Page 1 of 62 Incident ID nAB1803749983 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.									
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 									
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation								
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.									
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name: <u>Dale Woodall</u>	Title: Env. Professional								
Signature: Dala Woodall	Date: _1/14/2023								
email: <u>dale.woodall@dvn.com</u>	Telephone: <u>575-748-1838</u>								
OCD Only									
Received by:	Date:								
☐ Approved ☐ Approved with Attached Conditions of	Approval Denied Deferral Approved								
Signature: Hall	Date: 1/17/2023								

PO Box 1120 Carlsbad, New Mexico 88221 Phone (575) 236-6600



June 3, 2022

NMOCD District 2 Mr. Robert Hamlet 811 S. First Street Artesia, New Mexico 88210

Dear Mr. Hamlet:

M&M Excavating, Inc. (MMX) has prepared this Remediation Deferral Request for Devon Energy Production Company that describes the release of liquids at the Cotton Draw Unit 10 Fed 2H site (2RP-4604). The site is in Unit A, Section 10, Township 25S, Range 31E, Latitude 32.151550, Longitude -103.75878, Eddy County, New Mexico, on Federal land. Figure 1 provides the vicinity and site location on an USGS 7.5-minute quadrangle map.

Site Information and Closure Criteria

The Cotton Draw Unit 10 Fed 2H is located approximately thirty-four (34) miles southeast of Carlsbad, New Mexico at an elevation of approximately 3,453 feet above mean sea level (amsl).

Based upon well water data. (Appendix B), depth to groundwater in the area is estimated to be between 390 and 470 feet below grade surface (bgs). There are no known water wells within ½ mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) and United State Geological Survey (USGS). The nearest significant watercourse is a Freshwater Pond located approximately 6150 feet to the west.

The sites applicable NMOCD Closure Criteria is for groundwater greater than fifty (>50) feet bgs. Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data and a recent groundwater determination well log is attached in Appendix B.

Release Information and Closure Criteria							
Name	Co	Cotton Draw Unit #10 Fed 2H					
API Number		30-015-39230					
Incident Number	2RP-4604						
Source of Release	Water Tank Overflow						
Released Material	Produced Water	Rele Volu	eased ume	181 bbls			
Recovered Volume	180 bbls	Net Rele		<1 bbls			
NMOCD Closure Criteria	>50 feet to groundwater	•					

Release Information

On January 21st, 2018, Approximate 181 bbls was released the majority of the release occurred inside the lined SPCC secondary containment ring however there was a 0.10 bbl overspray that did go outside the containment area and onto the location. A vacuum truck was dispatched and recovered all the fluids that were released into the lined secondary containment. Once fluids were removed the liner was visually inspected by Devon field staff for any pinholes or punctures and none were found.

Initial response activities were conducted by the operator and included source elimination, site containment and the recovery of approximately 181 bbls of crude oil. The C-141 form is included in Appendix A.

Release Characterization and Remediation Activities

January 31, 2021 MMX mobilized to the location to collect closure soil samples around the areas of concern found in the first sample event associated with 2RP-4604. Figure 3 shows the sample locations georeferenced.

MMX found the effected are to be coved with blow sand or wind blown alluvium that needed to be removed. A total of seven (7) sample locations (L1,L2 and SW1-SW5) were established and ten (10) samples, were collected at the surface and down to four feet for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Laboratories in Albuquerque, New Mexico (Appendix C).

Figure 3 shows the point of release and sample locations.

As summarized in Table 3, the results meet the NMOCD Closure Criteria at all sample locations except for SW5. SW5 is adjacent to the SPCC containment, the Produced Water tank load out and several site electrical utilities. Because of the safety concerns associated with a excavation so close to utilities MMX is requesting deferral under 19.15.29.12. The laboratory report is included in Appendix C.

At Devon Energy's request MMX mobilized on January 31, 2022 to excavate any contaminates of concern associated with 2RP-4604 release and conduct a closure sampling in accordance with 19.15.29. An area less than one yard of soil was found excavated and disposed of. On behalf of Devon Energy, MMX is requesting the deferral of the release associated with 2RP-4604 under 19.15.29.12 and 19.15.29.13.

Submitted by: M&M Excavating, Inc.

Parker Kimbley

Parker Kimbley

Cotton Draw 10 Fed 2H

Devon Energy Production Company

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

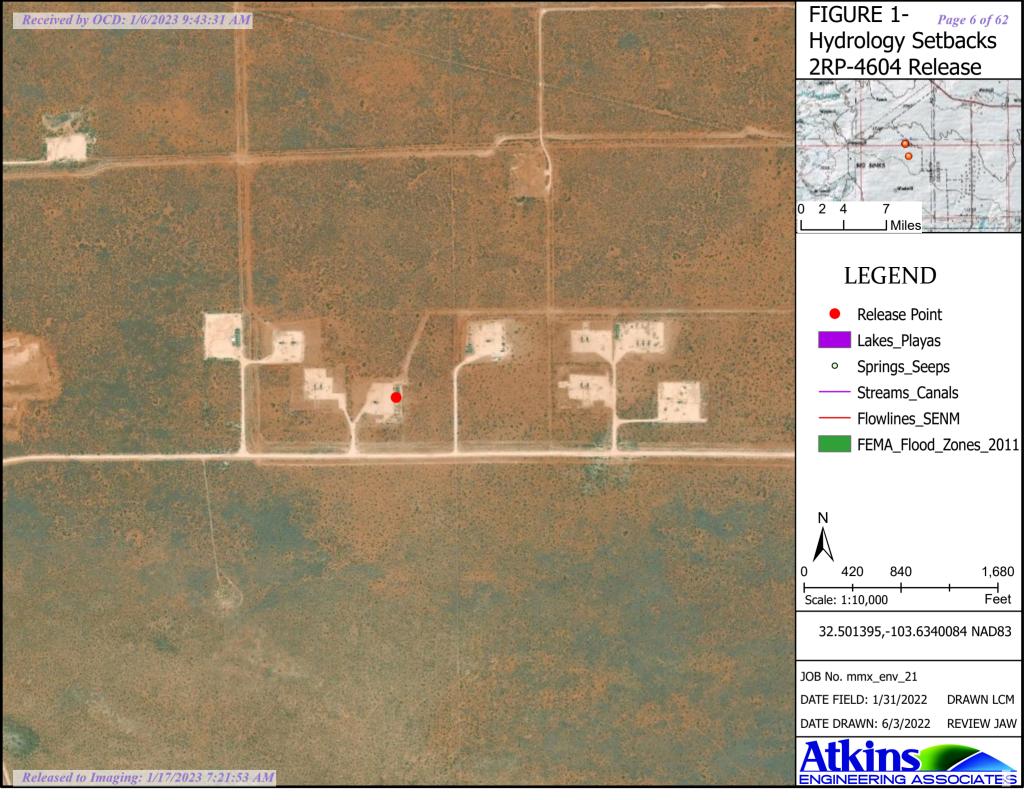
Appendices:

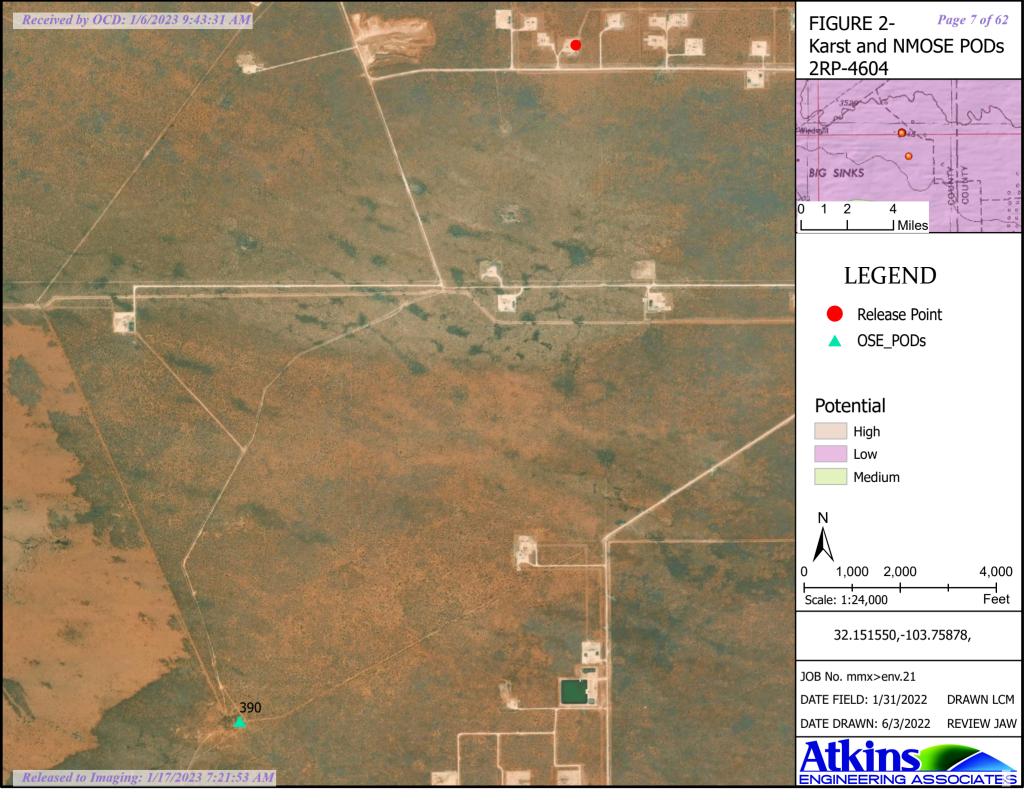
Appendix A: C141 Forms Appendix B: Water Well Data

Appendix C: Laboratory Analytical Reports/

Photos

Figures





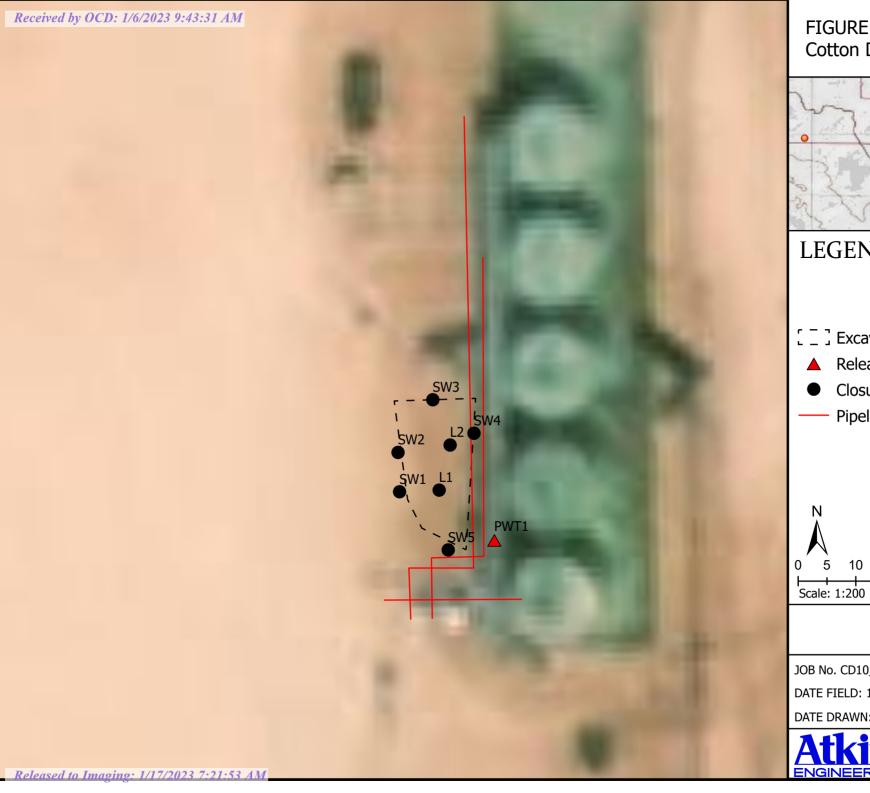
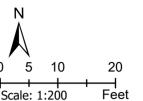


FIGURE 3 Sample Map Cotton Draw 10 Fed #2



LEGEND

-] Excavation Area
 - Release Point
- Closure Sample Location Pipeline



JOB No. CD10_env_21

DATE FIELD: 1/31/22 DRAWN JAW

DATE DRAWN: 6/2/2022 **REVIEW LCM**



Tables

Site Information (19.15.29.11.A(2, 3, and 4) NMAC	Source/Notes	
Depth to Groundwater (feet bgs)	51' to 100'	NMOSE Well Log
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	>300	USGS
Hortizontal Distance to Nearest Significant Watercourse (ft)	>1000	USGS

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)									
,	. ,	Closure Criteria (units in mg/kg)							
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene				
< 50' BGS		600	100		50	10			
51' to 100'		10000	2500	1000	50	10			
>100'		20000	2500	1000	50	10			
Surface Water		if yes	s, then						
<300' from continuously flowing watercourse or other significant									
watercourse?	NO								
<200' from lakebed, sinkhole or playa lake?	NO								
Water Well or Water Source									
<500 feet from spring or a private, domestic fresh water well used by									
less than 5 households for domestic or stock watering purposes?	NO								
<1000' from fresh water well or spring?	NO								
Human and Other Areas		600	100		50	10			
<300' from an occupied permanent residence, school, hospital, institution or church?	NO	000	100		30	10			
within incorporated municipal boundaries or within a defined									
municipal fresh water well field?	NO								
<100' from wetland?	NO								
within area overlying a subsurface mine	NO								
within an unstable area?	NO								
within a 100-year floodplain?	NO								

Table 3: Summary of Sample Results

MMX 2RP-4604

Sample ID	Sample	Depth	Proposed Action/	GRO	DRO	MRO	Total TPH	CI-
Campie 1B	Date	(feet bgs)	Action Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD CI	losure Criteria					2500	1000
SW1	1/31/2022	1	insitu	<20.0	<25.0	<50.0	<95.0	67.6
SW2	1/31/2022	1	insitu	<20.0	<25.0	<50.0	<95.0	66.1
SW3	1/31/2022	0.5	insitu	<20.0	<25.0	<50.0	<95.0	<20.0
SW4	1/31/2022	1	insitu	<20.0	<25.0	<50.0	<95.0	101
SW5	1/31/2022	1	insitu	<20.0	4760	2100	6860	371
L1-1	1/31/2022	1	excavated	<20.0	1520	1060	2580	157
L1-2	1/31/2022	2	excavated	<20.0	1610	1090	2700	64.8
L1-4	1/31/2022	4	insitu	<20.0	<25.0	<50.0	<95.0	<20
L2-1	1/31/2022	1	insitu	<20.0	<25.0	<50.0	<95.0	37.1
L2-2	1/31/2022	2	insitu	<20.0	<25.0	<50.0	<95.0	87.2

[&]quot;--" = Not Analyzed

Appendix A: C141 Forms

NM OIL CONSERVATION ARTESIA DISTRICT

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

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

State of New Mexico
Energy Minerals and Natural Resources

FER 05 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

	Santa Fe, NM 87505											
	Release Notification and Corrective Action											
NAB 18	0374	9483				OPERAT	TOR	5	Initia	al Report	П	Final Report
Name of Co	mpany D	evon Energy		ion Company	137		s Ryan, Produc					
		Rivers Hwy				Telephone No. 575-390-5436						
Facility Nar	ne Cottor	Draw 10 Fe	ederal Co	m 2H		Facility Type Oil						
Surface Ow	ner Feder	al		Mineral C	wner 1	Federal		T	API No	. 30-015-3	39230	
				LOCA	TIO	N OF REI	FACE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/We	est Line	County		
A	10	25S	31E			oodiii Diiic		Zusu ()	ost Bine	Eddy		
	<u> </u>	l	1	L	ł		<u> </u>	<u> </u>	 	<u> </u>		
			1	atitude_32.151	50_ Lo	ngitude_10	3.75878_ NAD	083				
	NATURE OF RELEASE											
Type of Rele					_=====	Volume of		1	Volume I	Recovered		
Produced Wa						181bbls			180.90 bt			
Source of Release Produced water tank							lour of Occurrence, 2018 @ 4:30 PM			Hour of Dis 1, 2018 @ 4		
Produced water tank						MST	, 2016 @ 4.30 FF	v i .	January 2	1, 2010 @ 2	+.30 F IV	1 1/1/3 1
Was Immediate Notice Given?						If YES, To						
Yes No Not Required					equired							
By Whom?						Date and H						
Mike Shoem		Representative	2			January 22	, 2018 @ 1:11 PM					
Was a Water	course Rea		1 V 57	1 N-		F	olume Impacting	the Water	course.			İ
			Yes 🗵			N/A						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*								
IN/A												
		em and Reme										
Water tank	ran over c	ausing an ap	proximat	e 181 bbl releas	e. The v	wells produci	ng to the battery	were imm	ediately s	hut in to sto	p the re	lease.
Describe Are	a Affected	and Cleanup	Action Tal	 .en.*								
Approximat	e 181 bbls	s was release	d the maj	ority of the rele								
				e the containme								
				ndary containm								
for any pinn	ioles or pu	inctures and	none wer	e found. Based	on this	inspection ti	nere is no evide	nce that t	tne spili	fluids left (contair	ment.
				e is true and comp								
				nd/or file certain r								
				ce of a C-141 report investigate and r								
				otance of a C-141								
		ws and/or regi			· 		<u>.</u>					
					}		OIL CON	SERVA	ATION	DIVISIO	<u>NC</u>	
Signature: 人	1ichael:	Shoemake	r		1				\wedge	1) ,	
						Approved by	Environmental S	Specialist:	MA A	Holy	~{\	
Printed Name	e: Michael	Shoemaker							VIV	ter	V	
Title: Enviro	nmental Pr	rofessional				Approval Da	te: 214118	E	xpiration	Date: N	A	
						0 11:1	C 4	0		<u>'</u>		
E-mail Addre	ess: mike.s	hoemaker@d	vn.com			Conditions of	f Approval:	L. d		Attached	i (X)	100 .1.
Date: 02/01	/18		Phon	e: 575.748.3371	-	XCC	Muur	W (~ <i>d</i>	KY-4100

^{*} Attach Additional Sheets If Necessary

Operator/Responsible Party,

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/5/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Shoemaker, Mike < Mike, Shoemaker@dvn.com>

Sent: Friday, February 2, 2018 4:57 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)

Cc: Fulks, Brett; Fisher, Sheila

Subject: Cotton Draw 10 Fed Com 2H_181bbl produced water_1.21.18

Attachments: Cotton Draw 10 Fed Com 2H_181bbls produced water_Initial C-141_1.21.18.doc; Cotton

Draw 10 Fed Com 2H_181bbls produced water_GIS Image_1.21.18.pdf

Good Afternoon,

Attached please find the Initial C-141 and GIS Image for the 181 bbl produced water release at the Cotton Draw 10 Federal Com 2H on 1.21.18.

If you have any questions please feel free to contact me.

Thank you,

Mike Shoemaker EHS Representative

Devon Energy Corporation

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Weaver, Crystal, EMNRD

From: Shoemaker, Mike < Mike. Shoemaker@dvn.com>

Sent: Monday, January 22, 2018 1:11 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)

Cc: Fulks, Brett

Subject: RE: Cotton Draw Fed Com 2H (API #30-015-39230)

I apologize I did not get the full well name on the description it is the Cotton Draw 10 Federal Com 2H (API #30-015-39230).

Thanks,

Mike Shoemaker EHS Representative

Devon Energy Corporation

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



From: Shoemaker, Mike

Sent: Monday, January 22, 2018 1:01 PM

To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>;

Shelly Tucker (stucker@blm.gov) <stucker@blm.gov>

Cc: Fulks, Brett (Brett.Fulks@dvn.com) <Brett.Fulks@dvn.com>

Subject: Cotton Draw Fed Com 2H (API #30-015-39230)

Good Afternoon,

Devon had the following release occur at 4:30 PM MST on 01/21/18. The incident is described below.

- 1. Cotton Draw Fed Com 2H (API #30-015-39230)
 - a. Water tank ran over causing an approximate 181 bbl release. The majority of the release occurred inside the lined SPCC secondary containment ring however there was a 0.10 bbl overspray that did go outside the containment area. All fluid that was released into the lined secondary containment was recovered.

A C-141 will be prepared and submitted with GPS coordinates of the area affected.

Thanks,

Mike Shoemaker EHS Representative

Devon Energy Corporation

Appendix B: Water Well Data



2904 W 2nd St. Roswell, NM 88201 Voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

04/1/2022

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4593 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4593 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Gran Middle

ASU DE 40 % 4 2022 742:01



NO	OSE POD NO. POD 1 (TW		0.)		WELL TAG ID NO.	•		OSE FI	LE NO(8	5).				
OCATI	WELL OWNER Devon Ener	-	9)						е (ОРТІС 48-183					
1. GENERAL AND WELL LOCATION	WELL OWNER 6488 7 Rive							CITY Artesi	ia			STAT NM	E 88210	ZIP
Ę	WELL		D	EGREES	MINUTES	SECON	(DS							
LA	LOCATION	LA	TITUDE	32	10	2.9	7 _N	* ACC	URACY	REQUIRED:	ONE TENT	TH OF A	A SECOND	
ERA	(FROM GPS) LO	NGITUDE	103	45	36.	48 W	* DAT	UM REC	UIRED: WGS	S 84			
GEN	DESCRIPTION	N RELATI	NG WELL LOCATION T	O STREET ADDRE	ESS AND COMMON	I LANDM.	ARKS – PL	SS (SECT	ION, TO	WNSHJIP, RA	NGE) WH	ERE AV	/AILABLE	
1.	SW L4 Sec	34 T248	S R31E, NMPM											
	LICENSE NO.		NAME OF LICENSEI										COMPANY	
	1249	9			ckie D. Atkins								ng Associates, l	
	03/09/2		03/10/2022		PRLETED WELL (F ary well casing	· I	BORE HO	±55	H (FT)	DEPTH WA	ATER FIRS		OUNTERED (FT) /a	
Z	COMPLETED WELL IS: ARTESIAN V DRY HOLE SHALLOW (UNCONFINED) IN COMPLETED WELL dry						DATE STATIC 03/10/22,							
Ę	DRILLING FL	UID:	☐ AIR	MUD	ADDITTV	ES - SPEC	IFY:		1 = -					
2. DRILLING & CASING INFORMATION	DRILLING ME	THOD:	ROTARY HAM	MER CABLI	ETOOL 📝 OTH	ER – SPEC	IFY:]	Hollow	Stem A	Auger	CHECK INSTAL	HERE I	IF PITLESS ADA	PTER IS
<u>[</u>	DEPTH (feet hol)	T	CASING N	ATERIAL ANI	D/OR				0.4.07				
E S	FROM	TO	BORE HOLE DIAM		GRADE			ASING NECTIO)N	CASI INSIDE I			SING WALL HICKNESS	SLOT SIZE
NIS			(inches)		(include each casing string, and note sections of screen)			TYPE pling dian		(inch			(inches)	(inches)
Č	0	55	±6.5		Boring		(444 004)							
NG.														
TT														
M														
4										1 12.8		100	30 V 25 J 88W 27 S S	3
										in when	Uni Mi	N 150 A	5327 AM 700	
												_		
			+											
										-				
	DEPTH (:	feet bgl)	BORE HOLE	LIS	T ANNULAR SI	EAL MA	TERIAL .	AND		AM	OUNT		метно	D OF
Ψ	FROM	то	DIAM. (inches)	GRAV	EL PACK SIZE	-RANGE	BY INT	ERVAL		(cub	oic feet)		PLACEN	MENT
TER														
MA														
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Ž									_			_		
AN												\dashv		
સં	+		-									\dashv		
													- SECO •	0.0000
	<u>LOSE INTERN</u> E NO.	NAL USE	3		POD NO)		—т	WR-20		ECORD (z LOC	(Version 01/2	8/2022)
_	CATION				TODIK			WELL					PAGE	1 OF 2

	DEPTH (feet bgl)	MIN OVA TOO	COLOR AN	ND TYPE OF MATERIAL E	NCOUN	TERED -		WA?	TER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)		ER-BEARING CAVITIES Opplemental sheets to fully d			S	BEAR (YES		WATER- BEARING ZONES (gpm)
	0	4	4	Caliche, wi	th medium to fine grained sa	nd, white	and Red		Y	✓ N	
	4	24	20	Sand, medium/ f	ine grained, poorly graded, v	rith calicl	ne gravel, Tan		Y	√ N	
	24	55	31	Sand, mediu	m/ fine grained, poorly grade	d, Reddi	sh Brown		Y	√ N	
									Y	N	
									Y	N	
13									Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
OF									Y	N	
503									Y	N	
31									Y	N	
07									Y	N	
GEO									Y	N	
RO									Y	N	
HAT									Y	N	
4									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:				AL ESTIM		
	PUMI	P	IR LIFT _	BAILER O	THER – SPECIFY:			WEI	L YIELD	(gpm):	0.00
NO	WELL TES	TEST :	RESULTS - ATT I TIME, END TI	ACH A COPY OF DAT ME, AND A TABLE S	TA COLLECTED DURING HOWING DISCHARGE AN	WELL T D DRAV	ESTING, INC VDOWN OVI	LUDE ER TH	NG DISC E TESTIN	HARGE I G PERIC	METHOD, DD.
VISION	MISCELLA	NEOUS INF	ORMATION: To	emnorary well materi	al removed and soil borin	g backfi	lled using dr	ill cut	ings fron	n total de	enth to ten feet
TEST; RIG SUPER			be	low ground surface(l	ogs), then hydrated bentor	ite chip	s ten feet bgs	to su	rface.		7
G St											
ľ, Rľ											
rest	PRINT NAM	Æ(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	OVIDED ONSITE SUPERVI	SION OI	WELL CON	STRU	CTION O	THER TH	IAN LICENSEE:
ν.	Shane Eldric	dge, Camer	on Pruitt								
63	THE UNDER	RSIGNED H	IEREBY CERTIF	TES THAT, TO THE I	BEST OF HIS OR HER KNO ND THAT HE OR SHE WIL)WLED(E AND BEL	IEF, T	HE FORE	GOING I	S A TRUE AND
SIGNATURE					IPLETION OF WELL DRIL		ino well i	-LCOP	₩IIH	THE 917	YYZZANONG GIL
LAN:	Jack A	tkins		_					011.45	R. 4. 19172	2#2.02
SIG.	7			Ja	ckie D. Atkins				03/31	/2022	
6.	•	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME	-81				DATE	
PO!	OGE PUTER	NIAT TIME					WD 20 WE	II DE	CODD &	1 OG (V)-	rsion 01/28/2022)
	R OSE INTERI E NO.	NAL USE			POD NO.		TRN NO.	LL KE	CURD &	LOG (VE	1310II V1/20/2U22)
-	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

State]	Engineer Well Number: C-4593-PC	DD1					
Well	owner: Devon Energy			Phon	e No.: _575	i-748-1838	
Mailir	ng address: 6488 7 Rivers Hwy						
City:	Artesia	State	e:	New Mexico)	_ Zip code:	88210
<u>II. W</u>	VELL PLUGGING INFORMATION	ON:					
1)	Name of well drilling company t	hat plugged well:	Jackie D.	Atkins (Atkins E	Engineering	Associates II	nc.)
2)	New Mexico Well Driller Licens						
3)	Well plugging activities were sugshane Eldridge, Cameron Pruitt		llowing wel	l driller(s)/rig s	upervisor(s):	
4)	Date well plugging began: 3/15	5/2022	Date	well plugging	concluded:	3/15/2022	
5)		ide: 32 itude: 103	deg, deg,	10 min, 45 min,	2.97 36.48	_ sec _ sec, WGS	84
6)	Depth of well confirmed at initia by the following manner: weight	tion of plugging a	s:55	ft below gro	ound level (bgl),	
7)	Static water level measured at in	itiation of pluggin	g:n/a	ft bgl			
8)	Date well plugging plan of opera	itions was approve	d by the St	ate Engineer: _	2/7/2022	_	
9)	Were all plugging activities cons differences between the approve	istent with an app d plugging plan ar	roved plugg ad the well	ging plan? as it was plugge	Yes ed (attach ac	_ If not, p	lease describ es as needed):
							200 2 sik0 (00
					Court feet for	. 2.	has befolen skin i 1995 fan 1994 sûne.

Version: September 8, 2009 Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15.7gallons	15 gallons	Augers	
-	10'-55' Drill Cuttings	Approx. 65 gallons	65 gallons	Boring	
) <u></u>					
_					
_			3Y AND OBTAIN 1805 = gallons		1999, 4:2022 e×2:02

cubic feet x 7.4805 = gallons cubic yards x 201.97 = gallons III. SIGNATURE:

I, Jackie D. Atkins , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

3/31/2022

Signature of Well Driller

3/31/2022 Date

Version: September 8, 2009 Page 2 of 2

WR-20 Well Record and Log_2022-forsign

Final Audit Report 2022-03-3

Created: 2022-03-31

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAArF94EavZCTfALpRuFVOVGnZ-Yc0wb7Yi

"WR-20 Well Record and Log_2022-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com) 2022-03-31 - 7:57:39 PM GMT- IP address: 69.21.254.158

Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-03-31 - 7:58:16 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com) 2022-03-31 - 9:14:45 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-03-31 - 9:27:44 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed. 2022-03-31 - 9:27:44 PM GMT

1399 007 APR 4 2022 PX2102



Appendix C: Laboratory Analytical Reports

Report to:
Austin Weyant







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Atkins Engineering Associates Inc.

Project Name: COTTON DRAW10 #2

Work Order: E202049

Job Number: 20071-0001

Received: 2/9/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/16/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 2/16/22

Austin Weyant 2904 W. 2nd

Roswell, NM 88201

Project Name: COTTON DRAW10 #2

Workorder: E202049

Date Received: 2/9/2022 10:30:00AM

Austin Weyant,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/9/2022 10:30:00AM, under the Project Name: COTTON DRAW10 #2.

The analytical test results summarized in this report with the Project Name: COTTON DRAW10 #2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Technical Representative

Rayny Hagan

West Texas Midland/Odessa Area

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	Reported:
2904 W. 2nd	Project Number:	20071-0001	Reporteu:
Roswell NM, 88201	Project Manager:	Austin Weyant	02/16/22 16:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-1	E202049-01A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
SW2-1	E202049-02A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
L1-1	E202049-03A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
L1-2	E202049-04A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
SW4-1	E202049-05A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
L2-1	E202049-06A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
L2-2	E202049-07A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
SW2	E202049-08A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
SW3	E202049-09A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.
SW5-1	E202049-10A	Soil	01/31/22	02/09/22	Glass Jar, 4 oz.



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

SW1-1 E202049-01

	1202047 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2207046
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0500	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
	98.2 %	70-130	02/10/22	02/11/22	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2207046
ND	20.0	1	02/10/22	02/11/22	
	108 %	70-130	02/10/22	02/11/22	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2208008
ND	25.0	1	02/14/22	02/15/22	
ND	50.0	1	02/14/22	02/15/22	
	106 %	50-200	02/14/22	02/15/22	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2207056
67.6	20.0	1	02/11/22	02/12/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 108 % mg/kg MD 25.0 ND 50.0 106 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 98.2 % 70-130 mg/kg mg/kg Anal ND 20.0 1 108 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 106 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 02/10/22 ND 0.0250 1 02/10/22 ND 0.0250 1 02/10/22 ND 0.0500 1 02/10/22 ND 0.0250 1 02/10/22 ND 0.0250 1 02/10/22 mg/kg mg/kg Analyst: IY ND 20.0 1 02/10/22 mg/kg mg/kg Analyst: JL ND 25.0 1 02/10/22 ND 25.0 1 02/14/22 ND 50.0 1 02/14/22 ND 50.0 1 02/14/22 mg/kg mg/kg Analyst: RAS	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 ND 0.0500 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 mg/kg mg/kg Analyst: IY ND 20.0 1 02/10/22 02/11/22 mg/kg mg/kg Analyst: IV 02/10/22 02/11/22 mg/kg mg/kg Analyst: JL 02/10/22 02/11/22 ND 25.0 1 02/10/22 02/15/22 ND 50.0 1 02/14/22 02/15/22 ND 50.0 1 02/14/22 02/15/22 ND 50.0 1 02/14/



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

SW2-1

E202049-02

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: IY		Batch: 2208021
ND	0.0250	1	02/15/22	02/15/22	H2
ND	0.0250	1	02/15/22	02/15/22	H2
ND	0.0250	1	02/15/22	02/15/22	H2
ND	0.0250	1	02/15/22	02/15/22	H2
ND	0.0500	1	02/15/22	02/15/22	H2
ND	0.0250	1	02/15/22	02/15/22	H2
	95.2 %	70-130	02/15/22	02/15/22	H2
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2208021
ND	20.0	1	02/15/22	02/15/22	H2
	119 %	70-130	02/15/22	02/15/22	H2
mg/kg	mg/kg	Ana	lyst: JL		Batch: 2208029
ND	25.0	1	02/15/22	02/16/22	H2
ND	50.0	1	02/15/22	02/16/22	H2
	99.3 %	50-200	02/15/22	02/16/22	
mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2208022
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 119 % mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 25.2 % 70-130 mg/kg mg/kg Ana ND 20.0 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 02/15/22 ND 0.0250 1 02/15/22 ND 0.0250 1 02/15/22 ND 0.0250 1 02/15/22 ND 0.0500 1 02/15/22 ND 0.0250 1 02/15/22 mg/kg mg/kg Analyst: IY ND 20.0 1 02/15/22 mg/kg mg/kg Analyst: JL ND 25.0 1 02/15/22 ND 25.0 1 02/15/22 ND 50.0 1 02/15/22	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 02/15/22 02/15/22 ND 0.0250 1 02/15/22 02/15/22 ND 0.0250 1 02/15/22 02/15/22 ND 0.0500 1 02/15/22 02/15/22 ND 0.0250 1 02/15/22 02/15/22 ND 0.0250 1 02/15/22 02/15/22 mg/kg mg/kg Analyst: IY ND 20.0 1 02/15/22 02/15/22 mg/kg mg/kg Analyst: IY 02/15/22 02/15/22 Mg/kg mg/kg Analyst: IY 02/15/22 02/15/22 ND 20.0 1 02/15/22 02/15/22 Mg/kg Mg/kg Analyst: JL ND 25.0 1 02/15/22 02/16/22 ND 50.0 1 02/15/22 02/16/22



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

L1-1

E202049-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2207046
Benzene	ND	0.0250	1	02/10/22	02/11/22	
Ethylbenzene	ND	0.0250	1	02/10/22	02/11/22	
Toluene	ND	0.0250	1	02/10/22	02/11/22	
o-Xylene	ND	0.0250	1	02/10/22	02/11/22	
p,m-Xylene	ND	0.0500	1	02/10/22	02/11/22	
Total Xylenes	ND	0.0250	1	02/10/22	02/11/22	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2207046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/22	02/11/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2208008
Diesel Range Organics (C10-C28)	1520	250	10	02/14/22	02/16/22	
Oil Range Organics (C28-C36)	1060	500	10	02/14/22	02/16/22	
Surrogate: n-Nonane		123 %	50-200	02/14/22	02/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2207056
· · · · · · · · · · · · · · · · · · ·	157	20.0		02/11/22	02/12/22	·



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

L1-2 E202049-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2207046
Benzene	ND	0.0250	1	02/10/22	02/11/22	
Ethylbenzene	ND	0.0250	1	02/10/22	02/11/22	
Toluene	ND	0.0250	1	02/10/22	02/11/22	
o-Xylene	ND	0.0250	1	02/10/22	02/11/22	
p,m-Xylene	ND	0.0500	1	02/10/22	02/11/22	
Total Xylenes	ND	0.0250	1	02/10/22	02/11/22	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2207046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/22	02/11/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2208008
Diesel Range Organics (C10-C28)	1610	25.0	1	02/14/22	02/15/22	
Oil Range Organics (C28-C36)	1090	50.0	1	02/14/22	02/15/22	
Surrogate: n-Nonane		145 %	50-200	02/14/22	02/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2207056
					02/12/22	



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

SW4-1

E202049-05

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		lyst: IY		Batch: 2207046
Benzene	ND	0.0250	1	02/10/22	02/11/22	
Ethylbenzene	ND	0.0250	1	02/10/22	02/11/22	
Toluene	ND	0.0250	1	02/10/22	02/11/22	
o-Xylene	ND	0.0250	1	02/10/22	02/11/22	
p,m-Xylene	ND	0.0500	1	02/10/22	02/11/22	
Total Xylenes	ND	0.0250	1	02/10/22	02/11/22	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2207046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/22	02/11/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	llyst: JL		Batch: 2208008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/14/22	02/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/14/22	02/15/22	
Surrogate: n-Nonane		111 %	50-200	02/14/22	02/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2207056
Chloride	101	20.0	1	02/11/22	02/12/22	



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

L2-1 E202049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2207046
Benzene	ND	0.0250	1	02/10/22	02/11/22	
Ethylbenzene	ND	0.0250	1	02/10/22	02/11/22	
Toluene	ND	0.0250	1	02/10/22	02/11/22	
o-Xylene	ND	0.0250	1	02/10/22	02/11/22	
p,m-Xylene	ND	0.0500	1	02/10/22	02/11/22	
Total Xylenes	ND	0.0250	1	02/10/22	02/11/22	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2207046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/22	02/11/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2208008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/14/22	02/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/14/22	02/15/22	
Surrogate: n-Nonane		108 %	50-200	02/14/22	02/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2207056
Chloride	37.1	20.0	1	02/11/22	02/12/22	

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

L2-2 E202049-07

	L202047 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2207046
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
ND	0.0500	1	02/10/22	02/11/22	
ND	0.0250	1	02/10/22	02/11/22	
	99.5 %	70-130	02/10/22	02/11/22	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2207046
ND	20.0	1	02/10/22	02/11/22	
	110 %	70-130	02/10/22	02/11/22	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2208008
ND	25.0	1	02/14/22	02/15/22	
ND	50.0	1	02/14/22	02/15/22	
	107 %	50-200	02/14/22	02/15/22	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2207056
87.2	20.0	1	02/11/22	02/12/22	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MB/kg mg/kg ND 25.0 ND 50.0 107 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 99.5 % 70-130 mg/kg mg/kg Anal ND 20.0 1 110 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 107 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 02/10/22 ND 0.0250 1 02/10/22 ND 0.0250 1 02/10/22 ND 0.0500 1 02/10/22 ND 0.0500 1 02/10/22 ND 0.0250 1 02/10/22 mg/kg mg/kg Analyst: IY ND 20.0 1 02/10/22 mg/kg mg/kg Analyst: JL ND 25.0 1 02/10/22 ND 25.0 1 02/14/22 ND 50.0 1 02/14/22 ND 50.0 1 02/14/22 Mg/kg mg/kg Analyst: RAS	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 ND 0.0500 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 ND 0.0250 1 02/10/22 02/11/22 mg/kg mg/kg Analyst: IY ND 20.0 1 02/10/22 02/11/22 mg/kg mg/kg Analyst: IV 02/10/22 02/11/22 mg/kg mg/kg Analyst: JL 02/10/22 02/11/22 ND 25.0 1 02/10/22 02/15/22 ND 50.0 1 02/14/22 02/15/22 ND 50.0 1 02/14/22 02/15/22 ND 50.0 1 02/14/



Sample Data

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

SW2

E202049-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2207046
Benzene	ND	0.0250	1	02/10/22	02/11/22	
Ethylbenzene	ND	0.0250	1	02/10/22	02/11/22	
Toluene	ND	0.0250	1	02/10/22	02/11/22	
o-Xylene	ND	0.0250	1	02/10/22	02/11/22	
p,m-Xylene	ND	0.0500	1	02/10/22	02/11/22	
Total Xylenes	ND	0.0250	1	02/10/22	02/11/22	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: IY		Batch: 2207046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/22	02/11/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2208008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/14/22	02/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/14/22	02/15/22	
Surrogate: n-Nonane		107 %	50-200	02/14/22	02/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2207056
		·			02/12/22	·



Anions by EPA 300.0/9056A

Chloride

Sample Data

Atkins Engineering Associates Inc.	Project Name:	Thistle, Cotton Draw3807 & 3398	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 5:45:08PM

L1-4 #2

		E202031-10					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Wet Chemistry by 9050A/2510B	uS/cm	uS/cm		Analyst	: Л		Batch: 2207016
Specific Conductance (@ 25 C)	146	10.0		1	02/08/22	02/08/22	
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2208017
Benzene	ND	0.0250		1	02/14/22	02/14/22	
Ethylbenzene	ND	0.0250		1	02/14/22	02/14/22	
Toluene	ND	0.0250		1	02/14/22	02/14/22	
o-Xylene	ND	0.0250		1	02/14/22	02/14/22	
p,m-Xylene	ND	0.0500		1	02/14/22	02/14/22	
Total Xylenes	ND	0.0250		1	02/14/22	02/14/22	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130		02/14/22	02/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2208017
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/14/22	02/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130		02/14/22	02/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2208016
Diesel Range Organics (C10-C28)	ND	25.0		1	02/14/22	02/14/22	
Oil Range Organics (C28-C36)	ND	50.0		1	02/14/22	02/14/22	
Surrogate: n-Nonane		98.2 %	50-200		02/14/22	02/14/22	

mg/kg

20.0

mg/kg

ND

Analyst: RAS

02/14/22

02/14/22



Batch: 2208019

Sample Data

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

SW3

E202049-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2208021
Benzene	ND	0.0250	1	02/15/22	02/15/22	H2
Ethylbenzene	ND	0.0250	1	02/15/22	02/15/22	H2
Toluene	ND	0.0250	1	02/15/22	02/15/22	H2
o-Xylene	ND	0.0250	1	02/15/22	02/15/22	H2
p,m-Xylene	ND	0.0500	1	02/15/22	02/15/22	H2
Total Xylenes	ND	0.0250	1	02/15/22	02/15/22	H2
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	02/15/22	02/15/22	H2
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2208021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/15/22	H2
Surrogate: 1-Chloro-4-fluorobenzene-FID		119 %	70-130	02/15/22	02/15/22	H2
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2208029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/22	02/16/22	H2
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/22	02/16/22	H2
Surrogate: n-Nonane		98.0 %	50-200	02/15/22	02/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2208022
Chloride	ND	20.0	1	02/14/22	02/16/22	



Sample Data

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

SW5-1

E202049-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2207046
Benzene	ND	0.0250	1	02/10/22	02/11/22	
Ethylbenzene	ND	0.0250	1	02/10/22	02/11/22	
Toluene	ND	0.0250	1	02/10/22	02/11/22	
o-Xylene	ND	0.0250	1	02/10/22	02/11/22	
p,m-Xylene	ND	0.0500	1	02/10/22	02/11/22	
Total Xylenes	ND	0.0250	1	02/10/22	02/11/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2207046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/22	02/11/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	02/10/22	02/11/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2208008
Diesel Range Organics (C10-C28)	4760	250	10	02/14/22	02/16/22	
Oil Range Organics (C28-C36)	2100	500	10	02/14/22	02/16/22	
Surrogate: n-Nonane		125 %	50-200	02/14/22	02/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2207056
· · · · · · · · · · · · · · · · · · ·	371	20.0		02/11/22	02/12/22	· · · · · · · · · · · · · · · · · · ·



		QC bi	4111111	ary Data	•				
Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201		Project Name: Project Number: Project Manager:	20	OTTON DRAV 0071-0001 ustin Weyant	W10 #2			2	Reported: 2/16/2022 4:36:04PM
Roswell INIVI, 88201		Project Manager:	A	usun weyani					7/10/2022 4.30.04FWI
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2207046-BLK1)							Prepared: 02	2/10/22 An	alyzed: 02/11/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			
LCS (2207046-BS1)							Prepared: 02	2/10/22 An	alyzed: 02/11/22
Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.79	0.0250	5.00		95.8	70-130			
Toluene	4.99	0.0250	5.00		99.9	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			
Matrix Spike (2207046-MS1)				Source: 1	E202040-	02	Prepared: 02	2/10/22 An	alyzed: 02/11/22
Benzene	4.59	0.0250	5.00	ND	91.9	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.92	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.2	63-131			
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			
Matrix Spike Dup (2207046-MSD1)				Source: 1	E202040-	02	Prepared: 02	2/10/22 An	alyzed: 02/11/22
Benzene	4.71	0.0250	5.00	ND	94.2	54-133	2.55	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.9	61-133	2.19	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	2.34	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	2.30	20	
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131	2.16	20	
p,iii-Ayiciic	7.05	0.0500	10.0	T-LD	76.5	05-151	2.10	20	



70-130

Surrogate: 4-Bromochlorobenzene-PID

7.53

		Q C D		ary Data					
Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201		Project Name: Project Number: Project Manager:	2	OTTON DRA 0071-0001 .ustin Weyant	W10 #2			2/1	Reported: 6/2022 4:36:04PM
		Volatile O	rganics	by EPA 802	21B				Analyst: IY
									711141750. 11
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2208021-BLK1)							Prepared: 0	2/14/22 Anal	yzed: 02/15/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			
LCS (2208021-BS1)							Prepared: 0	2/14/22 Anal	yzed: 02/15/22
Benzene	4.16	0.0250	5.00		83.2	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.1	70-130			
Toluene	4.31	0.0250	5.00		86.2	70-130			
p-Xylene	4.29	0.0250	5.00		85.9	70-130			
o,m-Xylene	8.55	0.0500	10.0		85.5	70-130			
Total Xylenes	12.8	0.0250	15.0		85.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.8	70-130			
Matrix Spike (2208021-MS1)				Source:	E202078-	03	Prepared: 0	2/14/22 Anal	yzed: 02/15/22
Benzene	4.28	0.0250	5.00	ND	85.5	54-133			
Ethylbenzene	4.31	0.0250	5.00	ND	86.1	61-133			
Toluene	4.42	0.0250	5.00	ND	88.4	61-130			
p-Xylene	4.39	0.0250	5.00	ND	87.9	63-131			
o,m-Xylene	8.75	0.0500	10.0	ND	87.5	63-131			
Total Xylenes	13.1	0.0250	15.0	ND	87.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			
Matrix Spike Dup (2208021-MSD1)				Source:	E202078-	03	Prepared: 0	2/14/22 Anal	yzed: 02/15/22
Benzene	4.36	0.0250	5.00	ND	87.3	54-133	2.02	20	
Ethylbenzene	4.41	0.0250	5.00	ND	88.2	61-133	2.34	20	
Toluene	4.52	0.0250	5.00	ND	90.3	61-130	2.12	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	2.38	20	
p,m-Xylene	8.97	0.0500	10.0	ND	89.7	63-131	2.47	20	
Total Xylenes	13.5	0.0250	15.0	ND	89.8	63-131	2.44	20	



70-130

Surrogate: 4-Bromochlorobenzene-PID

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	Reported:
2904 W. 2nd	Project Number:	20071-0001	•
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

Roswell NM, 88201		Project Manage	r: Au	stin Weyant				2/	16/2022 4:36:04PN	
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: IY	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes	
Blank (2207046-BLK1)							Prepared: 02	2/10/22 Ana	lyzed: 02/11/22	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.38		8.00		117	70-130				
LCS (2207046-BS2)							Prepared: 02	2/10/22 Ana	lyzed: 02/11/22	
Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.46		8.00		118	70-130				
Matrix Spike (2207046-MS2)				Source:	E202040-	02	Prepared: 02	2/10/22 Ana	lyzed: 02/11/22	
Gasoline Range Organics (C6-C10)	56.5	20.0	50.0	ND	113	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.42		8.00		118	70-130				
Matrix Spike Dup (2207046-MSD2)				Source:	E202040-	02	Prepared: 02	2/10/22 Ana	lyzed: 02/11/22	
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	1.48	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.43		8.00		118	70-130				



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

Roswell NM, 88201		Project Manage	r: Aı	ıstin Weyant				2/16	5/2022 4:36:04PM			
Nonhalogenated Organics by EPA 8015D - GRO Analyst: IY												
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes			
D. J. (220024 D. V.)												
Blank (2208021-BLK1)							Prepared: 0	2/14/22 Analy	zed: 02/15/22			
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.91		8.00		111	70-130						
LCS (2208021-BS2)							Prepared: 02	2/14/22 Analy	zed: 02/15/22			
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0		104	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130						
Matrix Spike (2208021-MS2)				Source:	E202078-	03	Prepared: 02	2/14/22 Analy	zed: 02/15/22			
Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130						
Matrix Spike Dup (2208021-MSD2)				Source:	E202078-	03	Prepared: 02	2/14/22 Analy	zed: 02/15/22			
Gasoline Range Organics (C6-C10)	56.0	20.0	50.0	ND	112	70-130	0.664	20				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.97		8.00		112	70-130						

Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	Reported:
2904 W. 2nd	Project Number:	20071-0001	•
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

Roswell NM, 88201		Project Manage	r: Au	stin Weyant					2/16/2022 4:36:04PN			
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2208008-BLK1)							Prepared: 0	2/14/22 A1	nalyzed: 02/15/22			
tiesel Range Organics (C10-C28)	ND	25.0										
vil Range Organics (C28-C36)	ND	50.0										
urrogate: n-Nonane	58.8		50.0		118	50-200						
CS (2208008-BS1)							Prepared: 0	2/14/22 At	nalyzed: 02/15/22			
riesel Range Organics (C10-C28)	542	25.0	500		108	38-132						
urrogate: n-Nonane	47.3		50.0		94.5	50-200						
Matrix Spike (2208008-MS1)				Source:	E202049-	06	Prepared: 0	2/14/22 Aı	nalyzed: 02/15/22			
riesel Range Organics (C10-C28)	542	25.0	500	ND	108	38-132						
urrogate: n-Nonane	46.0		50.0		92.0	50-200						
Matrix Spike Dup (2208008-MSD1)				Source:	E202049-	06	Prepared: 0	2/14/22 A1	nalyzed: 02/15/22			
viesel Range Organics (C10-C28)	532	25.0	500	ND	106	38-132	1.98	20				
urrogate: n-Nonane	45.4		50.0		90.9	50-200						



Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

Roswell NM, 88201		Project Manage	r: Aı	ıstin Weyant				2/	6/2022 4:36:04PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2208029-BLK1)							Prepared: 0	2/15/22 Ana	yzed: 02/15/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.2		50.0		102	50-200			
LCS (2208029-BS1)							Prepared: 0	2/15/22 Ana	yzed: 02/15/22
Diesel Range Organics (C10-C28)	544	25.0	500		109	38-132			
Surrogate: n-Nonane	49.6		50.0		99.1	50-200			
Matrix Spike (2208029-MS1)				Source:	E202078-	08	Prepared: 0	2/15/22 Ana	yzed: 02/15/22
Diesel Range Organics (C10-C28)	653	25.0	500	ND	131	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			
Matrix Spike Dup (2208029-MSD1)				Source:	E202078-	08	Prepared: 0	2/15/22 Anal	yzed: 02/15/22
Diesel Range Organics (C10-C28)	665	25.0	500	ND	133	38-132	1.87	20	M2
Surrogate: n-Nonane	61.2		50.0		122	50-200			



2904 W. 2nd	Project Number:	20071-0001	2/16/2022 4:36:04PM
Roswell NM, 88201	Project Manager:	Austin Weyant	
Roswell NM, 88201	Project Manager:	Austin Weyant	2/16/2022 4:36:04PM

Anions by EPA 300.0/9056A Analys											
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes		
	9.45				70	70	70	70	rvotes		
Blank (2207056-BLK1)					2/11/22 Anal	yzed: 02/11/22					
Chloride	ND	20.0									
LCS (2207056-BS1)							Prepared: 02	2/11/22 Anal	yzed: 02/12/22		
Chloride	254	20.0	250		101	90-110					
Matrix Spike (2207056-MS1)				Source:	E202039-	01	Prepared: 02	2/11/22 Anal	yzed: 02/12/22		
Chloride	251	20.0	250	ND	100	80-120					
Matrix Spike Dup (2207056-MSD1)				Source:	E202039-	01	Prepared: 02	2/11/22 Anal	yzed: 02/12/22		
Chloride	253	20.0	250	ND	101	80-120	0.952	20			



Atkins Engineering Associates Inc. 2904 W. 2nd		Project Name: Project Number:		OTTON DRA 0071-0001	W10 #2				Reported:
Roswell NM, 88201		Project Manager:	A	ustin Weyant					2/16/2022 4:36:04PM
		Anions l	by EPA	300.0/9056	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2208022-BLK1)							Prepared: 0	2/14/22	Analyzed: 02/15/22
Chloride	ND	20.0							
LCS (2208022-BS1)							Prepared: 0	2/14/22	Analyzed: 02/15/22
Chloride	276	20.0	250		110	90-110			
Matrix Spike (2208022-MS1)				Source:	E202078-0)1	Prepared: 0	2/14/22	Analyzed: 02/15/22
Chloride	358	20.0	250	88.2	108	80-120			
Matrix Spike Dup (2208022-MSD1)				Source:	E202078-0)1	Prepared: 0	2/14/22	Analyzed: 02/15/22
Chloride	334	20.0	250	88.2	98.2	80-120	7.09	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Atkins Engineering Associates Inc.	Project Name:	COTTON DRAW10 #2	
ı	2904 W. 2nd	Project Number:	20071-0001	Reported:
ı	Roswell NM, 88201	Project Manager:	Austin Weyant	02/16/22 16:36

H2 Sample was receive with an insufficient amount of time to prepare and analyze the sample within the method prescribed holding time.

The analysis was performed as quickly as possible per client request.

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



lient: Atkins Eng	19-4				RUSH?	io — L	ab Use Only	Analysis and Method							lab C	
Project: COTTON DRAW10	0 #2			45, 73	1d		Lab WO#	Van						3		Correct Cont/Dreny (e) V/N
ampler: JAW					3d	PEa	102049					41			_	101
Phone: 575 626 3993		And the control				The second second	ob Number	015		1.7	0.0				Lab Number	0
mail(s):	austin@a	tkinseng.com				200	1000-170	by 8	122	8,1	y 30				Nu Nu	1
Project Manager:					Pag	- CONCORDED	2	ORO	3y 8	y 41	de b	1			Lat	1
Sample	ID		Sample Date	Sample Time	Matrix		ontainers TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418,1	Chloride by 300.0				h.	
SW1-1			1/31/22	1020	S			x	x		x				1	
SW2-1			1/31/22	1022	s			x	x		X				2	
L1-1			1/31/22	1019	S			х	х		Х				3	
L1-2			1/31/22	1024	S		1	х	х		x				4	
SW4-1			1/31/22	1026	S			×	x		×				5	
L2-1			1/31/22	1030	S			x	x		x				6	
L2-2			1/31/22	1035	s	227		x	х		х				7	
SW2			1/31/22	1040	s			x	x		х				8	N. Carlot
SW3	-10	II.	1/31/22	1042	s			x	х		х				9	
SW5-1			1/31/22	1021	S			x	x		х				10	
Relinquished by: (Signature)	Date	Time	Reserved	by: (Signa	ature)	Date	Time **	Rece	ived	on Ic	and the second	Use O	nly			
Relinquished by: (Signature)	Date	Time	Received	by: (Signa	ature) tue	2/9/22	Time T1 /0:30 AV	'G Te	mp.º	c_4	T2			Т	3	
Sample Matrix: S - Soil, Sd - Solid, Sg - Slu				Mile			Container Type: [ic, ag -	amber	glass,	v - VOA	
**Samples requiring thermal preservatio	n must be receiv	ed on ice the day	they are sampled o					C on su	bsequ	ent day	5.					
Sample(s) dropped off after hours t	o a secure drop	off area.		Chain o	of Custod	Notes/Bill	ling info:									
-								27.0								



5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs + 65 Mercado Street, Suite 115, Durango, CO 81301



Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	02/09/22 10	0:30	Work Order ID:	E202049
Phone:	(575) 626-3993	Date Logged In:	02/09/22 15	:17	Logged In By:	Caitlin Christian
Email:	austin@atkinseng.com	Due Date:	02/15/22 17	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location mat	ch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: <u>U</u>	<u>JPS</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No			
	Il samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		Yes	,	Comment	s/Resolution
	Urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		No signature date and ti	me provided on
Sample C	· •		103		COC, No ORO analysis	•
	cample cooler received?		Yes		· · · · · · · · · · · · · · · · · · ·	orriojeet
	was cooler received in good condition?		Yes		Manager on COC.	
•	e sample(s) received intact, i.e., not broken?				The 2 missing samples	were received out
			Yes		of HT.	
	custody/security seals present?		No			
•	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling /isible ice, record the temperature. Actual sample	e received w/i 15	Yes			
		temperature. 4	<u>C</u>			
Sample C	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers')	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab		iers conceteu.	103			
	field sample labels filled out with the minimum info	rmation:				
	ample ID?	imation.	Yes			
	ate/Time Collected?		No	ı		
C	ollectors name?		No			
Sample P	<u>reservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	imple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved m	netals?	No			
	se Sample Matrix					
26. Does t	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA			
Subcontr	act Laboratory					
28. Are sa	imples required to get sent to a subcontract laborator	ry?	No			
	subcontract laboratory specified by the client and if	-	NA S	Subcontract Lab	o: na	
Client In	astruction_					

Signature of client authorizing changes to the COC or sample disposition.

lient: Atkins Eng			RUSH?	Lab Use Only	la constant		: Ana	alysis	and	Meth	od ;		Ti.	ab Only
roject: COTTON DRAW10 #2			1d	Lab WO#	M									N. A.
ampler: JAW			3d	pE202049	10					.45				(3)
hone: 575 626 3993				Job Number	8015		10.1	0.00				e .		Prs.
mail(s): austin@atkinseng.c	om			20071-0001	by	3021	181	by 30					1	Cont/Prsrv
roject Manager:			Pag	e 1 of 2/	DRC	by 8	39 4:	ide	1				1	3 8
Sample ID	Sample Date	Sample Time	Matrix	QTY - Vol/TYPE/Preservative	GRO/DRO by £015	втех ьу 8021	TPH by 418.1	Chloride by 300.0						Correct Cont/Prsrv (s) Y/N
SW1-1	1/31/22	1020	S		x	x		x						
SW2-1	1/31/22	1022	S		х	х		Х					1	?
L1-1	1/31/22	1019	5		х	х		Х		L L			00	3
L1-2	1/31/22	1024	S		х	х		X					({
SW4-1	1/31/22	1026	S		х	х		>					5	5
L2-1	1/31/22	1030	S	J	х	x		x					(Q
L2-2	1/31/22	1035	S		Х	х		x						
SW2	1/31/22	1040	S		х	x		х					8	
SW3	1/31/22	1042	S		x	х		х					9	
SW5-1	1/31/22	1021	5		х	x		X					R	
Relinquished by: (Signature) Date Time	Reserved	whe	XV	Date Time **R	ecei	ved	on lo	The Comme	b Us	e Or	ily			
Relinquished by: (Signature) Date Time	Cartte	by: (Signa		2/9/22 10:30 AV	3 Te	- mp,°	c_4	T2_				1	гз	-
and the state of t				Container Tune: g					tie -		mhar	alace	V 1/1	24

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info:

2 + 9 recieved 2/14/22 Cathy Chatra



5796 US Highway 64, Farmington, NM 87401

Three Springs + 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 [x (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879



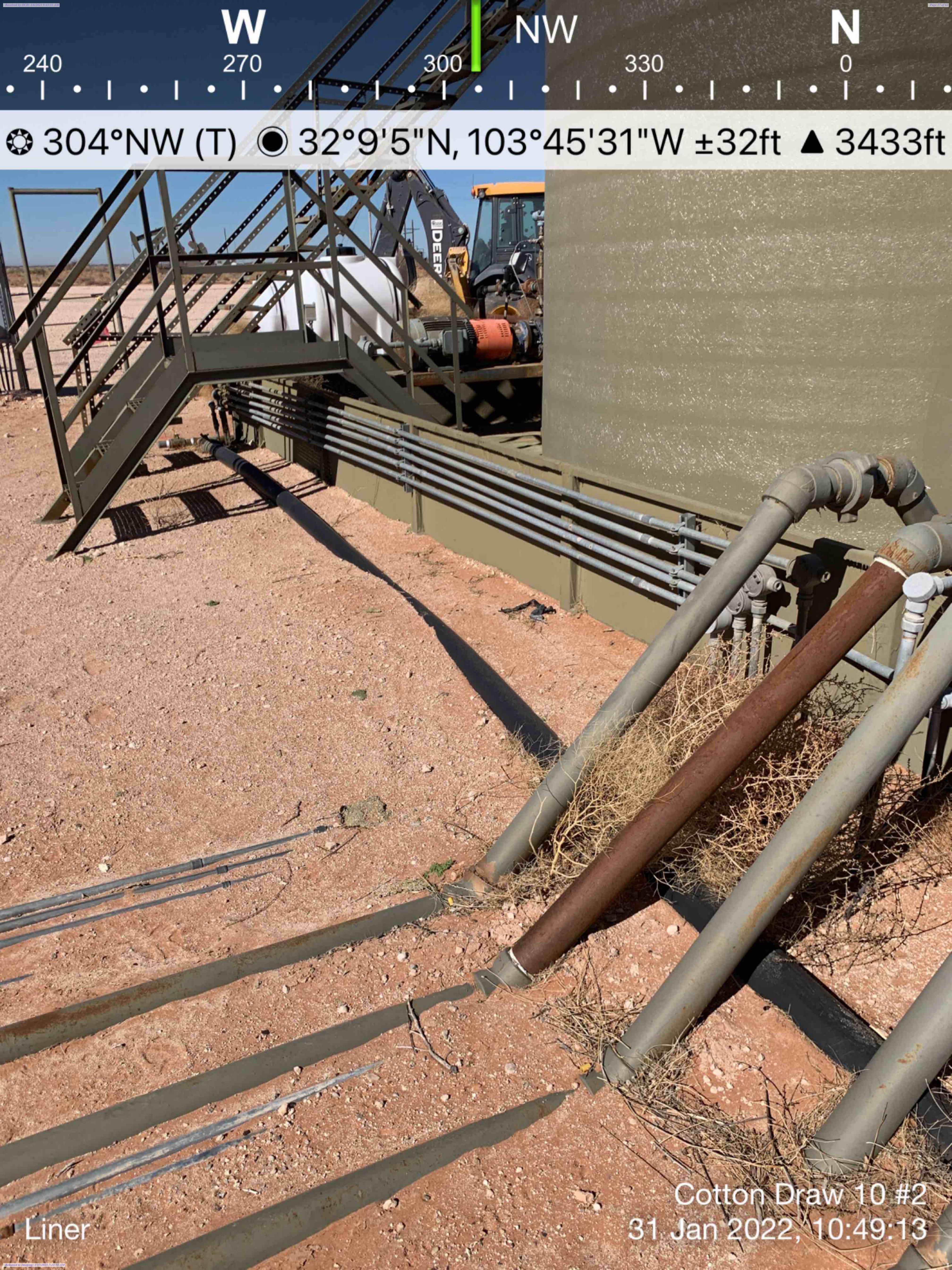
Cotton Draw 10 #2 31 Jan 2022, 10:58:52

② 91°E (T) ③ 32°9'5"N, 103°45'31"W ±32ft ▲ 3421ft

















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

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

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

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

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

CONDITIONS

Action 173434

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	173434
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
bhall	Deferral approved. Incident will remain in "Closure not approved" status until remediation occurs at time of plugging and abandonment or during retrofit of the battery, whichever comes first.	1/17/2023