

New Mexico Oil Conservation Division 506 W. Texas Ave Artesia, NM 88210

RE: Closure Request Letter Devon Energy Production Co. LP Todd 22B Fed 2 nAB1609941598 Eddy County, New Mexico

To Whom It May Concern:

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Co. LP (Devon), presents the following Closure Request Letter (CRL) documenting an approved and signed Release Notification and Final Corrective Action Form C-141 (Form C-141) for an inadvertent release at the Todd 22B Fed 2 (Site) (**Figure 1** in **Appendix A**) assigned Incident Number nAB1609941598. A Closure Request (CR) including Incident Number nAB1609941598 was submitted on May 7th, 2020, detailing the corrective actions that were completed to address the inadvertent release, which was subsequently approved on July 6th, 2022, by the New Mexico Oil Conservation Division (NMOCD).

The Final Form C-141 was approved with the condition that "final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations". As such, Devon requests the NMOCD to acknowledge the documented approval of Closure for Incident Number nAB1609941598 and update the status of the release to "Incident Closure Approved" to reflect the approved CR. All field data and summaries can be referenced in the CR provided in **Appendix B**.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera (432) 305-6416 or erick@etechenv.com.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erich H

Erick Herrera Staff Geologist

syn Ad

Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, Devon New Mexico Oil Conservation Division

Appendices:

- Appendix A: Figure 1: Site Location Map
- Appendix B: Approved Closure Request

# APPENDIX A

# Figure

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# **APPENDIX B**

# **Approved Closure Request**

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# Devon Energy Production Co LP Todd 22B Fed 2 Closure Report

2RP-1671 2RP-3640

# Unit Letter B, Section 22, T23S, R31E Eddy County, New Mexico

# 30-015-32203

February 23, 2017



Prepared for:

Devon Energy Production Co., LP PO Box 250 Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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# TABLE OF CONTENTS

I.	COMPANY CONTACTS	1
II.	BACKGROUND	1
III.	SURFACE AND GROUND WATER	1
IV.	CHARACTERIZATION	2
V.	WORK PERFORMED	2
VI.	REQUEST FOR CLOSURE	3
F	FIGURES & APPENDICES igure 1 – Vicinity Map igure 2 – Site Plan	4
A A	ppendix A – C-141 ppendix B – Groundwater	6 7
A	ppendix C – Analytical Results ppendix D – Photo Documentation	8 9

# I. Company Contacts

Representative	Company	Telephone	E-mail		
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@dvn.com		
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com		

# II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform site delineation on the Todd 22B Fed 2 Battery, concerning several releases comprising of produced water and crude. This site is situated in Eddy County, Section 22, Township 23S, and Range 31E.

According to the C-141: Upon arriving at the Todd 22 Battery location the production field tech for Devon, discovered that the 500 bbl. fiberglass tank had ruptured as a result of the gas venting from production vessels with high gas pressures. 22 bbl. of fluid were not recovered out of the 450 bbl inside the bermed area. Devon Energy took proactive measures recovering most of the fluid, and by plumbing all gas vent lines into open top 50bbl. fiberglass vent tank to keep gas off of the stock and produced water tanks. Immediate notice was provided to Mr. Mike Bratcher with the NMOCD and assigned remediation permit number \***NLRN0428054360**.

According to the C-141: A lease operator arrived on location to discover an open top vent tank running over resulting in a spill of approximately 60bbls of produced water mixed with 5bbls of oil. After further investigation the operator discovered that some rubber had caused a back pressure valve on the separator to plug off, over pressure the separator and send all gas as well as fluid to the vent tank. The spill remained on the caliche location. A Vacuum truck was dispatched and utilized to pick up 60 bbl. of produced water, thereby minimizing the impacted area. This was approved by the NMOCD on June 03, 2013 and issued permit number \***2RP-1671**.

According to the C-141: A manway gasket located on the horizontal heater failed. This resulted in a release of fluid to the interior of the bermed area with some escaping the bermed containment. There was a small amount of overspray onto vegetation on the Southwest side of the pad area. The line was isolated from production in order to prevent further release. The equipment was tagged and locked until repairs could be made. A vacuum truck was dispatched and recovered approximately 45 Bbl. of the fluid. The NMOCD and BLM were notified on April 06, 2016 respectively. The C-141 filed and stamped by the same on April 07, 2016 assigning this event number \***2RP-3640**.

# \*Note the aforementioned spill events all occurred in the same vicinity (site plan).

# III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of this site location. According to the topography map for Eddy County the depth to ground water for Section 22, Township 23S, Range 31E is approximately 180' bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area to be 232' bgs.

Devon Energy Production Eddy County, New Mexico

# IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

Depth to Ground Water:									
(Vertical distance from contaminants to	Less than 50 feet	20 points							
seasonal high water elevation of	50 feet to 99 feet	10 points							
groundwater)	>100 feet	0 points	Χ						
Wellhead Protection Area:									
(Less than 200 feet from a private domestic	Yes	20 points							
water source; or less than 1000 feet from all	No	0 points	Х						
other water sources)		-							
Distance to Surface Water:									
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points							
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points							
canals and ditches)	>1000 feet	0 points	Х						
RANKING SCORE (TOTAL POINTS)			0						

# V. Work Performed

On April 14, 2016 SESI was onsite to photograph, assess and map the spill areas.

On April 18, 2016 SESI personnel returned to the site, in order to complete the vertical delineation of the impacted areas. Whereby, it was determined that two (2) auger holes would be advanced inside the bermed area, and a single auger hole would be advanced in the pad area where it appeared the fluid had "pooled" indicating possibly the most dense impact. Representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (CI<sup>-</sup>) (Method SM 4500CI-B), Benzene, Toluene, Ethylbenzene, Xylene (BTEX 8021B), and Total Petroleum Hydrocarbons (TPH Method 8015M). The results of the analysis are presented in the table below:

Sample Date 04/18/16	Depth	Chloride (mg/kg)	BTEX	TF	ЪН
Sample ID				GRO	DRO
AH-1	Surface	848	<0.300	<10.0	67.6
AH-1	1ft.	160	<0.300	<10.0	<10.0
AH-2	Surface	1010	<0.300	<50.0	2360
AH-2	1ft.	416	<0.300	<50.0	294
AH-2	2ft.	96.0	<0.300	<10.0	<10.0
AH-3	Surface	5760	<0.300	<10.0	<10.0
AH-3	1ft.	3760	<0.300	<10.0	<10.0
AH-3	2ft.	<16.0	<0.300	<10.0	<10.0

Page 9 of 112

On February 03, 2017, pursuant to request from NMOCD, personnel revisit the site to obtain confirmation samples of the over spray area that is located outside the bermed area. Two soil samples were grabbed, properly packaged, preserved, and transported to Cardinal Laboratories, of Hobbs, NM via Chain of Custody to analyzed for Chloride (CI<sup>-</sup>) (Method SM 4500CI-B), Benzene, Toluene, Ethylbenzene, Xylene (BTEX 8021B), and Total Petroleum Hydrocarbons (TPH Method 8015M). The results of the analysis are presented in the table below:

Todd 22									
Cardinal Laboratory Results 02-03-17									
Sample ID	BTEX	Chloride	TPH						
SP-1	<0.300	112	<10.0						
SP-2	<0.300	16	<10.0						

On February 8, 2017 SESI personnel is onsite with TexMex Backhoe, operator and three laborers to continue excavating the release areas. SESI is onsite to begin obtaining confirmation soil samples and field testing for Chlorides. The release area being excavated to six inches was completed and backfilling began. The backhoe continued excavating the pad area and hauling off the spoils using a twelve yard dump truck. All confirmation soil sample field test results were under the 1000 ppm. The excavation and sample points were mapped using the Juno 3B and site photos were taken. All soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (CI<sup>-</sup>) (Method SM 4500CI-B), Benzene, Toluene, Ethylbenzene, Xylene (BTEX 8021B), and Total Petroleum Hydrocarbons (TPH Method 8015M). The results of the analysis are presented in the table below:

Todd 22B Fed 2 May 23, 2017 Page 10 06 1 12

Devon Energy Production Eddy County, New Mexico

	Todd 22B Cardinal Laboratories Results: 2/08/2017													
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	Chlorides	ТРН	ТРН						
			benzene	Xylenes	BTEX		GRO	DRO						
SP-3 East Wall	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	<10.0	<10.0						
SP-4 West Wall	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	<10.0	<10.0						
SP-5 West Wall	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	<10.0	<10.0						
SP-6 North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	<10.0	<10.0						
SP-7 South Wall	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	<10.0	<10.0						
SP-8 Bottom	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	<10.0	<10.0						
SP-9 Bottom	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0						
SP-10 Bottom	<0.050	<0.050	<0.050	13.9	17.6	192	4430	1570						
SP-11 Bottom	<0.050	<0.050	<0.050	<0.150	<0.300	576	<50.0	3880						

# VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 5000 ppm TPH and 1000 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. Devon Energy Production respectfully submits this closure report for your consideration, and requests that no further action be required.

# VII. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – C-141 Appendix B – Groundwater Appendix C – Analytical Results Appendix D – Photo Documentation

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# Figure 1 Vicinity Map

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Figure 2 Site Plan

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Delineation-Excavation Map

SP 10 Bottom

SP 6 North Wall 22 SP 8 Bottom SP 4 West Wall SP 8 East Wall SP 8 East Wall SP 9 East Wall SP 9 West Wall

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SP 7 South Wall

SP 11 Bottom





Todd 22B FED 001 <u>May 23, 2017</u> Devon Energy Production Eddy County, New Mexico

# Appendix A C-141

<u>District I</u> 1625 N. Frencl <u>District II</u>											Form C-141 October 10, 2003		
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		Devon Energ		tion Co. LP			nnifer Van Cure						
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By Whom?						Date and Hour: 9-20-04: 5:00 am If YES, Volume Impacting the Watercourse.							
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Received by	OCD: 4/2	5/2024 8:55	5:25 AM	ERVATION						Page 1840f p		
District 1 1625 N. French		AR	TESIA DI	STRICT St	ate of l	New Mex	ico			Form C-141		
District II 811 S. First St.,		٨	PR 07	20 <sup>Henergy Mi</sup>	nerals a	and Natura	Resources			Revised August 8, 2011		
District III 1000 Rio Brazos		-		Oil C	Conser	vation Div	vision	Submi	it 1 Copy	to appropriate District Office in cordance with 19.15.29 NMAC.		
District IV 1220 S. St. Fran			RECEI			St. Franc			ac	condunce with 19,19,29 Hourse.		
1220 5. 51. Flair	CIS DL., Salita					e, NM 875		_				
			Relo	ease Notific	cation	and Co	orrective A	ction				
NABI	60994	598				OPERAT		$\boxtimes$		l Report 🛛 🛛 Final Repor		
Name of Co	ompany D 88 Seven B	evon Energy Rivers Hwy	y Product	tion Company L			nrique Campos, No. 575.513.193		on Forei	nan		
Facility Na			Artesia, i	NM 00210		Facility Typ						
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Surface Ow	vner Feder			Mineral					API No	30-015-32203		
	Castion					N OF REI		E				
Unit Letter B	Section 22	Township 23S	Range 31E	Feet from the 510		FNL	Feet from the 1980	East/We FE		County Eddy		
					[							
			La	atitude: 32.2957	76	Lor	igitude: 103.76	357				
				NAT	TIRE	OF RELI	EASE					
Type of Rele	ase	<u>-</u>				Volume of		V	/olume F	lecovered		
Oil & Produc		<u></u>					& 48BBLS PW			& 44BBLS PW		
Source of Re Manway gasl		ontal separato	)r			4/5/2016 @	Hour of Occurre			Hour of Discovery @1:52pm		
Was Immedi				<u></u>		If YES, To Whom?						
		$\boxtimes$	Yes 🗌	No Not R	equired	d OCD-Shelly Tucker BLM-Mike Bratcher						
By Whom?						Date and I				- <u></u>		
Jeremy Porra	is, Assistant	Production F	oreman			OCD-4/6/2	016 @ 3:10pm					
Was a Water	rcourse Res	ached?					016 @ 3:05pm Dume Impacting	the Wate	rcourse			
ivus u vvute.	1000150 100		Yes 🗵	No		N/A	and an have a	,				
If a Waterco	ourse was Ii	mpacted, Des	scribe Ful	lly.*		<u>L</u>						
N/A Describe Ca	use of Proh	lem and Par	nedial Ac	tion Taken.*								
The manway	gasket loca	ted on the hor	rizontal he	eater gave out cau				d water to	be releas	ed. The line was isolated from		
				oment was tagged	and lock	ed until repa	rs are made.		. <u> </u>			
2BBLS oil ar	ea Affected nd 48BBLS	of produced y	p Action : water was	released and 1BE	L oil and	d 44BBLS pr	oduced water was	s recovered	d via vaci	um truck. The release		
originated fro	om the many	way gasket on	n the horiz	contal heater on th	e Southv	vest side of p	ad. Oil and produ	iced water	was rele	ased into the bermed		
										nt. Approximately 2 gallons of the affected area was		
				be contacted for	remediat	tion.	-	• •				
	· C			Please s	<u>ee atta</u>	<u>ached clo</u>	sure report.	Reque	esting	closure of this incident		
regulations a	If y that the i	are required t	iven above o report a	e is true and comp nd/or file certain i	nete to tr release n	ne best of my otifications a	nd perform correct	inderstand	ns for rel	uant to NMOCD rules and eases which may endanger		
public health	or the envir	ronment. The	e acceptan	ce of a C-141 rep	ort by the	e NMOCD m	arked as "Final R	eport" doe	es not reli	eve the operator of liability		
should their of	operations h	ave failed to a	adequately	y investigate and a ptance of a C-141	remediate	e contaminati	on that pose a three the operator of	eat to grou	and water ility for c	, surface water, human health ompliance with any other		
		ws_and/or regi			report	oes not rene i		responsion				
	_				Í		<u>OIL CON</u>	SERVA	TION	DIVISION		
Signature: $\mathcal{D}$	ana De	LaRosa								مملو		
Printed Name	e: Dana Del	LaRosa				Approved by	Signed Environmental S	By pecialist.	1/4 /	)KARCalcat		
Title: Field A	Admin Sup	port				Approval Da	1e: 4/7/1	b Ex	piration	Date: NIA		
		<u> </u>							•			
E-mail Addro	ess: dana.de	elarosa@dvn	.com		'	Conditions o Remediat	ion ner O C D	). Rules	& Guid	elinasched		
Date: 4-7-2	016	Phone: 575	.746.5594			SUBMIT	REMEDIATIO	NPHOP	OSAL I	<b>P</b>		
Attach Addi	itional Shee	ets If Necess	sary			LATER TI	1AN:5//	111e_	·	2RP-3641		

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# Appendix B Groundwater

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)		placed, =orphaned, =the file is (quarters are 1=NW 2=NE 3=SW 4=SE) osed) (quarters are smallest to largest) (NAD83 UTM in meters)								s) (I	) (In feet)		
		POD		0	0	0							-	<b>.</b> .
POD Number	Code		County	-	Q 16	4	Sec	Tws	Rng	Х	Y	DepthWellDept		Vater olumn
<u>C 02258</u>		С	ED		3	2	26	238	31E	618055	3571853* 🌍	662		
<u>C 02348</u>		С	ED	1	4	3	26	238	31E	617648	3571068 🌍	700	430	270
<u>C 02492</u>		CUB	ED	4	4	4	06	23S	31E	612056	3577320* 🌍	135	85	50
<u>C 02492 POD2</u>		С	ED	3	2	2	07	238	31E	611767	3576996 🌍	400	125	27
<u>C 02664</u>		CUB	ED	3	3	2	05	23S	31E	613049	3578138* 🌍	4291	354	393′
<u>C 02725</u>		CUB	ED	1	1	1	05	238	31E	612240	3578731* 🌍	532		
<u>C 02773</u>		CUB	ED	4	1	3	03	23S	31E	615668	3577762* 🌍	880		
<u>C 02774</u>		CUB	ED	3	1	3	04	23S	31E	613857	3577745* 🌍	1660		
<u>C 02775</u>		CUB	ED	1	1	1	05	23S	31E	612240	3578731* 🌍	529		
<u>C 02776</u>		CUB	ED	2	1	1	05	238	31E	612440	3578731* 🌍	661		
<u>C 02777</u>		CUB	ED	4	4	4	10	238	31E	616974	3575662 🌍	890		
<u>C 02865</u>		CUB	ED	4	4	4	06	238	31E	612056	3577320* 🌍	174		
C 02954 EXPL		CUB	ED	3	1	4	20	238	31E	613114	3572906* 🌍	905		
<u>C 03140</u>		CUB	ED	4	2	4	04	238	31E	615266	3577758* 🌍	684		
<u>C 03351</u>		С	ED	4	1	4	04	238	31E	614917	3577861 🌍	320	168	15
<u>C 03520 POD1</u>		С	ED	3	1	1	07	23S	31E	610733	3576905 🌍	500		
											Average Depth t	o Water:	232 fe	et
											Minimu	m Depth:	85 fe	et
											Maximu	m Depth:	430 fe	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.

4/25/19 1:13 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Todd 22B Fed 2 Devon Energy Devon Energy Production Eddy County, New Mexico

# **Appendix C – Analytical Results**



February 11, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-16-003

Enclosed are the results of analyses for samples received by the laboratory on 02/03/17 12:00.

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

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	02/03/2017	Sampling Date:	02/03/2017
Reported:	02/11/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

# Sample ID: SP - 1 (H700280-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	
Toluene*	0.061	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2017	ND	194	96.8	200	6.28	
DRO >C10-C28	<10.0	10.0	02/07/2017	ND	207	104	200	3.94	
Surrogate: 1-Chlorooctane	90.8 9	% 35-147							
Surrogate: 1-Chlorooctadecane	98.8 9	28-171							

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\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	02/03/2017	Sampling Date:	02/03/2017
Reported:	02/11/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: SP - 2 (H700280-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	
Toluene*	<0.050	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2017	ND	194	96.8	200	6.28	
DRO >C10-C28	<10.0	10.0	02/07/2017	ND	207	104	200	3.94	
Surrogate: 1-Chlorooctane	78.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	82.0	% 28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 4/25/2024 8:55:25 AM



Released to Imaging: 5/14/2024 3:08:14 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



# Page 2626 112



February 17, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-16-003

Enclosed are the results of analyses for samples received by the laboratory on 02/10/17 8:00.

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

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	Safety & Environmental Solutions								
		Bob Allen							
		703 East Clinton							
		Hobbs NM, 88240							
		Fax To:	(575) 393-4388	3					
Received:	02/10/2017			Sampling Date:	02/08/2017				
Reported:	02/17/2017			Sampling Type:	Soil				
Project Name:	DEV-16-003			Sampling Condition:	Cool & Intact				
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson				

### Sample ID: SP-3 EAST WALL (H700344-01)

NOT GIVEN

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	206	103	200	6.17	
Surrogate: 1-Chlorooctane	88.3	% 35-147							
Surrogate: 1-Chlorooctadecane	100 9	6 28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240					
		Fax To:	(575) 393-4388				
Received:	02/10/2017		Sampling	Date:	02/08/2017		
Reported:	02/17/2017		Sampling	Туре:	Soil		
Project Name:	DEV-16-003		Sampling	Condition:	Cool & Intact		
Project Number:	NONE GIVEN		Sample R	Received By:	Jodi Henson		
Project Location:	NOT GIVEN						

### Sample ID: SP-4 WEST WALL (H700344-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	206	103	200	6.17	
Surrogate: 1-Chlorooctane	90.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 9	28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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		Fax To:	(575) 393-4388				
Received:	02/10/2017			Sampling Date:	02/08/2017		
Reported:	02/17/2017			Sampling Type:	Soil		
Project Name:	DEV-16-003			Sampling Condition:	Cool & Intact		
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson		
Project Location:	NOT GIVEN						

### Sample ID: SP-5 WEST WALL (H700344-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.2	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	
Surrogate: 1-Chlorooctane	82.2	% 35-147							
Surrogate: 1-Chlorooctadecane	96.2	28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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		Fax To:	(575) 393-4388				
Received:	02/10/2017			Sampling Date:	02/08/2017		
Reported:	02/17/2017			Sampling Type:	Soil		
Project Name:	DEV-16-003			Sampling Condition:	Cool & Intact		
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson		
Project Location:	NOT GIVEN						

### Sample ID: SP-6 NORTH WALL (H700344-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	
Surrogate: 1-Chlorooctane	87.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	102 9	28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & En Bob Allen 703 East Cl Hobbs NM,		tions	
		Fax To:	(575) 393-4388		
Received:	02/10/2017			Sampling Date:	02/08/2017
Reported:	02/17/2017			Sampling Type:	Soil
Project Name:	DEV-16-003			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN				

### Sample ID: SP-7 SOUTH WALL (H700344-05)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.0	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	
Surrogate: 1-Chlorooctane	89.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & Er Bob Allen 703 East Cl Hobbs NM,		tions	
		Fax To:	(575) 393-4388	1	
Received:	02/10/2017			Sampling Date:	02/08/2017
Reported:	02/17/2017			Sampling Type:	Soil
Project Name:	DEV-16-003			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN				

#### Sample ID: SP-8 BOTTOM (H700344-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.0	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	
Surrogate: 1-Chlorooctane	84.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.7	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & E Bob Allen 703 East C Hobbs NM		
		Fax To:	(575) 393-4388	
Received:	02/10/2017		Sampling Date:	02/08/2017
Reported:	02/17/2017		Sampling Type:	Soil
Project Name:	DEV-16-003		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN			

### Sample ID: SP-9 BOTTOM (H700344-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	<0.050	0.050	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	<0.050	0.050	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	<0.300	0.300	02/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/13/2017	ND	190	94.9	200	0.527	QR-03
DRO >C10-C28	<10.0	10.0	02/13/2017	ND	207	104	200	1.24	QR-03
Surrogate: 1-Chlorooctane	89.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.7	% 28-171							

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\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & Er Bob Allen 703 East Cl Hobbs NM,		tions		
		Fax To:	(575) 393-4388	3		
Received:	02/10/2017			Sampling Date:		02/08/2017
Reported:	02/17/2017			Sampling Type:	:	Soil
Project Name:	DEV-16-003			Sampling Condition:		Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:		Jodi Henson
Project Location:	NOT GIVEN					

#### Sample ID: SP-10 BOTTOM (H700344-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	<2.00	2.00	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	<2.00	2.00	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	13.9	6.00	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	17.6	12.0	02/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4430	10.0	02/13/2017	ND	190	94.9	200	0.527	
DRO >C10-C28	1570	10.0	02/13/2017	ND	207	104	200	1.24	
Surrogate: 1-Chlorooctane	481	% 35-147	7						
Surrogate: 1-Chlorooctadecane	96.9	% 28-171	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & En Bob Allen 703 East Cli Hobbs NM,		tions	
		Fax To:	(575) 393-4388		
Received:	02/10/2017			Sampling Date:	02/08/2017
Reported:	02/17/2017			Sampling Type:	Soil
Project Name:	DEV-16-003			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN				

### Sample ID: SP-11 BOTTOM (H700344-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	<0.050	0.050	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	<0.050	0.050	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	<0.300	0.300	02/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/14/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/13/2017	ND	190	94.9	200	0.527	
DRO >C10-C28	3880	50.0	02/13/2017	ND	207	104	200	1.24	
Surrogate: 1-Chlorooctane	75.4	% 35-147							
Surrogate: 1-Chlorooctadecane	149 9	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Laboratories

101 East Marland, Hobbs, NM 88240

Page 3840f 112

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: Sampler Name: Project Location: Project #: DEV-16-003 Phone #: Project Manager: Company Name: Project Name: Address: Relinquished By: 1 Ren 400344 Delivered By: (Circle One FOR LAB USE ONLY LEASE NOTE: Liability and Damages. Cardin nalyses. All claims including those for negliger Lab I.D. ice. In no event shall Cardinal be liable for inc inquished By 2 A Z 575 397-0510 2 8 Hobbs 703 East Clinton, PO Box 1613 58-6 (575) 393-2326 FAX (575) 393-2476 50-7 SPS SP4 SPX SP-9 52-3 28-11 50-10 Safety and Environmental Solutions Bob Allen . Cardinal's liability and client's exclusive Sample I.D nce and any other cause whatsoever shall be deemed waived idental of WAT WAY Bottom NON-LA CON 1 WAINT Rotton BOLLON Cotto w SOUTHWINK CALINAN # 75 07/10/1T Project Owner: Fax #: Time: UO Date: Date://J/ State: NM Cox O 575 393-4388 90.0° neluding without limitation, busin dy for any Zip: G)RAB OR (C)OMP Received By: Received By: # CONTAINERS 1 88240 10ran dless of whether such claim is based upon any of the above stated GROUNDWATER unless made in writing and received by Cardinal within 30 days after completion of the applicable mara Cool Intact Sample Condition WASTEWATER MATRIX 4××××××× SOIL OIL SLUDGE ns, loss of use, or loss of profits incurred by client, its subsidiaries. 11 State: P.O. #: Attn: OTHER Fax #: Phone #: City: Address: Company: ACID/BASE: PRESERV shall be limit ICE / COOL XXXXXXXXX CHECKEDBY BILL (Initials) OTHER Same B 200 Zip 5 9 4 e 0 D 20 2 1 U.8. DATE 00 00 8 8 SAMPLING x 70 1 1 3 5 1 13:30 Phone Result: Fax Result: REMARKS: 13:20 13:00 12:40 d by the client for the 13:25 54:11 06:11 12:90 12:05 TIME 8015) PH BIEX Yes Yes londes No ANALYSIS Add'l Phone #: Add'l Fax #: REQUEST

Sampler - UPS - Bus - Other:

C



April 21, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-16-003

Enclosed are the results of analyses for samples received by the laboratory on 04/19/16 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388 Received: 04/19/2016 Sampling Date: 04/18/2016 Reported: 04/21/2016 Sampling Type: Soil Project Name: DEV-16-003 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

#### Sample ID: AH-1 SURFACE (H600842-01)

NOT GIVEN

Project Location:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	67.6	10.0	04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane	134 %	35-147	7						
Surrogate: 1-Chlorooctadecane	161 %	6 28-171							

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Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: AH-1 1' (H600842-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane	138 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	158 9	28-171							

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Celey D. Keene, Lab Director/Quality Manager



DEV-16-003

NONE GIVEN

NOT GIVEN

Sampling Condition:

Sample Received By:

04/18/2016

Cool & Intact

Jodi Henson

Soil

#### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388 04/19/2016 Sampling Date: 04/21/2016 Sampling Type:

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	2360	50.0	04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane	133 9	6 35-147	,						
Surrogate: 1-Chlorooctadecane	228 9	6 28-171							

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: AH-2 1' (H600842-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	294	50.0	04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane	136 %	35-147	7						
Surrogate: 1-Chlorooctadecane	188 %	6 28-171	,						

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: AH-2 2' (H600842-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane	149 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	172 %	6 28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Safety & E	Invironmental Solutions						
		Bob Allen							
		703 East Clinton							
		Hobbs NM, 88240							
		Fax To:	(575) 393-4388						
Received:	04/19/2016		Sampling Date:	04/18/2016					
Reported:	04/21/2016		Sampling Type:	Soil					
Project Name:	DEV-16-003		Sampling Condition:	Cool & Intact					
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson					

#### Sample ID: AH-3 SURFACE (H600842-06)

NOT GIVEN

Project Location:

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050 0.050 04/20/2016 ND				2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28 <10.0		10.0	04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane 141 % 35-14.		% 35-147	,						
Surrogate: 1-Chlorooctadecane	163 9	% 28-171							

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: AH-3 1' (H600842-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	<10.0 10.0		04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane		% 35-147	,						
Surrogate: 1-Chlorooctadecane	163 9	% 28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: AH-3 2' (H600842-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/20/2016	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	<10.0 10.0		04/19/2016	ND	231	116	200	6.11	
Surrogate: 1-Chlorooctane		6 35-147	,						
Surrogate: 1-Chlorooctadecane	164 %	6 28-171							

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother business interruptors, loss of use, or loss of profits incurred by client, its subsidiaries, afflicate or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# 101 East Marland, Hobbs, NM 88240

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.82	Date 19/19/14 Time: Date 2:20 Time:	PLEASE NOTE: Liability and Damages. Cardinals stantity and version of what what so event shall be deemed waived unless made in writing and teceived by Cardinal wram so users analyses. All claims including those for negligence and any other curve what soever shall be deemed waived unless made in writing and teceived by Cardinal wram so users analyses. All claims including those for negligence and any other curve what soever shall be deemed waived unless made in writing and teceived by Cardinal wrapped by Cardinal waters and so what shall Cardinal be table for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of pofils incurred by clark, its subsidiaries, service. In no event shall Cardinal be table for incidental or consequential damages, including without limitation, business interruptions, loss of user or the above stated reasons or otherwise.	ALL & Action and Sentis and the remedy for any daim	8 AH-3 247 9	6 AH-3 surface q	N	3 AR-2 SUNTACE 4	24+1 (17 9)	Alt-1 Surface (4)	-	Lab I.D. Sample I.D.	Sampler Name:	Project Location:	ime:	7	le #:	Hobbs State: NM Zip:	Address: 703 East Clinton, PO Box 1613	Project Manager: Bob Allen	Company Name: Safety and Environmental Solutions	(575) 393-2326 FAX (575) 393-2476
Sample Condition CHECKED BY: Cool Intact Pres Xes	Fax Result:		a set a statistic and clean's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount pad by the client for the contract or tort, shall be limited to the amount pad by the client for the contract or tort, shall be limited to the amount pad by the client for the contract or tort, shall be limited to the amount pad by the client for the contract or tort, shall be limited to the amount pad by the client for the	1 k k k k k k k k k k k k k k k k k k k					X VED ONCO		ROUNDWATER ASTEWATER DIL IL LUDGE THER : CID/BASE: CE / COOL DTHER :	Fax #:	#	State: 21p:			40	Company: Same			RIII TO
		No									BIEN										ANALYSIS REQUEST

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Page 49:0f 112

**CARDINAL** Laboratories

Page 11 of 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Todd 22B Fed 2 Devon Energy Devon Energy Production Eddy County, New Mexico

# Appendix D Site Photographs

# Devon Energy Todd 22B Fed 2



Looking North at impacted pad area



Standing fluid inside berm from SE corner



Standing Fluid inside berm SW corner



Impacted area inside berm NE Corner



Looking SW from center NE corner of bermed area



Looking SW from NE corner of bermed area

## **Devon Energy** Todd 22B Fed 2



Over-spray area looking West



Sprayed area looking Northwest



Sprayed area looking North



Spray are looking West



Spray area looking Southwest



Looking SE at impacted area inside berm



Area of Auger hole 1



Auger hole 2



Auger hole 3 verification of depth



Indicating pooling area of Auger Hole 3

**Devon Energy** 

# Devon Energy-Todd 22B Photos

# Bermed Area Excavated













# Bermed Area Excavated













# Bermed Area Backfilled













# Bermed Area Backfilled













# Bermed Area Backfilled





### Outside Pad Area Excavated



Outside Pad Area Backfilled





Location Sign



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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 60 of 112

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

Incident ID	
District RP	2RP-1671
Facility ID	
Application ID	

# Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
 Data table of soil contaminant concentration data
 Depth to water determination

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

Photographs including date and GIS information

- Topographic/Aerial maps
- Laboratory data including chain of custody

Received by OCD: 4/25/20	24/8:55:25 AM State of New Mexic	_	Page 61 of						
			]	ncident ID					
Page 2	Oil Conservation Div	1S10N	]	District RP	2RP-1671				
			]	Facility ID					
				Application ID					
plan. That plan must inclue and methods, anticipated the 19.15.29.12 NMAC, howev I hereby certify that the infor- regulations all operators are public health or the environ failed to adequately investig	_	to be remediated, g the remediation. e- and release-spe e to the best of my k case notifications and by the OCD does no se a threat to ground rator of responsibili	the proposed The closure ecific parameter cnowledge and d perform correct of relieve the op lwater, surface ty for compliant	remediation techn criteria for a relea ers. understand that pur ective actions for re berator of liability s water, human healt ace with any other f	nique, proposed sampling plan ase are contained in Table 1 of rsuant to OCD rules and leases which may endanger hould their operations have h or the environment. In				
email: <u>Amanda.D</u>	avis@dvn.com	Telephone:	575-74	8-0176					
OCD Only									
Received by:		D	ate:						

Received by OCD: 4/25/2024 8:55:25 AM

Page 3

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	2RP-1671
Facility ID	
Application ID	

# **Remediation 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  $\square$ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Amanda Davis Title: EHS Professional Signature: **Amanda Davis** \_\_\_\_\_ Date: email: Amanda.Davis@dvn.com Telephone: 575-748-0176 OCD Only Received by: Date: Denied Approved Approved with Attached Conditions of Approval Deferral Approved Signature: Date:

Page 4

Oil Conservation Division

Incident ID	
District RP	2RP-1671
Facility ID	
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
☑ Photo enclose of the same distribute of the prime to be defined on the closure of the lines integrity if enclose to be defined on the closure report.

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: Amanda Davis	Title: EHS Professional			
Signature: <b>Amanda Davis</b>	Date:			
email: Amanda.Davis@dvn.com	Telephone: 575-748-0176			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date:			
Printed Name:	Title:			

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3640
Facility ID	
Application ID	

# Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
 Data table of soil contaminant concentration data
 Depth to water determination

Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release

- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

Received by OCD: 4/25/2024 8:55:25 AM Form C-141 State of New Mexico				Page 65 of 112		
				Incident ID		
Page 2 Oil Conservation Divis	on	District RP	2RP-3640			
				Facility ID		
				Application ID		
plan. That plan m and methods, antio 19.15.29.12 NMA I hereby certify th regulations all op public health or th failed to adequate	rization report does not include completed efforts aust include the estimated volume of material to b cipated timelines for beginning and completing th C, however, use of the table is modified by site- a nat the information given above is true and complete to erators are required to report and/or file certain release the environment. The acceptance of a C-141 report by t cly investigate and remediate contamination that pose a ceptance of a C-141 report does not relieve the operators.	e remediated, t e remediation. and release-spe the best of my k notifications and he OCD does not threat to ground	the propose The closu cific param nowledge and perform co ot relieve the water, surfa	ed remediation techr re criteria for a relea neters. ad understand that pur rrective actions for re- operator of liability si ce water, human healt	nique, proposed sampling plan ase are contained in Table 1 of suant to OCD rules and leases which may endanger hould their operations have h or the environment. In	
Printed Name:	Amanda Davis	Title:	EHS I	Professional		
Signature: <b></b>	manda Davis	Date:		_		
email: <u>Am</u>	anda.Davis@dvn.com	Telephone:	575-7	48-0176		
OCD Only						
Received by:		Da	ate:			

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Page 3

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	2RP-3640
Facility ID	
Application ID	

# **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points  $\boxtimes$ Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  $\square$ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Amanda Davis Title: EHS Professional Signature: **Amanda Davis** Date: email: Amanda.Davis@dvn.com Telephone: 575-748-0176 OCD Only Received by: Date: Denied Approved Approved with Attached Conditions of Approval Deferral Approved Signature: Date:

Oil Conservation Division

Incident ID	
District RP	2RP-3640
Facility ID	
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.

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: Amanda Davis	Title: EHS Professional		
Signature: <b>Amanda Davis</b>	Date:		
email: <u>Amanda.Davis@dvn.com</u>	Telephone: <u>575-748-0176</u>		
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.			
Jocelyn Harimon	07/06/2022		
Closure Approved by:	Date:		
Printed Name:	Environmental Specialist		









5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: Todd

Todd 22 B Fed 2

Work Order: E405073

Job Number: 01058-0007

Received: 5/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/24

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. Date Reported: 5/8/24

Gilbert Moreno 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Todd 22 B Fed 2 Workorder: E405073 Date Received: 5/7/2024 5:00:00AM

Gilbert Moreno,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/7/2024 5:00:00AM, under the Project Name: Todd 22 B Fed 2.

The analytical test results summarized in this report with the Project Name: Todd 22 B Fed 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1				
Cover Page	2				
Table of Contents	3				
Sample Summary	4				
Sample Data	5				
BH01 0.5'	5				
QC Summary Data	6				
QC - Volatile Organics by EPA 8021B	6				
QC - Nonhalogenated Organics by EPA 8015D - GRO	7				
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8				
QC - Anions by EPA 300.0/9056A	9				
Definitions and Notes	10				
Chain of Custody etc.	11				
*		Sample Sum	mary		
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Devon Energy - Carlsbad		Project Name:	Todd 22 B Fed 2		Reported:
6488 7 Rivers Hwy		Project Number:	01058-0007		Reporteu.
Artesia NM, 88210		Project Manager:	Gilbert Moreno		05/08/24 12:50
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E405073-01A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.



	Di	impic D	ata			
Devon Energy - Carlsbad	Project Name:		1 22 B Fed 2			D ()
6488 7 Rivers Hwy	Project Numbe		58-0007			<b>Reported:</b> 5/8/2024 12:50:49PM
Artesia NM, 88210	Project Manag	er: Gilb	ert Moreno			5/8/2024 12:50:49PM
		BH01 0.5'				
	-	E405073-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: EG		Batch: 2419057
Benzene	ND	0.0250	1	05/07/24	05/07/24	
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24	
Foluene	ND	0.0250	1	05/07/24	05/07/24	
p-Xylene	ND	0.0250	1	05/07/24	05/07/24	
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24	
Fotal Xylenes	ND	0.0250	1	05/07/24	05/07/24	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: EG		Batch: 2419057
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2419058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24	
Surrogate: n-Nonane		98.7 %	50-200	05/07/24	05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2419056
Chloride	20.2	20.0	1	05/07/24	05/07/24	

# Sample Data

# QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	odd 22 B Fed 2 1058-0007 ilbert Moreno					<b>Reported:</b> 5/8/2024 12:50:49PM
		Volatile Or	rganics l	oy EPA 8021	B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			
LCS (2419057-BS1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
p-Xylene	5.00	0.0250	5.00		99.9	70-130			
o,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			
Matrix Spike (2419057-MS1)				Source: <b>F</b>	405077-0	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133			
Toluene	4.99	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131			
,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			
Matrix Spike Dup (2419057-MSD1)				Source: H	405077-0	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	4.66	0.0250	5.00	ND	93.2	54-133	8.09	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	7.82	20	
Toluene	4.60	0.0250	5.00	ND	92.0	61-130	8.07	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	63-131	8.01	20	
,m-Xylene	9.19	0.0500	10.0	ND	91.9	63-131	8.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	63-131	8.02	20	



# **QC Summary Data**

		QC D	uIIIII	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	odd 22 B Fed 2 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/8/2024 12:50:49PM
	No	nhalogenated O	Organics	by EPA 801	5D - Gl	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
LCS (2419057-BS2)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike (2419057-MS2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike Dup (2419057-MSD2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

## QC Summary Data

		QC D	umma	ii y Data					
Devon Energy - Carlsbad		Project Name:		odd 22 B Fed 2					Reported:
6488 7 Rivers Hwy		Project Number:		058-0007					5/8/2024 12:50:49PM
Artesia NM, 88210		Project Manager:	G	ilbert Moreno					5/8/2024 12:50:49PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419058-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			
LCS (2419058-BS1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			
LCS Dup (2419058-BSD1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132	8.61	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200		-	



## **QC Summary Data**

		-		v					
Devon Energy - Carlsbad		Project Name:	To	odd 22 B Fed	2				Reported:
6488 7 Rivers Hwy		Project Number:	01	058-0007					
Artesia NM, 88210		Project Manager	: G	ilbert Moreno					5/8/2024 12:50:49PM
		Anions	by EPA 3	<b>300.0/9056</b> A	۸				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 (2419056-BLK1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Chloride	ND	20.0							
LCS (2419056-BS1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Chloride	254	20.0	250		101	90-110			
LCS Dup (2419056-BSD1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Chloride	258	20.0	250		103	90-110	1.66	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**

_		2 children		
Γ	Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	
	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Gilbert Moreno	05/08/24 12:50

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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





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Client: De	evon Ene	rgy Produ	iction Co	LP		Bill To	Land to a start		No.	La	b Us	e Onl	y				TAT		EPA P	rogram
	Fodd 22 E		1.0.0		Attention: Jim	Raley		Lab	WO					er	1D	2D	3D	Standard	CWA	SDWA
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5 Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID		Lab Number	Depth[ft.)	TPH GRO/DRO/ORO by 8015	BTEX by	VOC by	Metals	Chloride 300.0		BGDOC		GDOC		Remarks	
11:30	05.03.24	S	1		BH01		1	0.5		S.					x			P		
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						nents are made. Hazardo									client e	xpens	se. The	report for the	analysis of	the above
amples is	applicable (	only to tho	se samples	received by the	laboratory with this COC.	. The liability of the labora	atory is limite	d to th	he amo	ount p	aid fo	r on th	e repo	rt.	-				100.000	and the second
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#### **Envirotech Analytical Laboratory**

Printed: 5/7/2024 8:41:59AM

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:	Devon Energy - Carlsbad	Date Received:	05/07/24 05:00	Work Order ID:	E405073
Phone:	(575) 748-0176	Date Logged In:	05/06/24 15:35	Logged In By:	Angelina Pineda
Email:	Devon-team@etechenv.com	Due Date:	05/07/24 17:00 (0 day TAT)		

#### Chain of Custody (COC)

i

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: <u>Courier</u>
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
<ol> <li>Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.</li> </ol>	Yes	Comments/Resolution
Sample Turn Around Time (TAT)		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
<ol> <li>Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling</li> <li>If no visible ice, record the temperature. Actual sample temperature: 4°C</li> </ol>	Yes	
	<b>±</b>	
Sample Container 14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	
Field Label	105	
20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?	Yes Yes Yes	
Sample Preservation	105	
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	
Multiphase Sample Matrix		
26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	
Subcontract Laboratory		
28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA
<u>Client Instruction</u>		
where show were the		



Page 81 of 112

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

Date

envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: Todd 2

Todd 22 B Fed 2

Work Order: E405074

Job Number: 01058-0007

Received: 5/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/24

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. Date Reported: 5/8/24

Gilbert Moreno 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Todd 22 B Fed 2 Workorder: E405074 Date Received: 5/7/2024 5:00:00AM

Gilbert Moreno,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/7/2024 5:00:00AM, under the Project Name: Todd 22 B Fed 2.

The analytical test results summarized in this report with the Project Name: Todd 22 B Fed 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.

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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

Field Offices:

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 0-0.25'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

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Devon Energy - Carlsbad		Project Name:	Todd 22 B Fed 2		Reported:
6488 7 Rivers Hwy		Project Number:			Reported:
Artesia NM, 88210		Project Manager:	Gilbert Moreno		05/08/24 12:50
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0-0.25'	E405074-01A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.



	50	ampic D	ala			
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbe Project Manag	er: 0103	d 22 B Fed 2 58-0007 eert Moreno			<b>Reported:</b> 5/8/2024 12:50:00PM
	I	FS01 0-0.25'				
		E405074-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2419057
Benzene	ND	0.0250	1	05/07/24	05/07/24	
Ithylbenzene	ND	0.0250	1	05/07/24	05/07/24	
oluene	ND	0.0250	1	05/07/24	05/07/24	
-Xylene	ND	0.0250	1	05/07/24	05/07/24	
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24	
Total Xylenes	ND	0.0250	1	05/07/24	05/07/24	
urrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2419057
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2419058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24	
Surrogate: n-Nonane		99.6 %	50-200	05/07/24	05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2419056
Chloride	20.1	20.0	1	05/07/24	05/07/24	

## Sample Data



# QC Summary Data

Result mg/kg	Project Name: Project Number: Project Manager: Volatile On Reporting Limit mg/kg	01 Gi	dd 22 B Fed 2 058-0007 Ibert Moreno y EPA 802 Source					<b>Reported:</b> 5/8/2024 12:50:00PM								
	Project Manager: Volatile On Reporting Limit	Gi r <b>ganics b</b> <sup>Spike</sup>	lbert Moreno y EPA 802	1B												
	Volatile On Reporting Limit	r <b>ganics b</b> <sub>Spike</sub>	oy EPA 802	1B												
	Reporting Limit	Spike		1B												
	Limit	-	Source	Volatile Organics by EPA 8021B     Analyst: EG												
	mg/kg		Result	Rec	Rec Limits	RPD	RPD Limit									
		mg/kg	mg/kg	%	%	%	%	Notes								
						Prepared: 0:	5/07/24 A	nalyzed: 05/07/24								
ND	0.0250															
ND	0.0250															
ND	0.0250															
ND	0.0250															
ND	0.0500															
ND	0.0250															
7.62		8.00		95.3	70-130											
						Prepared: 0.	5/07/24 A	nalyzed: 05/07/24								
5.16	0.0250	5.00		103	70-130											
5.01	0.0250	5.00		100	70-130											
5.10	0.0250	5.00		102	70-130											
5.00	0.0250	5.00		99.9	70-130											
10.2	0.0500	10.0		102	70-130											
15.2	0.0250	15.0		101	70-130											
7.54		8.00		94.3	70-130											
			Source:	E405077-(	)4	Prepared: 0.	5/07/24 A	nalyzed: 05/07/24								
5.05	0.0250	5.00	ND	101	54-133											
4.90	0.0250	5.00	ND	98.0	61-133											
4.99	0.0250	5.00	ND	99.7	61-130											
4.89	0.0250	5.00	ND	97.7	63-131											
	0.0500	10.0														
14.8	0.0250	15.0	ND	98.9												
7.48		8.00		93.4	70-130											
			Source:	E405077-(	)4	Prepared: 0.	ed: 05/07/24 Analyzed: 05/07/24									
4.66	0.0250	5.00	ND	93.2	54-133	8.09	20									
4.53	0.0250	5.00	ND	90.6	61-133		20									
4.60	0.0250	5.00	ND	92.0	61-130	8.07										
4.51	0.0250	5.00	ND	90.2	63-131	8.01	20									
	0.0500															
13.7	0.0250	15.0	ND			8.02	20									
_	ND           ND           ND           ND           ND           ND           7.62           5.16           5.01           5.10           5.00           10.2           15.2           7.54           5.05           4.90           4.89           9.95           14.8           7.48           4.66           4.53           4.60	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           7.62	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           7.62         8.00           5.16         0.0250           5.01         0.0250           5.00         5.00           5.10         0.0250           5.00         10.0           10.2         0.0500           10.2         0.0250           5.00         15.0           7.54         8.00           5.05         0.0250           5.00         10.0           15.2         0.0250           9.95         0.0500           4.89         0.0250           5.00         10.0           14.8         0.0250           7.48         8.00           4.66         0.0250         5.00           4.60         0.0250         5.00           4.60         0.0250         5.00           4.60         0.0250         5.00           4.60         0.0250         5.00           4.51         0.0250         5.00	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           7.62         8.00           5.16         0.0250           5.01         0.0250           5.00         5.00           5.10         0.0250           5.00         0.0250           5.00         0.0250           5.00         0.0250           5.00         0.0250           5.00         0.0250           5.00         0.0250           5.00         0.0250           7.54         8.00           Source:           5.05         0.0250         5.00           4.90         0.0250         5.00         ND           4.99         0.0250         5.00         ND           4.89         0.0250         5.00         ND           7.48         8.00         ND           7.48         8.00         ND           4.66         0.0250         5.00         ND           4.53         0.0250         5.00         N	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           7.62         8.00         95.3           5.16         0.0250         5.00         103           5.10         0.0250         5.00         100           5.10         0.0250         5.00         102           5.00         0.0250         5.00         102           5.00         0.0250         5.00         102           5.00         0.0250         5.00         101           7.54         8.00         94.3           Source: E405077-0           5.05         0.0250         5.00         ND         99.7           4.89         0.0250         5.00         ND         99.7           4.89         0.0250         5.00         ND         99.5           14.8         0.0250         5.00         ND         98.9           7.48         8.00         93.4         99.2         14.8           0.0250         5.00         ND         93.2         4.53	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           RD         0.0250           7.62         8.00         95.3         70-130           5.16         0.0250         5.00         103         70-130           5.10         0.0250         5.00         100         70-130           5.10         0.0250         5.00         102         70-130           5.10         0.0250         5.00         102         70-130           5.00         0.0250         5.00         102         70-130           5.00         0.0250         5.00         102         70-130           10.2         0.0500         10.0         102         70-130           15.2         0.0250         5.00         ND         94.3         70-130           7.54         8.00         94.3         70-130           4.90         0.0250         5.00         ND         99.7         61-133           4.99         0.0250         5.00         ND         97.7         63-131           9.95         0.0500 <t< td=""><td>ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           7.62         8.00         95.3         70-130           7.62         8.00         95.3         70-130           Prepared: 0           5.16         0.0250         5.00         103         70-130           5.01         0.0250         5.00         100         70-130           5.00         0.0250         5.00         102         70-130           5.00         0.0250         5.00         99.9         70-130           5.00         0.0250         5.00         99.9         70-130           15.2         0.0250         15.0         101         70-130           15.2         0.0250         15.0         101         70-130           7.54         8.00         94.3         70-130           4.90         0.0250         5.00         ND         9.1         54-133           4.99         0.0250         5.00         ND         99.7         61-133           9.95         0.6300         10.0         ND         99.7         61-133</td><td>ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           7.62         8.00         95.3         70-130           5.16         0.0250         5.00         103         70-130           5.01         0.0250         5.00         100         70-130           5.10         0.0250         5.00         102         70-130           5.00         0.0250         5.00         102         70-130           10.2         0.0500         10.0         102         70-130           15.2         0.0250         5.00         99.9         70-130           15.2         0.0250         5.00         ND         94.3         70-130           15.2         0.0250         5.00         ND         99.7         61-133      4.99         0.0250         5.00         ND         99.7         61-133           4.99         0.0250         5.00         ND         99.7         63-131      4.89         0.0250         5.00         ND         99.7         63-131           9.95         0.0500         10.0</td></t<>	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           7.62         8.00         95.3         70-130           7.62         8.00         95.3         70-130           Prepared: 0           5.16         0.0250         5.00         103         70-130           5.01         0.0250         5.00         100         70-130           5.00         0.0250         5.00         102         70-130           5.00         0.0250         5.00         99.9         70-130           5.00         0.0250         5.00         99.9         70-130           15.2         0.0250         15.0         101         70-130           15.2         0.0250         15.0         101         70-130           7.54         8.00         94.3         70-130           4.90         0.0250         5.00         ND         9.1         54-133           4.99         0.0250         5.00         ND         99.7         61-133           9.95         0.6300         10.0         ND         99.7         61-133	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           7.62         8.00         95.3         70-130           5.16         0.0250         5.00         103         70-130           5.01         0.0250         5.00         100         70-130           5.10         0.0250         5.00         102         70-130           5.00         0.0250         5.00         102         70-130           10.2         0.0500         10.0         102         70-130           15.2         0.0250         5.00         99.9         70-130           15.2         0.0250         5.00         ND         94.3         70-130           15.2         0.0250         5.00         ND         99.7         61-133      4.99         0.0250         5.00         ND         99.7         61-133           4.99         0.0250         5.00         ND         99.7         63-131      4.89         0.0250         5.00         ND         99.7         63-131           9.95         0.0500         10.0								



# **QC Summary Data**

		QC D	umm	aly Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	odd 22 B Fed 2 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/8/2024 12:50:00PM
	No	onhalogenated O	Organics	by EPA 801	5D - Gl	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
LCS (2419057-BS2)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike (2419057-MS2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike Dup (2419057-MSD2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

## **QC Summary Data**

		QC D	umma	i y Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		dd 22 B Fed 2 058-0007					Reported:
Artesia NM, 88210		Project Manager:		lbert Moreno					5/8/2024 12:50:00PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419058-BLK1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	52.1		50.0		104	50-200			
LCS (2419058-BS1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			
LCS Dup (2419058-BSD1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132	8.61	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			
Dup (2419058-BSD1) Range Organics (C10-C28)	278	25.0	250		111	38-132	-		nalyzed: 05/0



## **QC Summary Data**

				v					
Devon Energy - Carlsbad		Project Name:	To	odd 22 B Fed	2				Reported:
6488 7 Rivers Hwy		Project Number: 01058-0007							
Artesia NM, 88210				5/8/2024 12:50:00PM					
		Anions	by EPA 3	<b>300.0/9056</b> A	۸				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 (2419056-BLK1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Chloride	ND	20.0							
LCS (2419056-BS1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Chloride	254	20.0	250		101	90-110			
LCS Dup (2419056-BSD1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Chloride	258	20.0	250		103	90-110	1.66	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**

_		2 children		
Γ	Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	
	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Gilbert Moreno	05/08/24 12:50

ND Analyte NOT DETE	CTED at or above the reporting limit
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- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Reroject Information

Received by OCD: 4/25/2024 8:55:25 AM

-	evon Ene		uction Co	D LP		Bill To				Lal	b Use	e On	ly			54.7	TA	T	EPA P	rogram
	Todd 22 B Manager:		Aoreno			: Jim Raley 5315 Buena Vista Dr.	- Alana	Lab	wo#	m	6	Job	Num	-000	7 10	2D	3D	Standard	CWA	SDWA
	13000 W				_	e, Zip: Carlsbad, NM, 8822	20	E	10-)	019				d Metho				24H TAT		RCRA
the second s	te, Zip_Oc				and the second sec	75-885-7502			1			anarys			<u> </u>	1	TT			I NCNA
	32-305-64					n.raley@dvn.com	-		015										State	1
and the second se	evon-tear		env.com	1		1476201 – NM PERMIAN A	BANDON	-	oy 8(									NM CC	UT AZ	TXI
00					LANG MILLION DRAW	D: nAB1609941598	DANDON		RO				3							
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ollecte	d by: Edyt	e Konan						Î	D/DH	802	8260	5010	300.0				ř	×		
Time Sampled	Date Sampled	Matrix	No. of Containers		Samp	le ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC		GDOC		Remarks	s
12:00	05.03.24	S	1		FSG	01		0-0.25							X					
									-						-	-	-			
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Addition	al Instruc	tione						1												
Addition	iai instruc																			
I, (field sam	oler), attest to	the validity	and authen	ticity of this sampl	e. I am aware that tar	npering with or intentionally mislab	elling the sam	ple locat	tion,		1	Sample	s requir	ing therma	l prese	vation n	nust be re	ceived on ice the d	ay they are sam	npled or
				may be grounds fo	or legal action.	Sampled by: EK	5.00	1		1		receive	d packe	d in ice at a	an avg t	emp abo	ove 0 but	less than 6 °C on su	ibsequent days.	
Relinquish	ed by: (Signa	iture)	Date	2 I I I I I I I I I I I I I I I I I I I	e Receiv	red by: (Signature)	Date	11	Time								se On	ly		
7	T				:00 M	whelle Gonzales	12-6.9	14	0	700		Rece	eived	on ice:	(	Y/1	۷			
Kelinquish	ed by: (Sign	ture)	lec 5		Recei	ed by: (Signature)	Date 5.6.	2	Time	1	-									
			Date		705 l.	ved by: (Signature)		14		10	2	<u>T1</u>			<u>T2</u>			<u> </u>		
	ed by: (Signa	iturej	K	1212	Kecel	india (Signature)	Date	71 1	Time	Tar			-	00	U					
( ). <del>K</del>	/ V.	I Calid C	J J	·6·14 1	400 M	mymyn IL HOL	5-1-2	4	US	.00			Tem		1		Not			
				Aqueous, <b>O</b> - Other		ngements are made. Hazardous	Containe												anhuris -fat	a a b avia
samples is	applicable o	only to thos	e samples	received by the l	aboratory with this	COC. The liability of the laborate	ory is limited	to the	amour	nt paid	l for o	n the	report	at the cli	ient e	spense	. iner	eport for the a	alysis of the	e above
						,	,			para							1231010			
													=	3			0	eport for the a	ir	<b>nt</b>
							Page	11 of	10				-	-			6			
							Page	1101	12											

### **Envirotech Analytical Laboratory**

Printed: 5/7/2024 8:50:34AM

Page 93 of 112

envirotech Inc.

.

Sample Receipt Checklist (SRC)

Client:	Devon Energy - Carlsbad Da	ate Received:	05/07/24	05:00		Work Order ID:	E405074		
hone:	(575) 748-0176 D	ate Logged In:	05/06/24	15:50		Logged In By:	Angelina Pineda		
imail:		ue Date:	05/07/24	17:00 (0 day TAT)					
Chain of	f Custody (CQC)								
	the sample ID match the COC?		Yes						
. Does	the number of samples per sampling site location match	the COC	Yes						
8. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	ourier				
	he COC complete, i.e., signatures, dates/times, requested	i analyses?	Yes						
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	c field,	Yes			Commen	ts/Resolution		
Sample	Turn Around Time (TAT)								
	ae COC indicate standard TAT, or Expedited TAT?		Yes						
	sample cooler received?		Yes						
8. If yes,	, was cooler received in good condition?		Yes						
9. Was th	he sample(s) received intact, i.e., not broken?		Yes						
10. Were	e custody/security seals present?		No						
11. If ye	s, were custody/security seals intact?		NA						
	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling o visible ice, record the temperature. Actual sample te	ceived w/i 15	Yes C						
	Container	•	_						
	aqueous VOC samples present?		No						
	VOC samples collected in VOA Vials?		NA						
16. Is th	e head space less than 6-8 mm (pea sized or less)?		NA						
17. Was	a trip blank (TB) included for VOC analyses?		NA						
	non-VOC samples collected in the correct containers?		Yes						
19. Is the	e appropriate volume/weight or number of sample container	s collected?	Yes						
	e field sample labels filled out with the minimum inform	nation:	Yes						
	Sample ID? Date/Time Collected?		Yes						
	Collectors name?		Yes						
	Preservation								
21. Docs	s the COC or field labels indicate the samples were pres-	erved?	No						
	sample(s) correctly preserved?		NA						
24. Is lal	b filteration required and/or requested for dissolved met	als?	No						
	ase Sample Matrix								
	s the sample have more than one phase, i.e., multiphase?		No						
27. If ye	s, does the COC specify which phase(s) is to be analyze	d?	NA						
Subcont	tract Laboratory								
	samples required to get sent to a subcontract laboratory?		No						
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab	: NA				

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

Date





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: Too

Todd 22 B Fed 2

Work Order: E405088

Job Number: 01058-0007

Received: 5/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/13/24

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. Date Reported: 5/13/24

Gilbert Moreno 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Todd 22 B Fed 2 Workorder: E405088 Date Received: 5/7/2024 5:00:00AM

Gilbert Moreno,



Page 95 of 112

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/7/2024 5:00:00AM, under the Project Name: Todd 22 B Fed 2.

The analytical test results summarized in this report with the Project Name: Todd 22 B Fed 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 4'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

## Page 97 of 112

*		Sample Sum	mary		U U
Devon Energy - Carlsbad		Project Name:	Todd 22 B Fed 2		Reported:
6488 7 Rivers Hwy		Project Number:	01058-0007		Reporteu.
Artesia NM, 88210		Project Manager:	Gilbert Moreno		05/13/24 09:27
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 4'	E405088-01A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.



	2	ampie D				
Devon Energy - Carlsbad	Project Name	: Tode	d 22 B Fed 2			
6488 7 Rivers Hwy	Project Numb	oer: 0103	58-0007			Reported:
Artesia NM, 88210	Project Manag	ger: Gilb	ert Moreno		5/13/2024 9:27:13AN	
		BH01 4'				
		E405088-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg Analyst: EG			st: EG		Batch: 2419057
Benzene	ND	0.0250	1	05/07/24	05/07/24	
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24	
Toluene	ND	0.0250	1	05/07/24	05/07/24	
o-Xylene	ND	0.0250	1	05/07/24	05/07/24	
p,m-Xylene	ND	0.0500	1	05/07/24	05/07/24	
Total Xylenes	ND	0.0250	1	05/07/24	05/07/24	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: EG		Batch: 2419057
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2419108
Diesel Range Organics (C10-C28)	ND	25.0	1	05/08/24	05/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/08/24	05/09/24	
Surrogate: n-Nonane		102 %	50-200	05/08/24	05/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2419131
Chloride	20.6	20.0	1	05/08/24	05/10/24	

# Sample Data



# QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	odd 22 B Fed 2 1058-0007 ilbert Moreno					<b>Reported:</b> 5/13/2024 9:27:13AM
		Volatile Or	rganics l	by EPA 8021	B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			
LCS (2419057-BS1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
p-Xylene	5.00	0.0250	5.00		99.9	70-130			
o,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			
Matrix Spike (2419057-MS1)				Source: H	2405077-0	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133			
Toluene	4.99	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131			
o,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131			
Fotal Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			
Matrix Spike Dup (2419057-MSD1)				Source: <b>F</b>	2405077-0	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Benzene	4.66	0.0250	5.00	ND	93.2	54-133	8.09	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	7.82	20	
Toluene	4.60	0.0250	5.00	ND	92.0	61-130	8.07	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	63-131	8.01	20	
o,m-Xylene	9.19	0.0500	10.0	ND	91.9	63-131	8.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	63-131	8.02	20	



## **QC Summary Data**

		QU N		ii y Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	01	odd 22 B Fed 2 1058-0007					<b>Reported:</b>
Artesia NM, 88210		Project Manager:	G	ilbert Moreno					5/13/2024 9:27:13AM
	No	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
LCS (2419057-BS2)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike (2419057-MS2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike Dup (2419057-MSD2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			



## **QC Summary Data**

Devon Energy - Carlsbad		Project Name: Project Number:		dd 22 B Fed 2 058-0007					Reported:
6488 7 Rivers Hwy Artesia NM, 88210		Project Number: Project Manager:		lbert Moreno					5/13/2024 9:27:13AM
	Nonh	alogenated Org		EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419108-BLK1)							Prepared: 0	5/08/24 A	Analyzed: 05/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
	ND ND	25.0 50.0							
Dil Range Organics (C28-C36)			50.0		105	50-200			
Dil Range Organics (C28-C36)	ND		50.0		105	50-200	Prepared: 0	5/08/24 A	Analyzed: 05/09/24
Dil Range Organics (C28-C36) Durrogate: n-Nonane LCS (2419108-BS1)	ND		50.0		105	50-200	Prepared: 0.	5/08/24 A	Analyzed: 05/09/24
Dil Range Organics (C28-C36) Surrogate: n-Nonane LCS (2419108-BS1) Diesel Range Organics (C10-C28)	ND 52.3	50.0					Prepared: 0.	5/08/24 A	Analyzed: 05/09/24
Dil Range Organics (C28-C36) Surrogate: n-Nonane LCS (2419108-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane	ND 52.3 286	50.0	250		114	38-132			Analyzed: 05/09/24 Analyzed: 05/09/24
Diesel Range Organics (C10-C28) Dil Range Organics (C28-C36) Surrogate: n-Nonane LCS (2419108-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane LCS Dup (2419108-BSD1) Diesel Range Organics (C10-C28)	ND 52.3 286	50.0	250		114	38-132			



## **QC Summary Data**

				v					
Devon Energy - Carlsbad		Project Name:	To	dd 22 B Fed	2				Reported:
6488 7 Rivers Hwy		Project Number	01	058-0007					
Artesia NM, 88210		Project Manager	roject Manager: Gilbert Moreno						5/13/2024 9:27:13AM
		Anions	by EPA 3	00.0/9056A	۸				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419131-BLK1)							Prepared: 0:	5/08/24	Analyzed: 05/08/24
Chloride	ND	20.0							
LCS (2419131-BS1)							Prepared: 0:	5/08/24	Analyzed: 05/08/24
Chloride	270	20.0	250		108	90-110			
LCS Dup (2419131-BSD1)							Prepared: 0	5/08/24	Analyzed: 05/08/24
Chloride	270	20.0	250		108	90-110	0.0155	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**

	2 • • • • • • • • • • • •		
Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Gilbert Moreno	05/13/24 09:27
	6488 7 Rivers Hwy	Devon Energy - CarlsbadProject Name:6488 7 Rivers HwyProject Number:	6488 7 Rivers Hwy Project Number: 01058-0007

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

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



Refroject Information

Recaived by OCD: 4/25/2024 8:55:25 AM

Client: D	evon Ene	rgy Produ	iction Co	LP	Bill To				La	ab Us	se On	ly	1019.78	1		TAT		EPA P	rogram
	Todd 22 E				Attention: Jim Raley		Lab WO# Job Number E 405008 01058-0007					_ 1D	2D		Standard	CWA	SDWA		
	Aanager:		loreno		Address: 5315 Buena Vista Dr.	AND STREET	1F	40	508	00	010	SB	-000	7			5 day TAT	thu provi	
	13000 W				City, State, Zip: Carlsbad, NM, 882	20					Analy	sis ar	nd Meth	od	5.00			1200	RCRA
	e, Zip_Oc	the second s		X	Phone: 575-885-7502				1		ΓÍ			T		T		144.01.2.5	
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5					Incident ID. 11AB1003941398			0/0				0		5					
Collecter	by: Edyt	e Konan						/DR	8021	260	010	300.0	1	NM		X			
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride 3		BGDOC		GDOC	×	Remarks	
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1 (field sam	nler) attest t	o the validit	v and authon	ticity of this sample	e. I am aware that tampering with or intentionally mis	labelling the car	nolole	ocation			Sample	es requi	iring therm	al preserv	ation m	ust he rece	lived on ice the da	w they are san	noled or
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ch.c	м.		5	.6.242	400 highly Hall	5-1-2	Y	0	500	0	AVG	Tem	np °C	7_					
Sample Mat	rix: S - Soil, S	d - Solid, Sg	- Sludge, A - J	Aqueous, <b>O</b> - Other		Containe	г Тур	e:g-	glass,	p-p	oly/pl	lastic,	, ag - an	nber gla	ass, v -	VOA			
Note: Sam	ples are dis	carded 30	days after re	esults are reporte	ed unless other arrangements are made. Hazard	lous samples w	vill be	retur	ned to	client	t or dis	spose	d of at th	e client	expen	se. The	report for the	analysis of	the above
samples is	applicable	only to tho	se samples	received by the la	aboratory with this COC. The liability of the labo	ratory is limite	d to t	the am	nount	paid fo	or on t	the rep	port.						
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#### **Envirotech Analytical Laboratory**

Printed: 5/7/2024 11:33:33AM

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:	Devon Energy - Carlsbad	Date Received:	05/07/24 05:00	Work Order ID:	E405088
Phone:	(575) 748-0176	Date Logged In:	05/06/24 17:41	Logged In By:	Angelina Pineda
Email:	Devon-team@etechenv.com	Due Date:	05/13/24 17:00 (4 day TAT)		

#### Chain of Custody (COC)

ī

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: <u>Courier</u>
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
<ol> <li>Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.</li> </ol>	Yes	Comments/Resolution
<u>Sample Turn Around Time (TAT)</u>		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: $\underline{4^{\circ}C}$		
Sample Container		
14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	
<b>Field Label</b> 20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected? Collectors name?	Yes Yes	
Sample Preservation_	105	
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	
Multiphase Sample Matrix		
26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	
Subcontract Laboratory		
28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA
Client Instruction		

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

Date

envirotech Inc.



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

QUESTIONS

Action 337511

QUESTIONS							
Operator:	OGRID:						
WPX Energy Permian, LLC	246289						
Devon Energy - Regulatory	Action Number:						
Oklahoma City, OK 73102	337511						
	Action Type:						
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)						

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1609941598
Incident Name	NAB1609941598 TODD 22B FED 2 @ 30-015-32203
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-32203] TODD 22 B FEDERAL #002

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	Todd 22b Fed 2
Date Release Discovered	04/05/2016
Surface Owner	Federal

#### Incident Details

Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Separator   Crude Oil   Released: 2 BBL   Recovered: 1 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Separator   Produced Water   Released: 48 BBL   Recovered: 44 BBL   Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 337511

QUESTIONS (coi	ntinued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	337511
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of avaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 04/25/2024

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

QUESTIONS, Page 3

Page 109 of 112

Action 337511

**QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	337511
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

#### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	04/18/2016
On what date will (or did) the final sampling or liner inspection occur	02/08/2017
On what date will (or was) the remediation complete(d)	02/08/2017
What is the estimated surface area (in square feet) that will be remediated	2525
What is the estimated volume (in cubic yards) that will be remediated	47
These estimated dates and measurements are recognized to be the best guess or calculation at the	he time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognized that proposed remediation measured may have to be minimally adjusted in	accordance with the physical realities appointered during remediation. If the responsible party has any need to

iation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to CD recognizes that proposed reme significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 337511

QUESTIONS (continued)			
Operator:	OGRID:		
WPX Energy Permian, LLC	246289		
Devon Energy - Regulatory	Action Number:		
Oklahoma City, OK 73102	337511		
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

#### QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to th	he appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:			
(Select all answers below that apply.)			
Is (or was) there affected material present needing to be removed	Yes		
Is (or was) there a power wash of the lined containment area (to be) performed	No		
OTHER (Non-listed remedial process)	Not answered.		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA		
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or		

local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 04/25/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 6

Action 337511

QUESTIONS (continued)		
Operator:	OGRID:	
WPX Energy Permian, LLC	246289	
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 337511	
Okianoma City, OK 73102	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Liner Inspection Information		
Last liner inspection notification (C-141L) recorded	{Unavailable.}	
Was all the impacted materials removed from the liner	Unavailable.	
Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	Yes	
What was the total surface area (in square feet) remediated	2525	
What was the total volume (cubic yards) remediated	47	
Summarize any additional remediation activities not included by answers (above)	Remediation area has been restored with clean backfill material and Closoure was approved on 07/06/22 by Jocelyn Harimon.	
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of	
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report		
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 04/25/2024	

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

Page 112 of 112

CONDITIONS

Action 337511

CONDITIONS Operator: OGRID: WPX Energy Permian, LLC 246289 Devon Energy - Regulatory Action Number: Oklahoma City, OK 73102 337511 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	5/14/2024