01	Sample Received By:	Jodi Henson	
Project Location:	EDDY CTY.			
Troject Beeddorn				

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

Chloride, SM4500Cl-B mg/kg		Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/18/2015	ND	432	108	400	3.77	

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

Chloride, SM4500Cl-B mg/kg		Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/18/2015	ND	432	108	400	3.77	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/18/2015	ND	432	108	400	3.77	

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

Chloride, SM4500Cl-B mg/kg		Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2015	ND	432	108	400	3.77	

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Celeg D. Keene



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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below,
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Relinquished By: Sampler - UPS Relinquished By: PLEASE NOTE: Liability and Damagee. Cardinat's skellity and client's examples. All claims including these for negligence and any other cause anvior. In no event shall Cardinal be liable for incidental or consequents Laboratories Delivered By: (Circle One) Project Name: Project # 700 794 Phone #: 746-8760 City: UFTI A Project Manager: Company Name: **RSCHOOH** Sampler Name: Project Location: Address: 408 Lab I.D. FOR LAB USE ONLY Cardinal cannot accept verbal changes. Please fax written changes to 505,393-2476 2 0 Bus - Other: (575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240 5 1 K a 3 Sample I.D 6 4 N w 10 Project Owner: Links Time: Date: Fax #: State: UM Zip: 88210 ive remedy for any claim soever shall be deemed # 89 den STOD GRAB OR (C)OMP. Received By # CONTAINERS luon Ived By GROUNDWATER Cool Intact Sample Condition when based in contract or bot, shall be limited WASTEWATER I made in welfing and received by Cardinal within 30 days after completion of the uppele interest interruption, less of tars, or less of profits insured by cleen, its subsidiarders, whether such claim is based upon any of the above stated areas or therefore Y: Y: How Man MARM REMARKS: SOIL MATRIX OIL SLUDGE State: City: OTHER : Fax #: Phone #: Attn: Address: Company: 10001 P.O. #: ACID/BASE: PRESERV ICE / COOL OTHER : (a) = = [a] 3 Zip: BY: DATE 14/15 SAMPLING id by the client for the CHAIN-OF-CUSTODY AND ANALYSIS REQUEST TIME nu e licable lust!! TYes IN0 Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

Page 4 of 4



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

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 www.tceq.texas.gov/field/ga/lab 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/11/2016	Sampling Date:	01/11/2016	
Reported:	01/13/2016	Sampling Type:	Soil	
Project Name:	COTTON DRAW #89	Sampling Condition:	Cool & Intact	
Project Number:	700794.165.01	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze				_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank.	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/13/2016	ND	400	100	400	0.00	

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

Received:	01/11/2016	Sampling Date:	01/11/2016	
Reported:	01/13/2016	Sampling Type:	Soil	
Project Name:	COTTON DRAW #89	Sampling Condition:	Cool & Intact	
Project Number:	700794.165.01	Sample Received By:	Jodi Henson	
Project Location:	EDDY COUNTY, NM			
. A. 3 A • 2012 - 2019 USA 2019 - 2019	A DAMAGE CONTRACTOR AND A DAMAGE			

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	2010				-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	00Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP	
the second se			

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	01/13/2016	ND	400	100	400	0.00	

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/13/2016	ND	400	100	400	0.00	

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

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	01/13/2016	ND	400	100	400	0.00	

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Celeg D. Keine



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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
~	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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city: Artesia Project Manager: company Name: Talon/LPE Phone # 575-746-8768 Project #: 700794 (6501 Address: 408 W. Texas Ave Sampler Name: Project Location: Project Name: HLODOD FOR LAB USE ONLY analyses. All claims including those for negligence, apylos, in no event shall Caedinal be (able for incl animates or successors arbitra and of or related to the pos Relinquisiped By: Relinduished By: LEASE NOTE: Linkliny and Damages. Cardinal's link Lab I.D. Sampler - UPS - Bus - Other: Delivered By: (Circle One) + Cardinal cannot accept verbal changes, Please fax written changes to (575) 393-2326 ş 0 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 54 5-4 54 5-4 Cotton DANN EODY hec Sample I.D. Swir 4×0 and any 4,0 Wy and sherits exclusive remery for any size analys whether based in sourcest or bot, shall be timbed to the smouth pad by the closet for the rany other source whether which he desmed wahed unless made in writing and reached by Caedical with States after completion of the app all or emergencial damages, including without imfalient, basheets interruptions, jess of uses of packs insumed by sizer, its subclimation, 3.0 2:0 9 Fax #: 575-746-8905 Project Owner: 89 state: NM Zip: 88210 Date: Time: Time: (G)RAB OR (C)OMP. DEVON Received By: 1.20 # CONTAINERS aived By: GROUNDWATER WASTEWATER Cool Intact ample Condition MATRIX XX. SOIL K × OIL SLUDGE P.O. 非 State: city: Attn: company: Talon/LPE Fax #: Phone #: Address: OTHER : PRESERV. ACID/BASE: ICE/.COOL Initiality STEELS OTHER : Zip: SAMPLING DATE 51111 12:05 11:56 12:00 Phone Result Fax Result REMARKS: TIME × XX. K CHIORIDES 口 Yes □ No Add'I Phone 共 □ Yes □ No Add'I Fax 共 ANALYSIS REQUEST

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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

Released to Imaging: 2/8/2023 7:16:00 AM

Company Name: Talon/LPE Project Manager: Phone # 575-746-8768 Address: 408 W. Texas Ave Project Location: Project Name: Cotton Project #: 700794.165. city: Artesia Sampler Name: Lab I.D. FOR LAB USE ONLY H1600000 malgers. All claims including those for negligence and any Sampler - UPS - Bus - Other: Rephraushed By: Relinquished By: Delivered By: (Circle One) BASE NOTE: Liability and Da ice, in no event shall Care + Cardinal cannot accept verbal changes, Please fax written changes to (575) 393-4326 ი C 3 p 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 5-2 5-2 53 3 5-2 53 53 5-2 out of or related to the De n 60 imbed tes, Cardinal's lability and Sample I.D. 4.0 310 20 1.0 Umwww 410 310 2,0 1,0 Sult. 0 Project Owner: Fax# 575-746-8905 # 99 state: NM Zip: 88210 Date: Time: WISBA lusive remark for a (G)RAB OR (C)OMP. Devon 4:20 Received By: # CONTAINERS GROUNDWATER WASTEWATER Sample Condition Cool Intact Pryes Pryes No No No S MATRIX made in writing and received by Cardinal within SOIL OIL. SLUDGE P.O. 井 city: company: Talon/LPE State: Attn: Fax # Phone #: Address: OTHER : loss of use, or loss PRESERV. ACID/BASE: ICE/COOL BILLETO OTHER : Zip: Holis KED BY: SAMPLING DATE 3D days nt paid by the client for the a after completion of the appli d by client, its subclitaries, 01/1 11:40 11:03 Phone Result: Fax Result: REMARKS: 11:39 11:45 1143 10:53 0 TIME houdes 1 Yes I No ANALYSIS Add'l Phone 引 Add'l Fax 井 REQUEST

Page 6 of 7

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

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 www.tceq.texas.gov/field/ga/lab 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/06/2017	Sampling Date:	12/05/2017
Reported:	12/09/2017	Sampling Type:	Soil
A PROPERTY OF A			
Project Name:	COTTON DRAW #89	Sampling Condition:	Cool & Intact
Project Number:	700794.244.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	12/07/2017	ND	448	112	400	0.00	

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

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/07/2017	ND	448	112	400	0.00	

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16,0	12/07/2017	ND	448	112	400	0.00	

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

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/07/2017	ND	448	112	400	0.00	

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



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

Received:	12/06/2017	Sampling Date:	12/05/2017	
Reported:	12/09/2017	Sampling Type:	Soil	
Project Name:	COTTON DRAW #89	Sampling Condition:	Cool & Intact	
Project Number:	700794.244.01	Sample Received By:	Tamara Oldaker	
Project Location:	EDDY COUNTY, NM			
Reported: Project Name: Project Number:	12/09/2017 COTTON DRAW #89 700794.244.01	Sampling Type: Sampling Condition:	Soil Cool & Intact	

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	12/07/2017	ND	448	112	400	0.00	

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/07/2017	ND	448	112	400	0.00	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC	-			_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/07/2017	ND	448	112	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/08/2017	ND	448	112	400	0.00	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/08/2017	ND	448	112	400	0.00	

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*=Accredited Analyte

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Celleg Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/06/2017	Sampling Date:	12/05/2017
Reported:	12/09/2017	Sampling Type:	Soil
Project Name:	COTTON DRAW #89	Sampling Condition:	Cool & Intact
Project Number:	700794.244.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/08/2017	ND	448	112	400	0.00	

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

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/08/2017	ND	448	112	400	0.00	

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Notes and Definitions

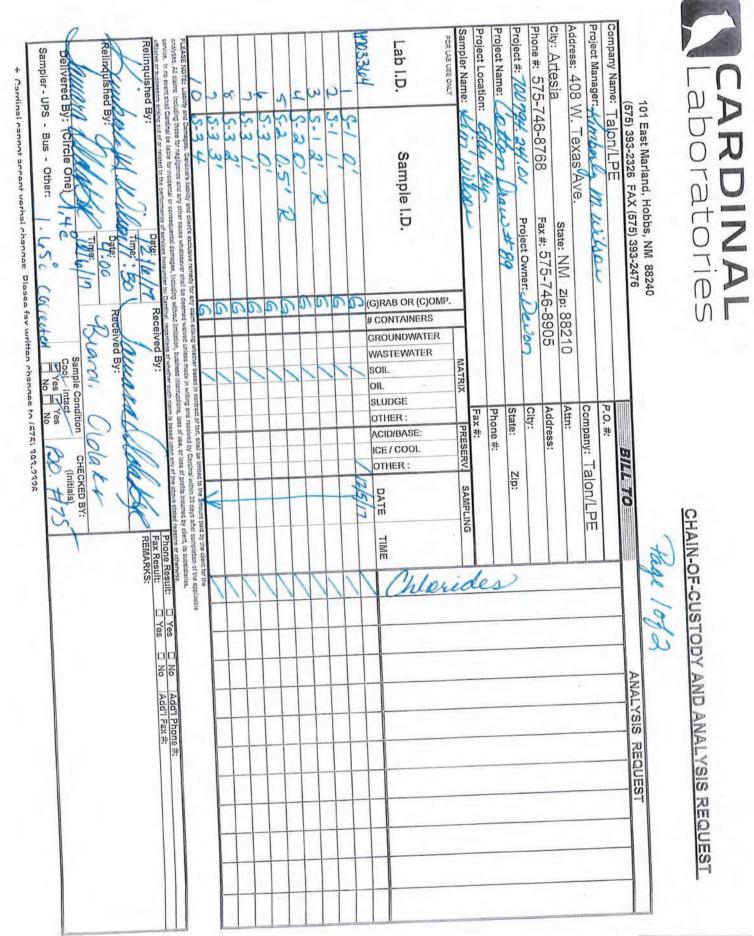
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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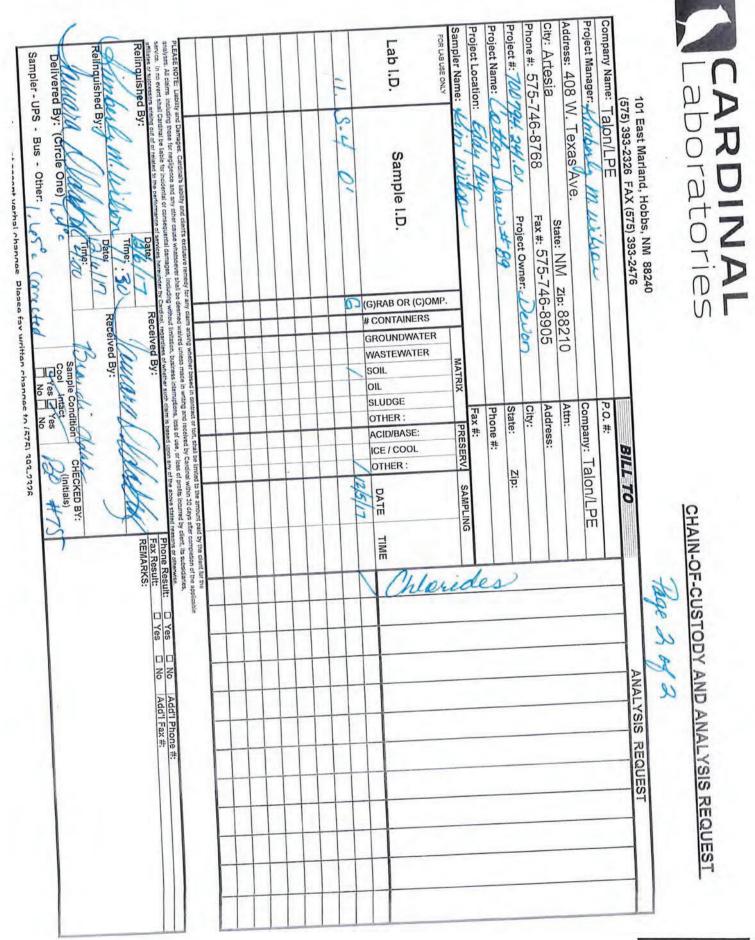
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July 20, 2020

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

RE: Cotton Draw Unit 89

OrderNo.: 2007963

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analy	vsis Laboratory, In	10.			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	2020	
CLIENT: Talon Artesia		Clien	t Sample II	D: S-1	['		
Project: Cotton Draw Unit 89		Col	lection Dat	e: 7/1	6/2020 12:03:00 PM) PM	
Lab ID: 2007963-001	Matrix: SOIL	Re	ceived Dat	ate: 7/18/2020 11:05:00 AM			
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: JMT	
Chloride	1100	60	mg/Kg	20	7/19/2020 7:54:29 PM	1 53808	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- NDNot Detected at the ReportingPQLPractical 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

Hall Environmental Analy	ysis Laboratory, Inc	ו			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	020
CLIENT: Talon Artesia		Clien	t Sample II	D: S-1	I N SW 1'	
Project: Cotton Draw Unit 89		Coll	lection Dat	e: 7/1	6/2020 12:06:00 PM	[
Lab ID: 2007963-002	Matrix: SOIL	Re	ceived Dat	e: 7/1	8/2020 11:05:00 AM	1
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	ND	60	mg/Kg	20	7/19/2020 5:15:26 PM	1 53811

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 2 of 16

Hall Environmental Analy	vsis Laboratory, Inc	с.			2020			
CLIENT: Talon Artesia		Clien	t Sample II	D: S-1	1 S SW 1'			
Project: Cotton Draw Unit 89		Coll	ection Dat	e: 7/1	6/2020 12:10:00 PM	1		
Lab ID: 2007963-003	Matrix: SOIL	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: JMT		
Chloride	720	60	mg/Kg	20	7/19/2020 5:52:41 PM	<i>I</i> 53811		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH 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 Anal	lysis Laboratory, In	с.			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	020
CLIENT: Talon Artesia Project: Cotton Draw Unit 89			t Sample II lection Dat		2 3' 6/2020 12:13:00 PM	
Lab ID: 2007963-004	Matrix: SOIL	001			.8/2020 11:05:00 AM	-
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	190	60	mg/Kg	20	Analy 7/19/2020 6:05:05 PM	st: JMT 1 53811

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 16

Hall Environmental Analy	vsis Laboratory, Inc	•			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	020
CLIENT: Talon Artesia		Clien	nt Sample II	D: S-2	2 N SW 3'	
Project: Cotton Draw Unit 89		Col	llection Dat	e: 7/1	6/2020 12:15:00 PM	[
Lab ID: 2007963-005	Matrix: SOIL	R	eceived Dat	e: 7/1	8/2020 11:05:00 AM	1
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	460	60	mg/Kg	20	7/19/2020 6:17:30 PM	1 53811

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- NDNot Detected at the ReportingPQLPractical 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.			Analytical Report Lab Order 2007963 Date Reported: 7/20				
CLIENT: Talon Artesia		Clien	t Sample II	D: S-2	2 S SW 3'		
Project: Cotton Draw Unit 89	Collection Date: 7/16/2020 12:30:00 PM					[
Lab ID: 2007963-006	Matrix: SOIL	.8/2020 11:05:00 AM	1				
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: JMT	
Chloride	110	60	mg/Kg	20	7/19/2020 6:29:54 PM	1 53811	

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 6 of 16

Hall Environmental Analysis Laboratory, Inc.			Analytical Report Lab Order 2007963 Date Reported: 7/20/2020				
CLIENT: Talon Artesia		Clien	t Sample II	D: S-3	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 11:05:0					[
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	st: JMT	
Chloride	310	60	mg/Kg	20	7/19/2020 6:42:18 PM	53811	

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit
- Page 7 of 16

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Released to Imaging: 2/8/2023 7:16:00 AM

Hall Environmental Analysis Laboratory, Inc.			Analytical Report Lab Order 2007963 Date Reported: 7/20/				
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 Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	st: JMT	
Chloride	280	60	mg/Kg	20	7/19/2020 7:19:32 PN	53811	

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

Hall Environmental Analysis Laboratory, Inc.			Analytical Report Lab Order 2007963 Date Reported: 7/20/202				
CLIENT: Talon Artesia Client Sample ID: S-3 S SW					S SW 3'		
Project: Cotton Draw Unit 89	Collection Date: 7/16/2020 12:36:00 PM						
Lab ID: 2007963-009	Matrix: SOIL Received Date: 7/18/2020 11:05:00					[
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: JMT	
Chloride	320	60	mg/Kg	20	7/19/2020 7:31:57 PM	53811	

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 Analy			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	2020			
CLIENT: Talon Artesia		Clien	t Sample I	D: S-4	4 0.5'		
Project: Cotton Draw Unit 89	Collection Date: 7/16/2020 12:38:00 PM						
Lab ID: 2007963-010	Matrix: SOIL	Re	ceived Dat	t e: 7/1	.8/2020 11:05:00 AN	1	
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: JMT	
Chloride	120	60	mg/Kg	20	7/19/2020 7:44:21 PM	<i>I</i> 53811	

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 10 of 16

Hall Environmental Analy	•			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	020	
CLIENT: Talon Artesia		Clien	t Sample II	D: S-4	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	Re	eceived Dat	e: 7/1	8/2020 11:05:00 AM	1
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	140	60	mg/Kg	20	7/19/2020 7:56:45 PM	1 53811

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

Hall Environmental Analy	vsis Laboratory, Inc	•			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	020
CLIENT: Talon Artesia		Clien	t Sample II	D: S-4	4 E SW 0.5'	
Project: Cotton Draw Unit 89		Col	lection Dat	e: 7/1	6/2020 12:44:00 PM	
Lab ID: 2007963-012	Matrix: SOIL	Re	eceived Dat	e: 7/1	8/2020 11:05:00 AM	[
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	340	61	mg/Kg	20	7/19/2020 8:09:09 PN	53811

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 Analy	vsis Laboratory, In	с.			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	2020
CLIENT: Talon Artesia		Clien	t Sample II	D: S-	1 A 2'	
Project: Cotton Draw Unit 89	Collection Date: 7/16/2020 12:50:00 PM					
Lab ID: 2007963-013	Matrix: SOIL	Re	ceived Dat	t e: 7/1	.8/2020 11:05:00 AM	1
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	200	60	mg/Kg	20	7/19/2020 8:21:34 PM	A 53811

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- NDNot Detected at the ReportingPQLPractical 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 RangeRL Reporting Limit

Page 13 of 16

Hall Environmental Analy	vsis Laboratory, In	с.			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	2020	
CLIENT: Talon Artesia		Client	t Sample II	D:S-2	2 A 2'		
Project: Cotton Draw Unit 89	Collection Date: 7/16/2020 12:54:00 PM						
Lab ID: 2007963-014	Matrix: SOIL	Re	ceived Dat	e: 7/1	.8/2020 11:05:00 AN	1	
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	rst: JMT	
Chloride	1000	60	mg/Kg	20	7/19/2020 8:33:59 PM	<i>I</i> 53811	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- NDNot Detected at the ReportingPQLPractical 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 Analy	vsis Laboratory, Inc	с.			Analytical Report Lab Order 2007963 Date Reported: 7/20/2	2020	
CLIENT: Talon Artesia		Clien	t Sample II	D: S-3	3 A 2'		
Project: Cotton Draw Unit 89	Collection Date: 7/16/2020 1:00:00 PM						
Lab ID: 2007963-015	Matrix: SOIL	Re	ceived Dat	e: 7/1	8/2020 11:05:00 AN	1	
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: JMT	
Chloride	88	60	mg/Kg	20	7/19/2020 8:46:24 PN	1 53811	

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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Ta	lon Artesia
Project: Co	tton 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

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2007963

20-Jul-20

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ANALY	DNMENTA SIS Atory	AL	TEL	l Environmei .: 505-345-3 ?bsite: client	490 Albuquero 975 FAX:	01 Hawki jue, NM 505-345	ins NE 87109 5-4107	Sam	nple Log-In Check	(List
Client Name:	Talon Artes	ia	Work	Order Num	ber: 200	7963			RcptNo: 1	
Received By:	Leah Baca	3	7/18/202	20 11:05:00	AM		Laal	SBaca	L	
Completed By:	Leah Baca	a	7/18/202	20 12:06:39	PM		1_1	JBaen Baen		
Reviewed By:	Ref 7	118/20					Law	Juni		
Chain of Custo	ody									
1. Is Chain of Cus	stody compl	ete?			Yes		N	•	Not Present	
2. How was the s	ample deliv	ered?			Clie	nt				
Log In										
3. Was an attemp	ot made to c	ool the sampl	es?		Yes	~	No			
4. Were all sample	es received	at a temperat	ure of >0° C t	o 6.0°C	Yes		No			
5. Sample(s) in pr										
5. Sample(s) in pl	roper contai	ner(s)?			Yes		N	o □		
6. Sufficient samp	le volume fo	or indicated te	st(s)?		Yes	~	No			
7. Are samples (e:	xcept VOA a	and ONG) pro	perly preserve	d?	Yes		No			
8. Was preservativ	ve added to	bottles?			Yes		No			
9. Received at lea		in the second								
10. Were any same				JA?	Yes				NA 🗹	
TO, were any samp	Sie containe	IS received b	oken?		Yes		INC		# of preserved	
11. Does paperworl	k match bot	tle labels?			Yes	\checkmark	No		bottles checked for pH:	/
(Note discrepan	icies on cha	in of custody)	1						(<2 or >12 unl	ess noted)
12. Are matrices co					Yes		No		Adjusted?	
13. Is it clear what a			?		Yes				12	7/18/2
14. Were all holding (If no, notify cus					Yes	\checkmark	No		Checked by: 13	1/0/20
Special Handlin										
15. Was client noti	fied of all di	screpancies v	with this order?		Yes		No		NA 🔽	
Person N		and the second dense of the	and the second state of the damage of	Date:	J	and a started		a second second		
By Whon				Via:	🗌 eM	ail 🗌	Phone [Fax	In Person	
Regardin										
	structions:									
16. Additional rem	arks:									
17. Cooler Inform										
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	By		
1 2	5.0 5.2	Good Good								

Page 1 of 1

ANALYSIS ANALYSIS www.hallenviron	Tel. 505-345-3975 Fax 505-345-4107 00 Analysis Request	↓ (1r	PCB's PO4, 50 n9sdM5	28082 04.1) 27.827(37.827(402, 402,	-VO 10 5 10 3 10 3 10 4 10 4 10 4 10 4 10 4 10 4 10 4 10 4	estic Metho 8 We 8 Me 8 Me 3r, <i>N</i> (AO)	8081 P PAHs t RCRA () 8260 () 8260 ()									×				directly to Devon Energy		8101 6d	
Turn-Around Time: Turn-Around Time: Standard Arush Ar Dury Project Name: 28P-3198 Cotton Draw Unit # 89 Project #:	94.241.01	er:	Rebecca Pons 15 (8021	TTMB The Sinclair	AD + OF S.D BE	5,2 0° 5,2 MT		2	200-	- 003	h00 -	-005	-006	-00-	-008	- 006	-010-	-01		Received by: Via: Date Time Remarks:	Time	Xein + 7/18/20 1105	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.
Client: Talon LPE Mailing Address: 408 W Texas Ave	Phone #: 575-746-8768	email or Fax#:	QA/QC Package:	Accreditation:	ype)		Date Time Matrix Sample Name	7-16-2012:03 50; 5-1 1	12:06 S-1 N SW 1'	12:10 S-1 5 SW 1	12:13 5-2 3 6	12:15 S-2 N SW 3	12:30 S-2 S SW 3	12:34 5-3 3'	12:35 S-3 N SW 3	12:36 S-3 5 5 W 3	. 12:38 5-4 0.5	12:41 5-4 W SW 0.5	1 12:44 1 S-4 E SW 0.5'	Relinquished by:		1/17/20/1900 UNUMINING	If necessary, samples submitted to Hall Environmental may be sut

<i>Received by OCD: 2/7/2023 2</i> ;	4 <u>6:35 PM</u>		Page 82 of 98
ENVIRONMENTAL YSIS LABORATORY environmental.com Albuquerque, NM 87109 Fax 505-345-4107 alysis Request			Energy Porofi analytical report.
IALL ENVIRONME IALL ENVIRONME NALYSIS LABOR www.hallenvironmental.com ins NE - Albuquerque, NM 87109 5-3975 Fax 505-345-4107 Analysis Request		3	Devon Introduction
HALL ENVJ ANALYSIS www.hallenvironm kins NE - Albuquer 845-3975 Fax 50	B260 (VOA) D) F, Br, NO ₃ , NO ₂ , PO4, SO ₄		to t lbe clearly
HALL ANAL www.hal kins NE - 845-3975	PAHs by 8310 or 8270SIMS PCRA 8 Metals		ed data wi
ANAL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	EDB (Method 504.1)		emarks: Bill directly ssibility. Any sub-contracted
4901 H	8081 Pesticides/8082 PCB's	and the second sec	dir Any sul
	ТРН:8015D(GRO / DRO / MRO)	transformer and the second s	Bill o
	BTEX / MTBE / TMB's (8021)		Ren 8 s possi
Time: 4 day Sum Duy Rush 2 Row Duy : 2 RP 4186 Draw Unit # 89	per: Pons Mar Sinclair Myes DNo Maluding CFJ: 50 + 60 - 5,2 Including CFJ: 50 + 60 - 5,2 Preservative HEAL No. Type 2007903	- 013 - 014 - 015	a: Date Time reg 7/17/20 1050 a: COVN Date Time 3/18/20 1105 ad laboratories. This serves as notice of thi
Turn-Around Tir Standard Project Name: Project #: Zoo794. 2	Project Manager: Rebecca Pons Sampler: Branden On Ice: XYes # of Coolers: 2 Cooler Temp(Including cr): Container Preserva Type and # Type	4 02 jar	Received by: Via: <i>QUUMMUU</i> Received by: Via: Received by: Via:
Chain-of-Custody Record Client: Jalon LPE Mailing Address: 408 W Texas Ave Phone #: 575-746-8768	email or Fax#: QA/QC Package: CA/QC Package: CA/CC Package:	7-16-2012:50 50il 5-1 A 2 12:54 5-2 4 2 13:00 5-3 A 2	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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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

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Talon Artesia

Project:

Analytical Report Lab Order 2008120

Date Reported: 8/12/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 89 CDU89

Client Sample ID: B-1 0'-1' Collection Date: 8/3/2020 12:51:00 PM Received Date: 8/5/2020 8:00:00 AM

Lab ID: 2008120-001	Matrix: SOIL	Received Date: 8/5/2020 8:00:00 AM									
Analyses	Result	RL	RL Qual Units		Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: JMT					
Chloride	1500	60	mg/Kg	20	8/7/2020 4:36:02 PM	54256					
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Analys	t: 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 RAN	GE				Analys	t: 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					Analys	t: 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
- D Sample Diluted Due to MatrixH 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 12

Analytical Report Lab Order 2008120

Hall Environmental Analysis Laboratory. Inc.

Hall Environmental Analysis	Hall Environmental Analysis Laboratory, Inc.									
CLIENT: Talon Artesia		Clier	nt Sample II): B-	1 2'					
Project: Devon Cotton Draw 89 CDU89	Collection Date: 8/3/2020 12:53:00 PM									
Lab ID: 2008120-002	D: 2008120-002 Matrix: SOIL Received Date: 8/5/2020 8:00:00 AN									
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analysi	: JMT				
Chloride	72	60	mg/Kg	20	8/7/2020 4:48:24 PM	54256				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				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				

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Talon Artesia

2008120-003

Project:

Lab ID:

Analytical Report Lab Order 2008120

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 89 CDU89

Date Reported: 8/12/2020

Client Sample ID: B-1 3' Collection Date: 8/3/2020 12:56:00 PM

Received Date: 8/5/2020 8:00:00 AM

Date: 8/3/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	76	60	mg/Kg	20	8/7/2020 5:00:44 PM	54256
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: 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					Analys	t: 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
EPA METHOD 8021B: VOLATILES					Analys	t: 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

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

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2008120

8/6/2020 7:27:12 PM

54195

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008120 Date Reported: 8/12/2020

CLIENT: Talon Artesia Project: Devon Cotton Draw 89 CDU89	Client Sample ID: B-1 4' 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					Analys	t: JMT			
Chloride	1300	60	mg/Kg	20	8/7/2020 5:13:04 PM	54256			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: 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					Analys	t: 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					Analys	t: 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			

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80-120

%Rec

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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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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2008120

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/12/2020

CLIENT: Talon Artesia	Client Sample ID: B-1 6' Collection Date: 8/3/2020 1:09:00 PM								
Project: Devon Cotton Draw 89 CDU89									
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	: JMT			
Chloride	690	60	mg/Kg	20	8/7/2020 5:25:25 PM	54256			
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				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			

105

80-120

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

1

8/6/2020 7:50:40 PM

54195

%Rec

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Page 5 of 12

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2008120** Date Reported: **8/12/2020**

CLIENT: Talon Artesia	Client Sample ID: B-1 8'								
Project: Devon Cotton Draw 89 CDU89	Collection Date: 8/3/2020 1:08:00 PM								
Lab ID: 2008120-006	Matrix: SOIL		Received Dat	e: 8/5	5/2020 8:00:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: MRA			
Chloride	210	60	mg/Kg	20	8/8/2020 1:09:37 PM	54277			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: 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	E				Analys	t: 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			
EPA METHOD 8021B: VOLATILES					Analys	t: 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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Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008120

8/6/2020 8:37:41 PM

54195

54195

54195

54195

54195

54195

Analyst: NSB

Date Reported: 8/12/2020

CLIENT:	Talon Artesia		Client Sample ID: B-1 10'								
Project:	Devon Cotton Draw 89 CD	U89	Collection Date: 8/3/2020 1:10:00 PM								
Lab ID:	2008120-007	Matrix: SOIL	Matrix: SOIL Received Date: 8/5/2020 8:00:00 AM								
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 300.0: ANIONS					Analyst	MRA				
Chloride		96	60	mg/Kg	20	8/8/2020 1:46:38 PM	54277				
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: BRM				
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	8/6/2020 6:39:26 PM	54200				
Motor O	il 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 ME	THOD 8015D: GASOLINE R	ANGE				Analyst	: NSB				
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2020 8:37:41 PM	54195				

100

ND

ND

ND

ND

106

75.3-105

0.025

0.049

0.049

0.098

80-120

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

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
- Н 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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Talon Artesia

2008120-008

Project:

Lab ID:

Analytical Report Lab Order 2008120

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 89 CDU89

Date Reported: 8/12/2020
Client Sample ID: BG-1 0'-1'

Collection Date: 8/3/2020 2:37:00 PM 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	GANICS					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

Matrix: SOIL

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

Qualifiers:

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- ND Not Detected at the Reporting Limit
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- RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	WO#:	2008120	
onmental Analysis Laboratory, Inc.		12-Aug-20	

Client: Project:	Talon Artesia Devon Cotton Draw 8	9 CDU89						
Sample ID: MB-54	1256 SampTyp	e: mblk	Tes	tCode: EPA Method				
Client ID: PBS	Batch II	D: 54256	F	RunNo: 70901				
Prep Date: 8/7/2	Analysis Dat	e: 8/7/2020	S	SeqNo: 2470133	Units: mg/Kg			
Analyte Chloride	Result ND	PQL SPK value 1.5	SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Sample ID: LCS-	54256 SampTyp	e: Ics	Tes	tCode: EPA Method	300.0: Anions			
Client ID: LCSS	Batch II	D: 54256	F	RunNo: 70901				
Prep Date: 8/7/2	Analysis Dat	e: 8/7/2020	S	SeqNo: 2470135	Units: mg/Kg			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Chloride	14	1.5 15.00	0	91.9 90	110			
Sample ID: MB-54	1277 SampTyp	e: mblk	Tes	tCode: EPA Method	300.0: Anions			
Client ID: PBS	Batch II	D: 54277	F	RunNo: 70937				
Prep Date: 8/8/2	Analysis Dat	e: 8/8/2020	S	SeqNo: 2470842	Units: mg/Kg			
Analyte Chloride	Result ND	PQL SPK value 1.5	SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Sample ID: LCS-	54277 SampTyp	e: Ics	Tes	tCode: EPA Method	300.0: Anions			
Client ID: LCSS	Batch II	D: 54277	F	RunNo: 70937				
Prep Date: 8/8/2	Analysis Dat	e: 8/8/2020	S	SeqNo: 2470843	Units: mg/Kg			
Analyte			SPK Ref Val	-	5	6RPD	RPDLimit	Qual
Chloride	14	1.5 15.00	0	90.4 90	110			

Qualifiers:

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2008120	

12-Aug-20

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Client: Project:	Talon Ar Devon Co	tesia otton Draw	7 89 CD	U89								
Sample ID:	LCS-54200	SampType: LCS TestCo					EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch	n ID: 54 2	200	F	RunNo: 7	0894					
Prep Date:	8/5/2020	Analysis D	ate: 8 /	6/2020	5	SeqNo: 24	469095	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	rganics (DRO)	50	10	50.00	0	99.4	70	130				
Surr: DNOP		4.5		5.000		90.4	30.4	154				
Sample ID:	ample ID: MB-54200 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID:	PBS	Batch	n ID: 542	200	F	RunNo: 70	0894					
Prep Date:	8/5/2020	Analysis D	ate: 8 /	6/2020	S	SeqNo: 24	469098	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	rganics (DRO)	ND	10									
-	e Organics (MRO)	ND	50									
Surr: DNOP		8.6		10.00		86.5	30.4	154				
Sample ID:	2008120-001AMS	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID:	B-1 0'-1'	Batch	n ID: 542	200	F	RunNo: 7	0908					
Prep Date:	8/5/2020	Analysis D	ate: 8 /	7/2020	5	SeqNo: 24	472511	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	rganics (DRO)	130	9.8	49.02	45.12	164	47.4	136			S	
Surr: DNOP		5.0		4.902		103	30.4	154				
Sample ID:	2008120-001AMSI) SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID:	B-1 0'-1'	Batch	n ID: 542	200	F	RunNo: 7	0908					
Prep Date:	8/5/2020	Analysis D	ate: 8 /	7/2020	SeqNo: 2472512			Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	rganics (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:

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- 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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

0	

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	WO#:	2008120
tory, Inc.		12-Aug-20

Client: Project:	Talon Art Devon Co	tesia otton Drav	v 89 CD	DU89							
Sample ID:	2008120-001ams	SampT	Гуре: МS	6	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	B-1 0'-1'	Batc	h ID: 54	195	F	RunNo: 7	0872				
Prep Date:	8/5/2020	Analysis E	Date: 8 /	6/2020	S	SeqNo: 24	469358	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	4.9	24.56	0	102	61.3	114			
Surr: BFB		1100		982.3		111	75.3	105			S
Sample ID: 2008120-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range											
Client ID:	B-1 0'-1'	F	RunNo: 70872								
Prep Date:	8/5/2020	Analysis E	Date: 8 /	6/2020	S	SeqNo: 24	469359	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	4.8	24.02	0	108	61.3	114	3.20	20	
Surr: BFB		1100		960.6		113	75.3	105	0	0	S
Sample ID:	LCS-54195	SampT	Гуре: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batcl	h ID: 54	195	F	RunNo: 7	0872				
Prep Date:	8/5/2020	Analysis E	Date: 8 /	6/2020	SeqNo: 2469384			Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e 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	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	PBS	Batcl	h ID: 54	195	F	RunNo: 7	0872				
Prep Date:	8/5/2020	Analysis E	Date: 8 /	6/2020	S	SeqNo: 24	469386	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e 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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

12-Aug-20

			v								12-Aug
Client:	Talon Ar	tesia									
Project:	Devon Co	otton Drav	w 89 CD	U89							
	2008120-002ams		Type: MS					8021B: Vola	tiles		
Client ID:	B-1 2'	Batc	h ID: 54	195	F	RunNo: 7	0872				
Prep Date:	8/5/2020	Analysis [Date: 8/	6/2020	S	SeqNo: 24	469479	Units: mg/k	(g		
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-Brom	nofluorobenzene	1.1		0.9804		107	80	120			
Sample ID:	2008120-002amsd	I Samp	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	B-1 2'	Batc	h ID: 54	195	F	RunNo: 7	0872				
Prep Date:	8/5/2020	Analysis [Date: 8 /	6/2020	S	SeqNo: 24	469480	Units: mg/k	(g		
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-Brom	nofluorobenzene	1.0		0.9506		106	80	120	0	0	
Sample ID:	LCS-54195	Samp	Туре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 54	195	F						
Prep Date:	8/5/2020	Analysis [Date: 8 /	6/2020	S	SeqNo: 24	469503	Units: mg/k	g		
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-Brom	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID:	mb-54195	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS		h ID: 54			RunNo: 7					
Prep Date:	8/5/2020	Analysis [Date: 8 /	6/2020	S	SeqNo: 24	469505	Units: mg/k	g		
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								
-	nofluorobenzene	1.0		1.000		103	80	120			
2											

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
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- E Value above quantitation range
- J Analyte detected below quantitation limits
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- RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Al TEL: 505-345-397 Website: clients.h	4901 Hawk buquerque, NM 5 FAX: 505-34.	ins NE 87109 Sam 5-4107	Sample Log-In Check List						
Client Name: Talon Artesia	Work Order Numbe	r: 2008120		RcptNo:	1					
Received By: Juan Rojas	8/5/2020 8:00:00 AM		Henring							
Completed By: Juan Rojas	8/5/2020 8:20:19 AM		Hearing							
Reviewed By:	8/5/20									
Chain of Custody										
1. Is Chain of Custody complete	?	Yes 🖌	No 🗌	Not Present						
2. How was the sample delivered	d?	<u>Courier</u>								
<u>Log In</u>										
3. Was an attempt made to cool	the samples?	Yes 🗹	No 🗌	NA 🗌						
4. Were all samples received at a	a temperature of >0° C to 6.0°C	Yes ⊻	No 🗌	NA 🗌						
5. Sample(s) in proper container	(s)?	Yes 🗹	No 🗌							
6. Sufficient sample volume for in	dicated test(s)?	Yes 🗹	No 🗌							
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🔽	No 🗌							
8. Was preservative added to bot	tles?	Yes 🗌	No 🔽	NA 🗌						
9. Received at least 1 vial with he	adspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹						
10. Were any sample containers r		Yes	No 🗹 🛛							
11. Does paperwork match bottle I (Note discrepancies on chain o		Yes 🗹	No 🗔	# of preserved bottles checked for pH:	12 yaless noted)					
12. Are matrices correctly identified	.,	Yes 🖌	No 🗌	Adjusted?						
13. Is it clear what analyses were r	equested?	Yes 🔽	No 🗔							
14. Were all holding times able to (If no, notify customer for author		Yes 🗹	No 🗌	Checked by: S	148.5.20					
Special Handling (if applic				¢.	2008-0-000 - 2007 					
15. Was client notified of all discre		Yes	No 🗌	NA 🗹						
Person Notified:	Date									
By Whom:	Via:	eMail 🗌	Phone 🗍 Fax	In Person						
Regarding:										
Client Instructions:										
16. Additional remarks:										
17. <u>Cooler Information</u> Cooler No Temp °C C	ondition Seal Intact Seal No 5	Seal Date	Signed By							

Coole	r No Temp	°C Condition	1 Seal Intact	Seal No	Seal Date	Signed By
1	0	Good				
2	0.1	Good				

Page 1 of 1

	www.hallenvironment 4901 Hawkins NE - Albuquergu	N N	¢٥؛	PO4, S NINS PCB's O / MR	1) NO ₂ , 102, 102, 102, 102, 102, 102, 102, 102	(GE(103) 103) 100 100 100 100 100 100 100 100 100 10	Action (ACA)	ВТЕХ / ТРН:80 8081 Р 8260 (/ 8270 ((8270 ((7081 С 7081 С 7081 С 7081 С										Remarks: Please cc the following via email: Dadkins@talontpe.com	
Turn-Around Time: リー ひゅ ざ Standard ロ R ush	Project Name: Devoy Cotton Draw 29 (CDUS)	Project #: 700 794. 241.01	Project Manager:	Rebecca Pons	loy/3e11	Hondee A res Land	Percending CE)	Container Preservative $0.5 - 0.4 \pm 0.4$ Type and # Type 300×100	Ice/Cool		-003	$\gamma = \gamma =$	-005	-006	-004	1 1 205		Redeved by: Via: Date Time	
Chain-of-Custody Record	408 W Texas St Mailing Address: Artesia, NM 88210	Dhone # 575.441-0980	l õ	QA/QC Package:	1: El Az Compliance			Date Trime Matrix Sample Name	2151	12:53	12:57			1:08 3-1 81		2	· ·	Date: Time: Relinquished by: Run Bell	Bate: Time: Relinquished by:

Received by OCD: 2/7/2023 2:46:35 PM

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	183774
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

CONDI		
Created	Condition	Condition
Ву		Date
bhall	The site will need to meet the requirement of 19.15.29.13 NMAC at time of plugging and abandonment.	2/8/2023

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Action 183774