



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.

A handwritten signature in black ink, appearing to read "Erick H".

Erick Herrera
Staff Geologist

A handwritten signature in black ink, appearing to read "Joseph S. Hernandez".

Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, Devon
New Mexico Oil Conservation Division

Appendices:

Appendix A: Figure 1: Site Location Map

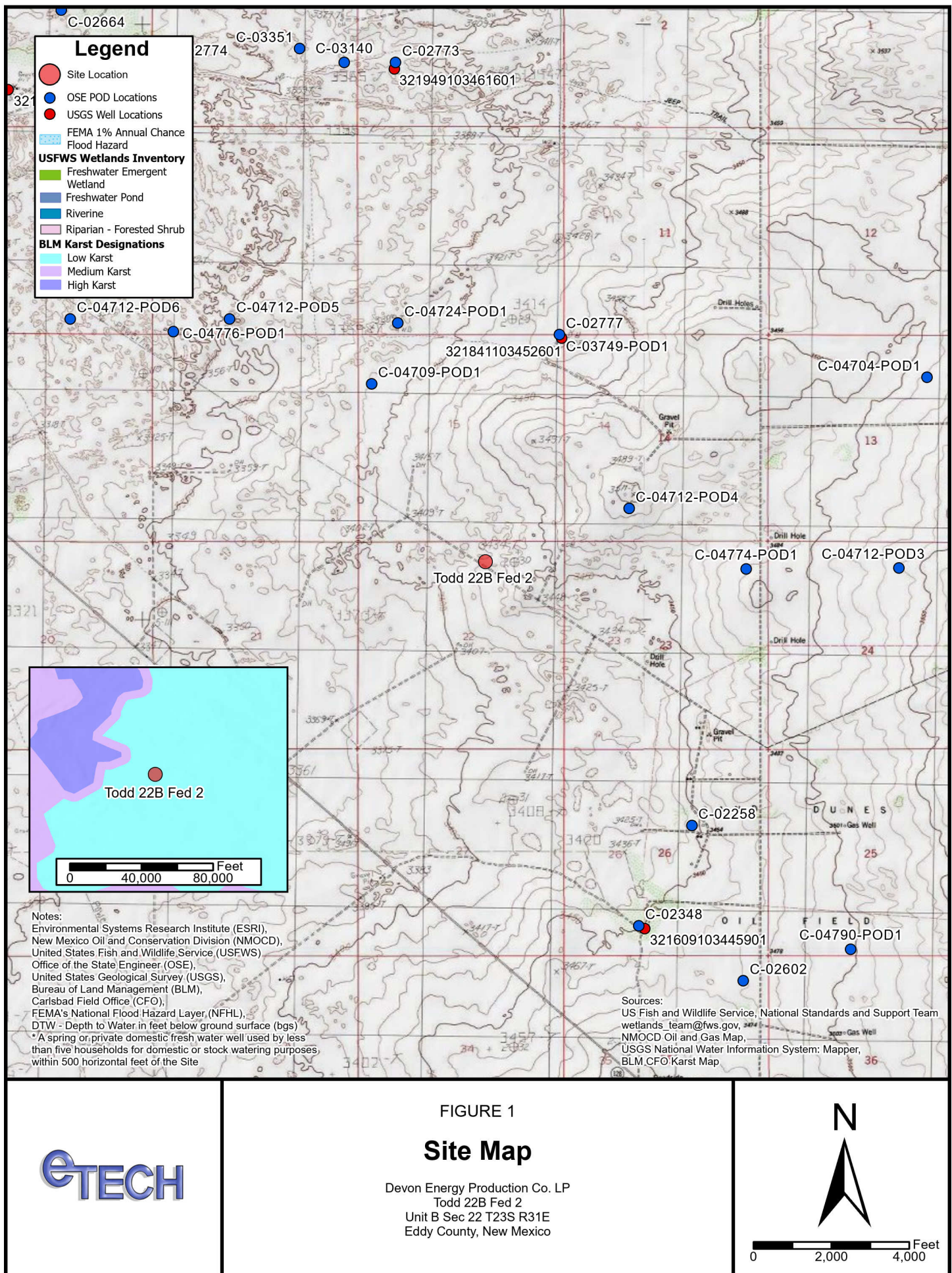
Appendix B: Approved Closure Request

APPENDIX A

Figure

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





APPENDIX B

Approved Closure Request

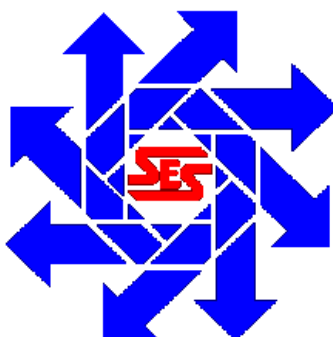
Devon Energy Production Co LP Todd 22B Fed 2 Closure Report

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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Todd 22B Fed 2**May 23, 2017****Devon Energy Production****Eddy County, New Mexico****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 60bbbls of produced water mixed with 5bbbls 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.

Todd 22B Fed 2

May 23, 2017

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 seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
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 (Cl⁻) (Method SM 4500Cl-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	TPH	
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

Todd 22B Fed 2**Devon Energy Production****May 23, 2017****Eddy County, New Mexico**

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 (Cl⁻) (Method SM 4500Cl-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 (Cl⁻) (Method SM 4500Cl-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

Devon Energy Production

Eddy County, New Mexico

Todd 22B Cardinal Laboratories Results: 2/08/2017								
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH 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

Todd 22B Fed 2

May 23, 2017

**Devon Energy Production
Eddy County, New Mexico**

Figure 1 Vicinity Map

Todd 22B Fed 2

2BBLS Oil & 48 BBLS PW

devon

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere

Prepared by: Dana DeLaRosa

Map is current as of: 06-Apr-2016



Miles

0 0.00 0.01 0.02 1:889

S22,T23S,R31E

2BBLS Oil & 48BBLS PW

Todd 22B Fed 2

May 23, 2017

**Devon Energy Production
Eddy County, New Mexico**

Figure 2 Site Plan

Page 14 of 112

Legend

- AH 1 @ 5ft
- ▭ Excavation
- SP



Todd 22B FED 001
May 23, 2017

Devon Energy Production
Eddy County, New Mexico

Appendix A

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

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

30-015-32203

Release Notification and Corrective Action *Todd 22B Fed. #2*

NLRN0428054360

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: Devon Energy Production Co. LP	Contact: Jennifer Van Curen
Address: PO Box 250; Artesia, NM 88211	Telephone No.: 505-748-0160
Facility Name: Todd 22 Battery	Facility Type: Battery

Surface Owner <i>BLM</i>	Mineral Owner	Lease No. NMNM0405444A
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LOCATION OF RELEASE

Unit Letter <i>B</i>	Section 22	Township 23S	Range 31E	Feet from the 510	North/South Line North	Feet from the 1980	East/West Line East	County Eddy
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Water	Volume of Release: 432	Volume Recovered: 428
Source of Release: Damaged PW tank	Date and Hour of Occurrence 9-20-04; 5:00 am	Date and Hour of Discovery 9-20-04; 5:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom?	Date and Hour: 9-20-04; 5:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED

SEP 24 2004

OCD-ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Upon Arrival, found 500 bbl fiberglass tank had ruptured because gas vented from production vessels with high gas pressures. 20 bbl water and 2 bbl oil was not recovered out of 446 bbl Water and 4 bbl oil inside berm. Property Damage cost is approx. \$9000.00. Preventative Action: Plumbed all gas vent lines into open top 50 bbl fiberglass tank to keep gas off the stock and produced water tanks.

Describe Area Affected and Cleanup Action Taken.*

Area Affected: 20' X 20' within the firewall. Corrective Action: Visited with Paul Evans with Carlsbad office BLM, and he wants us to till and air soil. Then use the contaminated soil to build firewall up. Driveway chat will then be hauled in to replace the scraped soil.

Please see attached closure report. Requesting closure of this incident.

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

Signature: <i>Jennifer Van Curen</i>	OIL CONSERVATION DIVISION	
Printed Name: Jennifer Van Curen	Approved by District Supervisor:	
Title: Production Field Tech	Approval Date:	Expiration Date:
E-mail Address: Jennifer.vancuren@dmn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/22/2004	Phone: 748-0160	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Use Newer
Form →

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

nJMW1315429438

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Devon Energy	6137	Contact Daniel Suniga, Foreman
Address P. O. Box 250 Artesia, NM 88211		Telephone No. 575-390-5850
Facility Name Todd 22B Fed #2	30-015-32203	Facility Type Oil Well

Surface Owner	Mineral Owner	Lease No.
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LOCATION OF RELEASE * Include API #. *

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	22	23S	31E	510	North	1980	East	Eddy County

NATURE OF RELEASE

Type of Release Spill Open Vent Tank	Volume of Release 70bbls PW/5bbls Oil	Volume Recovered 60bbls PW/ 5bbls Oil
Source of Release 60 bbls of Produced Water, 5bbls of Oil	Date and Hour of Occurrence 05/11/13, 10:00 AM	Date and Hour of Discovery 05/11/13, 10:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM - Lorraine Chavez, OCD - Mike Bratcher	
By Whom? Wesley Ryan, Assistant Foreman	Date and Hour 05/13/2013, BLM 8:49AM, OCD 8:30AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED

MAY 30 2013

Describe Cause of Problem and Remedial Action Taken.*

(Spill Class II No-SIF) At the Todd 22B Fed #2 battery, a lease operator arrived to discover an open top vent tank running over resulting in a spill of 60bbls of produced water and 5bbls of oil.

NMOCD ARTESIA

Describe Area Affected and Cleanup Action Taken.*

(Spill Class II No-SIF) At the Todd 22B Fed #2 battery, a lease operator arrived to discover an open top vent tank running over resulting in a spill of 60bbls of produced water and 5bbls of oil. After investigating the cause of the spill 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 and fluid to the vent tank. The spill remained on the caliche location. A vacuum truck was called to pick as much fluid as possible. The truck was able to pick up 60bbls of produced water and 5bbls of oil. The total fluid lost was 10bbls of produced water and 5bbls of oil.

Please see attached closure report. Requesting closure of this incident.

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

OIL CONSERVATION DIVISION

Signature: Veronica Teel	Approved by District Supervisor	Signed By: <i>Mike Bratcher</i>
Printed Name: Veronica Teel	JUN 03 2013	
Title: Field Admin. Support	Approval Date:	Expiration Date:
Date: 05/13/13 Phone: (575) 748-9933	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Remediation per OCD Rule &
Guidelines. SUBMIT REMEDIATION

PROPOSAL NO LATER THAN:

July 3, 2013

2RP-11671

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

NMOCD CONSERVATION

ARTESIA DISTRICT

APR 07 2016

RECEIVED

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Devon Energy Production Company **6137** **Contact** Enrique Campos, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210 **Telephone No.** 575.513.1933
Facility Name Todd 22B Fed 2 **Facility Type** Gas

Surface Owner Federal **Mineral Owner** Federal **API No** 30-015-32203

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	22	23S	31E	510	FNL	1980	FEL	Eddy

Latitude: 32.29576

Longitude: 103.76357

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 2BBLS Oil & 48BBLS PW	Volume Recovered 1BBL Oil & 44BBLS PW
Source of Release Manway gasket on horizontal separator	Date and Hour of Occurrence 4/5/2016 @ 1:52pm	Date and Hour of Discovery 4/5/2016 @ 1:52pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Shelly Tucker BLM-Mike Bratcher	
By Whom? Jeremy Porras, Assistant Production Foreman	Date and Hour OCD-4/6/2016 @ 3:10pm BLM-4/6/2016 @ 3:05pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

The manway gasket located on the horizontal heater gave out causing 2 BBLS oil and 48 BBLS produced water to be released. The line was isolated from production to prevent further release. The equipment was tagged and locked until repairs are made.

Describe Area Affected and Cleanup Action Taken.*

2BBLS oil and 48BBLS of produced water was released and 1BBL oil and 44BBLS produced water was recovered via vacuum truck. The release originated from the manway gasket on the horizontal heater on the Southwest side of pad. Oil and produced water was released into the bermed containment surrounding the equipment. Approximately 3 gallons of oil and 2BBLS of PW escaped the bermed containment. Approximately 2 gallons of oil and produced water mix sprayed in a fine mist onto the vegetation on the Southwest side of the pad. The approximate total size of the affected area was 30' x 30' on pad. An environmental agency will be contacted for remediation.

Please see attached closure report. Requesting closure of this incident.

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

Signature: <u>Dana DeLaRosa</u>	OIL CONSERVATION DIVISION	
Printed Name: Dana DeLaRosa	Signed By: <u>[Signature]</u> Approved by Environmental Specialist:	
Title: Field Admin Support	Approval Date: <u>4/7/16</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>dana.delarosa@dmn.com</u>	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> SUBMIT REMEDIATION PROPOSAL NO	
Date: 4-7-2016 Phone: 575.746.5594	LATER THAN: <u>5/11/16</u>	

* Attach Additional Sheets If Necessary

2RP-3640

Appendix B Groundwater



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C 02258		C	ED	3	2	26	23S	31E		618055	3571853*	662		
C 02348		C	ED	1	4	3	26	23S	31E	617648	3571068	700	430	270
C 02492		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	135	85	50
C 02492 POD2		C	ED	3	2	2	07	23S	31E	611767	3576996	400	125	275
C 02664		CUB	ED	3	3	2	05	23S	31E	613049	3578138*	4291	354	3937
C 02725		CUB	ED	1	1	1	05	23S	31E	612240	3578731*	532		
C 02773		CUB	ED	4	1	3	03	23S	31E	615668	3577762*	880		
C 02774		CUB	ED	3	1	3	04	23S	31E	613857	3577745*	1660		
C 02775		CUB	ED	1	1	1	05	23S	31E	612240	3578731*	529		
C 02776		CUB	ED	2	1	1	05	23S	31E	612440	3578731*	661		
C 02777		CUB	ED	4	4	4	10	23S	31E	616974	3575662	890		
C 02865		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	174		
C 02954 EXPL		CUB	ED	3	1	4	20	23S	31E	613114	3572906*	905		
C 03140		CUB	ED	4	2	4	04	23S	31E	615266	3577758*	684		
C 03351		C	ED	4	1	4	04	23S	31E	614917	3577861	320	168	152
C 03520 POD1		C	ED	3	1	1	07	23S	31E	610733	3576905	500		

Average Depth to Water: **232 feet**

Minimum Depth: **85 feet**

Maximum Depth: **430 feet**

Record Count: 16

PLSS Search:

Township: 23S **Range:** 31E

*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



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/03/2017
 Reported: 02/11/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/03/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP - 1 (H700280-01)

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	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 % 73.6-140

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		Analyzed 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 % 35-147

Surrogate: 1-Chlorooctadecane 98.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2017
 Reported: 02/11/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/03/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP - 2 (H700280-02)

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	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: D&V-16-003 Project Owner:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

ATD0230

1 SP-1
2 SP-2

(G)RAB OR (C)OMP.
CONTAINERS

GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :

ACID/BASE:
ICE / COOL
OTHER :

DATE TIME

02/03 0930
02/03 0950

MATRIX

PRESERV

SAMPLING

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 02/03/17

Received By:

Relinquished By:

Date: 1200

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#75 5.80

Sample Condition

Cool Intact

Yes Yes
No No

CHECKED BY:

(Initials)

gfa

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

TPH (8015)
OSTBX
Chloride



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		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		Analyzed 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 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

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		Analyzed 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 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		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		Analyzed 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

Chloride, SM4500CI-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		Analyzed 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

Surrogate: 1-Chlorooctadecane 102 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 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	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 BTX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.0 % 73.6-140

Chloride, SM4500CI-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		Analyzed 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 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

Chloride, SM4500CI-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		Analyzed 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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Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTEx 8021B		mg/kg		Analyzed 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 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

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Analytical Results For:

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

Received: 02/10/2017
 Reported: 02/17/2017
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 02/08/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 28-171

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions		BILL TO		ANALYSIS REQUEST	
Project Manager: Bob Allen		P.O. #:			
Address: 703 East Clinton, PO Box 1613		Company: Same			
City: Hobbs		Attn:			
Phone #: 575 397-0510		Address:			
Fax #: 575 393-4388		City:			
Project #: <u>DEU-16-003</u>		State:			
Project Owner:		Zip:			
Project Name:		Phone #:			
Project Location:		Fax #:			
Sampler Name:		PRESERV		SAMPLING	
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	
		GROUNDWATER		SOIL	
		WASTEWATER		OIL	
				SLUDGE	
				OTHER :	
		ACID/BASE:		ICE / COOL	
				OTHER :	
		DATE	TIME		
4100344	SP-3 EASTWAY	2/8/17	11:30	X	TPH (8015)
1	SP-4 WESTWAY	2/8/17	11:45	X	BTEX
2	SP-5 WESTWAY	2/8/17	12:05	X	Chlorides
3	SP-6 NORTHWAY	2/8/17	12:30		
4	SP-7 SOUTHWAY	2/8/17	12:40		
5	SP-8 BOTTOM	2/8/17	13:20		
6	SP-9 BOTTOM	2/8/17	13:25		
7	SP-10 BOTTOM	2/8/17	13:30		
8	SP-11 BOTTOM				
9					

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Relinquished By: Jan Fury Date: 2/10/17 Time: 8:00 Received By: Para Martin

Relinquished By: Para Martin Date: 2/10/17 Time: 8:00 Received By: Lawrence Elder

Delivered By: (Circle One) #75 3.0c Sample Condition: ☒ Yes ☐ No Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No

Sampler - UPS - Bus - Other: #75 3.0c

CHECKED BY: TP.

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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 % 73.6-140

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		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	67.6	10.0	04/19/2016	ND	231	116	200	6.11	

Surrogate: 1-Chlorooctane 134 % 35-147

Surrogate: 1-Chlorooctadecane 161 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 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 BTX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

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 % 35-147

Surrogate: 1-Chlorooctadecane 158 % 28-171

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Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-2 SURFACE (H600842-03)

BTX 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 BTX	<0.300	0.300	04/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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		Analyzed 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 % 35-147

Surrogate: 1-Chlorooctadecane 228 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 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 BTX	<0.300	0.300	04/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500CI-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		Analyzed 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

Surrogate: 1-Chlorooctadecane 188 % 28-171

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 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 BTX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-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 % 35-147

Surrogate: 1-Chlorooctadecane 172 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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) 107 % 73.6-140

Chloride, SM4500CI-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		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 141 % 35-147

Surrogate: 1-Chlorooctadecane 163 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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 % 73.6-140

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		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 141 % 35-147

Surrogate: 1-Chlorooctadecane 163 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2016
 Reported: 04/21/2016
 Project Name: DEV-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/18/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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 % 73.6-140

Chloride, SM4500CI-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		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 145 % 35-147

Surrogate: 1-Chlorooctadecane 164 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: Dev-16-003 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H000842

1 Att-1 Surface
2 Att-1 1st
3 Att-2 Surface
4 Att-2 2nd
5 Att-3 Surface
6 Att-3 1st
7 Att-3 2nd
8 Att-3 3rd

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

MATRIX PRESERV SAMPLING

DATE 04/18/08 TIME 09:10

Chlorides
TPH (8015)
BTEX

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

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Relinquished By:

Date: 04/19/08

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 4/20/08

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.80

Sample Condition
Cool ☒ Intact ☒
Pres ☒ No ☐

CHECKED BY: (Initials)

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



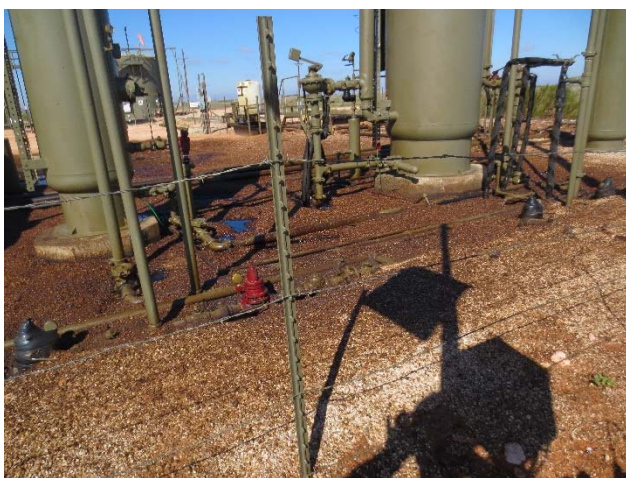
Standing fluid inside berm from SE corner



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 area looking Southwest



Spray are looking West



Looking SE at impacted area inside berm

Devon Energy
Todd 22B Fed 2



Area of Auger hole 1



Auger hole 2



Auger hole 3 verification of depth



Indicating pooling area of Auger Hole 3

Devon Energy-Todd 22B Photos

Bermed Area Excavated



Bermed Area Excavated



Bermed Area Backfilled



Bermed Area Backfilled



Bermed Area Backfilled



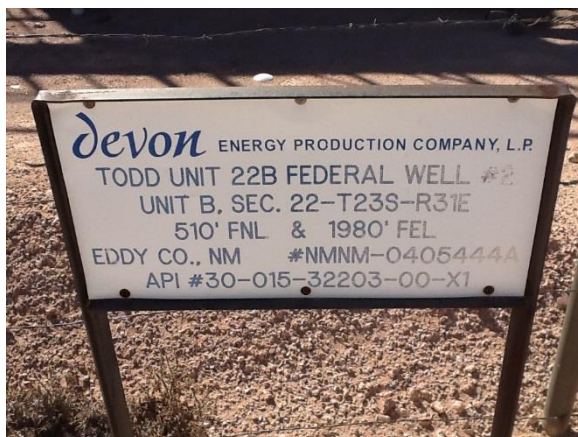
Outside Pad Area Excavated



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

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

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

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

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

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

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

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

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

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

Remediation Plan

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

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

Deferral Requests Only: *Each of the following items must be 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: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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
- ☒ 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: Amanda Davis Date: _____

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

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

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

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

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

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

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

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

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

Remediation Plan

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

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

Deferral Requests Only: *Each of the following items must be 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@dvsn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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.

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

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

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

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis 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: Jocelyn Harimon Date: 07/06/2022
Printed Name: _____ Title: Environmental Specialist





Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: 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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@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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Sample Summary

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
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.



Sample Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported: 5/8/2024 12:50:49PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	

BH01 0.5'

E405073-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	94.8 %	70-130		05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: IY		Batch: 2419056	
Chloride	20.2	20.0	1	05/07/24	05/07/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:49PM

Volatile Organics by EPA 8021B

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
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Blank (2419057-BLK1) Prepared: 05/07/24 Analyzed: 05/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

LCS (2419057-BS1) Prepared: 05/07/24 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			
o-Xylene	5.00	0.0250	5.00		99.9	70-130			
p,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: E405077-04 Prepared: 05/07/24 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			
p,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: E405077-04 Prepared: 05/07/24 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	
p,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	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:49PM

Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2419057-BLK1) Prepared: 05/07/24 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: 05/07/24 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: E405077-04 Prepared: 05/07/24 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: E405077-04 Prepared: 05/07/24 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

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2419058-BLK1)					Prepared: 05/07/24 Analyzed: 05/07/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			

LCS (2419058-BS1)					Prepared: 05/07/24 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: 05/07/24 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

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:49PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2419056-BLK1)					Prepared: 05/07/24 Analyzed: 05/07/24				
Chloride	ND	20.0							
LCS (2419056-BS1)					Prepared: 05/07/24 Analyzed: 05/07/24				
Chloride	254	20.0	250		101	90-110			
LCS Dup (2419056-BSD1)					Prepared: 05/07/24 Analyzed: 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

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.



[illegible]

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
 Phone: (575) 748-0176
 Email: Devon-team@etechnv.com

Date Received: 05/07/24 05:00
 Date Logged In: 05/06/24 15:35
 Due Date: 05/07/24 17:00 (0 day TAT)

Work Order ID: E405073
 Logged In By: Angelina Pineda

Chain of Custody (COC)

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°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 (pca 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

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration 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 InstructionComments/Resolution

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

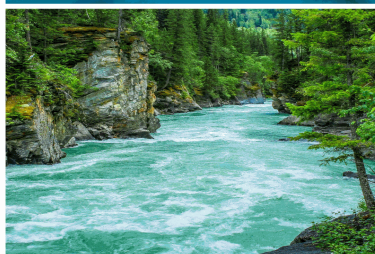
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: 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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
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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Sample Summary

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
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.



Sample Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported: 5/8/2024 12:50:00PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	

FS01 0-0.25'

E405074-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	95.8 %	70-130		05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: 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	Analyst: 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	99.6 %	50-200		05/07/24	05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2419056	
Chloride	20.1	20.0	1	05/07/24	05/07/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:00PM

Volatile Organics by EPA 8021B

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
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Blank (2419057-BLK1) Prepared: 05/07/24 Analyzed: 05/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

LCS (2419057-BS1) Prepared: 05/07/24 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			
o-Xylene	5.00	0.0250	5.00		99.9	70-130			
p,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: E405077-04 Prepared: 05/07/24 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			
p,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: E405077-04 Prepared: 05/07/24 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	
p,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	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:00PM

Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2419057-BLK1) Prepared: 05/07/24 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: 05/07/24 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: E405077-04 Prepared: 05/07/24 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: E405077-04 Prepared: 05/07/24 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

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2419058-BLK1)					Prepared: 05/07/24 Analyzed: 05/07/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			

LCS (2419058-BS1)					Prepared: 05/07/24 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: 05/07/24 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

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/8/2024 12:50:00PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2419056-BLK1)					Prepared: 05/07/24 Analyzed: 05/07/24				
Chloride	ND	20.0							
LCS (2419056-BS1)					Prepared: 05/07/24 Analyzed: 05/07/24				
Chloride	254	20.0	250		101	90-110			
LCS Dup (2419056-BSD1)					Prepared: 05/07/24 Analyzed: 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

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.



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

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

Client: Devon Energy Production Co LP				Bill To		Lab Use Only		TAT			EPA Program																											
Project: Todd 22 B Fed 2				Attention: Jim Raley		Lab WO# E 405074		Job Number 01058-0007			1D	2D	3D	Standard	CWA	SDWA																						
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		City, State, Zip: Carlsbad, NM, 88220		Analysis and Method			24H TAT			RCRA																								
Address: 13000 W County Rd 100				Phone: 575-885-7502																																		
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@devon.com		Depth (ft.)			TPH GRO/DRO/ORO by 8015			BTEX by 8021			VOC by 8260			Metals 6010			Chloride 300.0			BGDOC NM			TX			GDOC			State					
Phone: 432-305-6414				WO: 1061476201 - NM PERMIAN ABANDON																																		
mail: Devon-team@devon.com				Incident ID: nAB1609941598		Remarks			NM			CO			UT			AZ			TX																	
Collected by: Edyte Konan																																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																																	
12:00	05.03.24	S	1	FS01	1	0-0.25'																																
05/06/2024																																						
Additional Instructions:																																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only																										
<i>[Signature]</i>		05/06/24		7:00		Michelle Gonzales		5-6-24		0700		Received on ice: Y / N																										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3																										
Michelle Gonzales		5-6-24		1705		<i>[Signature]</i>		5-6-24		1705																												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C																										
<i>[Signature]</i>		5-6-24		2400		Kuyuph R. H...		5-7-24		0500		4																										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																						

Envirotech Analytical Laboratory

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

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
 Phone: (575) 748-0176
 Email: Devon-team@ctechenv.com

Date Received: 05/07/24 05:00
 Date Logged In: 05/06/24 15:50
 Due Date: 05/07/24 17:00 (0 day TAT)

Work Order ID: E405074
 Logged In By: Angelina Pineda

Chain of Custody (COC)

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
 i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15
 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID? Yes
 Date/Time Collected? Yes
 Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration 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.

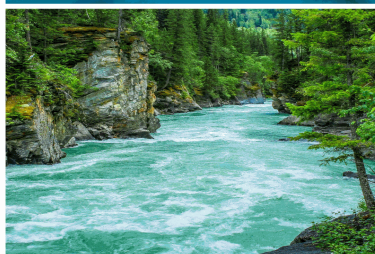
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: 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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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,

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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
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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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 Summary

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
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.



Sample Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported: 5/13/2024 9:27:13AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	

BH01 4'
E405088-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: IY		Batch: 2419131	
Chloride	20.6	20.0	1	05/08/24	05/10/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/13/2024 9:27:13AM

Volatile Organics by EPA 8021B

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
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Blank (2419057-BLK1) Prepared: 05/07/24 Analyzed: 05/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

LCS (2419057-BS1) Prepared: 05/07/24 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			
o-Xylene	5.00	0.0250	5.00		99.9	70-130			
p,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: E405077-04 Prepared: 05/07/24 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			
p,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: E405077-04 Prepared: 05/07/24 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	
p,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	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/13/2024 9:27:13AM

Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2419057-BLK1) Prepared: 05/07/24 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: 05/07/24 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: E405077-04 Prepared: 05/07/24 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: E405077-04 Prepared: 05/07/24 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

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/13/2024 9:27:13AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2419108-BLK1)					Prepared: 05/08/24 Analyzed: 05/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.3		50.0		105	50-200			

LCS (2419108-BS1)					Prepared: 05/08/24 Analyzed: 05/09/24				
Diesel Range Organics (C10-C28)	286	25.0	250		114	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2419108-BSD1)					Prepared: 05/08/24 Analyzed: 05/09/24				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132	1.39	20	
Surrogate: n-Nonane	52.5		50.0		105	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Todd 22 B Fed 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Gilbert Moreno	5/13/2024 9:27:13AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2419131-BLK1)					Prepared: 05/08/24 Analyzed: 05/08/24				
Chloride	ND	20.0							
LCS (2419131-BS1)					Prepared: 05/08/24 Analyzed: 05/08/24				
Chloride	270	20.0	250		108	90-110			
LCS Dup (2419131-BSD1)					Prepared: 05/08/24 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

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

- 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.



[illegible]

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@etechnv.com	Due Date:	05/13/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration 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 InstructionComments/Resolution

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

Date



envirotech Inc.



Sample Name: BH01

Date: 05/03/2024

Site Name: Todd 22 B Fed 2

Incident Number: nAB1609941598

Job Number: 19303

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.295845N, -103.762958W

Hole Diameter: 4 inches

Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<124	0	No	BH01	0.16	0	SP-SM	(0-4') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, some organic matter, no stain, no odor. @ 1.5 No more organic matter.
Dry	<124	0	No		0.5			
Dry	<124	0	No		1	1		
Dry	<124	0	No		2	2		
						3		
Dry	<124	0	No	BH01	4	4		

Total Depth: 4 feet

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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1000 Rio Brazos Rd., Aztec, NM 87410
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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: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	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	No
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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QUESTIONS, Page 2

Action 337511

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	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.
<i>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.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a 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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 04/25/2024
--	--

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QUESTIONS, Page 3

Action 337511

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	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 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 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 completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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 time of submission and may (be) change(d) over time as more remediation efforts are completed.	
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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QUESTIONS, Page 4

Action 337511

QUESTIONS (continued)

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

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvsn.com Date: 04/25/2024
<i>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.</i>	

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QUESTIONS, Page 6

Action 337511

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	337511
	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 remediation 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.

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 (in .pdf format) 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.

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.

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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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 337511

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 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