



June 17, 2020

Bradford Billings
Hydrologist
District 2 Artesia
Oil Conservation Division
Santa Fe, NM 87505

**Subject: Closure Letter Report
ConocoPhillips
1RP-4994
Warren Unit B/T WF #40 Release
Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips (COP), Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips Warren Unit Blinebry/Tubb WF #40 (API #30-025-25204) well is located approximately 20 miles south of Hobbs in Lea County, New Mexico (Site). The Site is located at coordinates 32.5458107°, -103.1342239 ° in Unit Letter G, Section 27, Township 20 South, Range 38 East.

BACKGROUND

According to the C-141, on March 15, 2018 at 1330 hrs. at the Warren Unit #40, a leak was found on an injection line resulting in a release of 12 barrels (bbls) of produced water with 0 bbl recovered. (Attachment A). Immediate action was to shut in line to stop spill. The New Mexico Oil Conservation District (NMOCD) received notification of the release on March 15, 2018 and subsequently assigned the Site the Remediation Permit number 1RP-4994.

SITE CHARACTERIZATION AND REGULATORY FRAMEWORK

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are no water wells located in Unit Letter G, Section 27, Township 20 South, Range 38 East. However, within a radius search of 2.3 miles of the Site, there are four water wells. The average depth to groundwater is 65 feet below ground surface (bgs). The site characterization data is shown in Attachment B.

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil. Based on the site characterization, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride (0 – 4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	10,000 mg/kg
Total TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

TETRA TECH

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Bradford Billings
NMOCD
June 17, 2020

SITE ASSESSMENT SUMMARY

Soil assessment activities for the Site were detailed in a Corrective Action Plan (CAP), which was drafted by COP personnel, but never finalized and submitted (Attachment C). According to the CAP, on October 11, 2018 COP personnel collected soil samples from five locations (SP #1 through SP #5) with a hand auger within the release footprint. At each location, samples were collected at depths of 0 feet bgs (ground surface), 1' bgs, 2' bgs, 4' bgs, and 8' bgs. Thus, a total of twenty (20) samples were submitted to Cardinal Laboratories in Hobbs, NM for analysis. See Figure 3 for sample locations.

All samples collected were analyzed for TPH by Environmental Protection Agency (EPA) Method 8015M, BTEX by EPA Method 8021B, and chlorides by EPA Method SM4500Cl-B. A copy of the laboratory analytical report is included in Attachment D.

The analytical results associated with the soil samples collected exceeded the applicable RRAL's for chlorides in all of the ground surface samples. The applicable RRAL for TPH (1,000 mg/kg) was exceeded at the surface sample interval associated with SP #4. There were no detections of BTEX in any of the analyzed samples. Soil assessment results are summarized in Table 1.

REMEDIAL ACTIONS SUMMARY

Based on the visual footprint and assessment data, remedial actions (proposed in the CAP) and conducted included excavating the entire release extent to 1-foot bgs. Following excavation activities, on February 19, 2019 COP collected confirmation sidewall samples at 12 locations and confirmation floor samples at 11 location and submitted them to Cardinal Laboratories to be analyzed for TPH, BTEX and chlorides (by EPA Method SM4500Cl-B).

Confirmation sidewall sampling results were below the RRAL for chloride in 10 of the 12 sidewall samples collected (Table 2). Sample locations Floor #6 and Floor #9 exceeded the RRAL. Confirmation sidewall sampling results were below the RRAL for chloride in 9 of the 11 samples collected (Table 2). Sample locations Wall #4 and Wall #5 exceeded the RRAL for chloride. A copy of the laboratory analytical report is included in Attachment D.

Due to the RRAL exceedances within the confirmation floor sample results, the excavation floor was deepened 2 additional feet in the vicinity of sample locations Floor #6 and Floor #9, as shown in Figure 4. Due to the RRAL exceedances within the confirmation sidewall sample results, the excavation area was expanded 5' to the south and west, in the vicinity of sample locations Wall #4 and Wall #5, as shown in Figure 4.

Following the additional excavation activities, on March 27, 2019 COP collected confirmation sidewall samples at 2 additional locations (Wall #1* and Wall #2*) as well as confirmation floor samples at 2 additional locations (Floor #1* and Floor #2*) and submitted them to Cardinal Laboratories to be analyzed for TPH, BTEX and chlorides (by EPA Method SM4500Cl-B). Final confirmation sampling results were below RRALs in all samples for all constituents (Table 3). A copy of the laboratory analytical report is included in Attachment D. Figure 4 depicts excavation extents, depths and locations. The excavated soil was taken to an NMOCD approved facility for disposal. The excavated areas were backfilled with clean soil.

VISUAL SITE INSPECTION

At the request of COP, on June 12, 2020 Tetra Tech personnel conducted a visual Site Inspection assessment at the former release area to evaluate current conditions at the Site. The formerly impacted area was identified from the description in the C-141 (and correspondence with ConocoPhillips).

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Bradford Billings
NMOCD
June 17, 2020

Photographic documentation from the visual assessment (with stamped GPS coordinates) is included within Attachment D. A list of field observations describing the Site follow:

- No evidence of staining was noted at the point of release or on the surrounding caliche pad.

CONCLUSION

Based on the assessment data, documented remediation work performed at the Site, confirmation sampling results and recent visual inspection, ConocoPhillips requests closure for this release. The final C-141 form is enclosed in Attachment A.

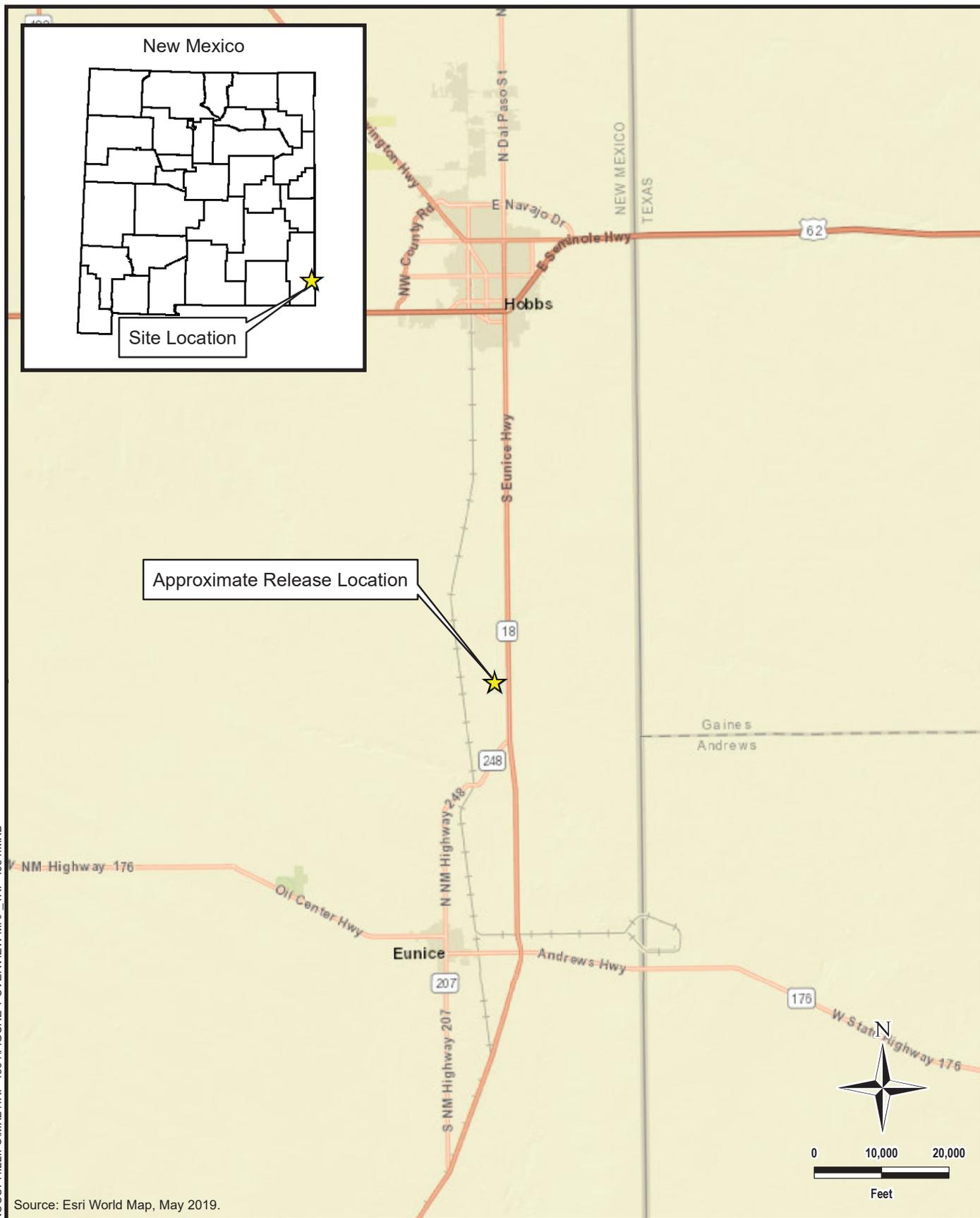
Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at christian.llull@tetratech.com.

Sincerely,



Christian M. Llull
Project Manager
Tetra Tech, Inc.

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4994\FIGURE 1 OVERVIEW MAP -1RP-4994.MXD

Source: Esri World Map, May 2019.



TETRA TECH

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CONOCOPHILLIPS

1RP-4994
(32.545901° -103.134277°)
LEA COUNTY, NEW MEXICO

**WARREN UNIT B/T WF #40 RELEASE
SITE LOCATION MAP**

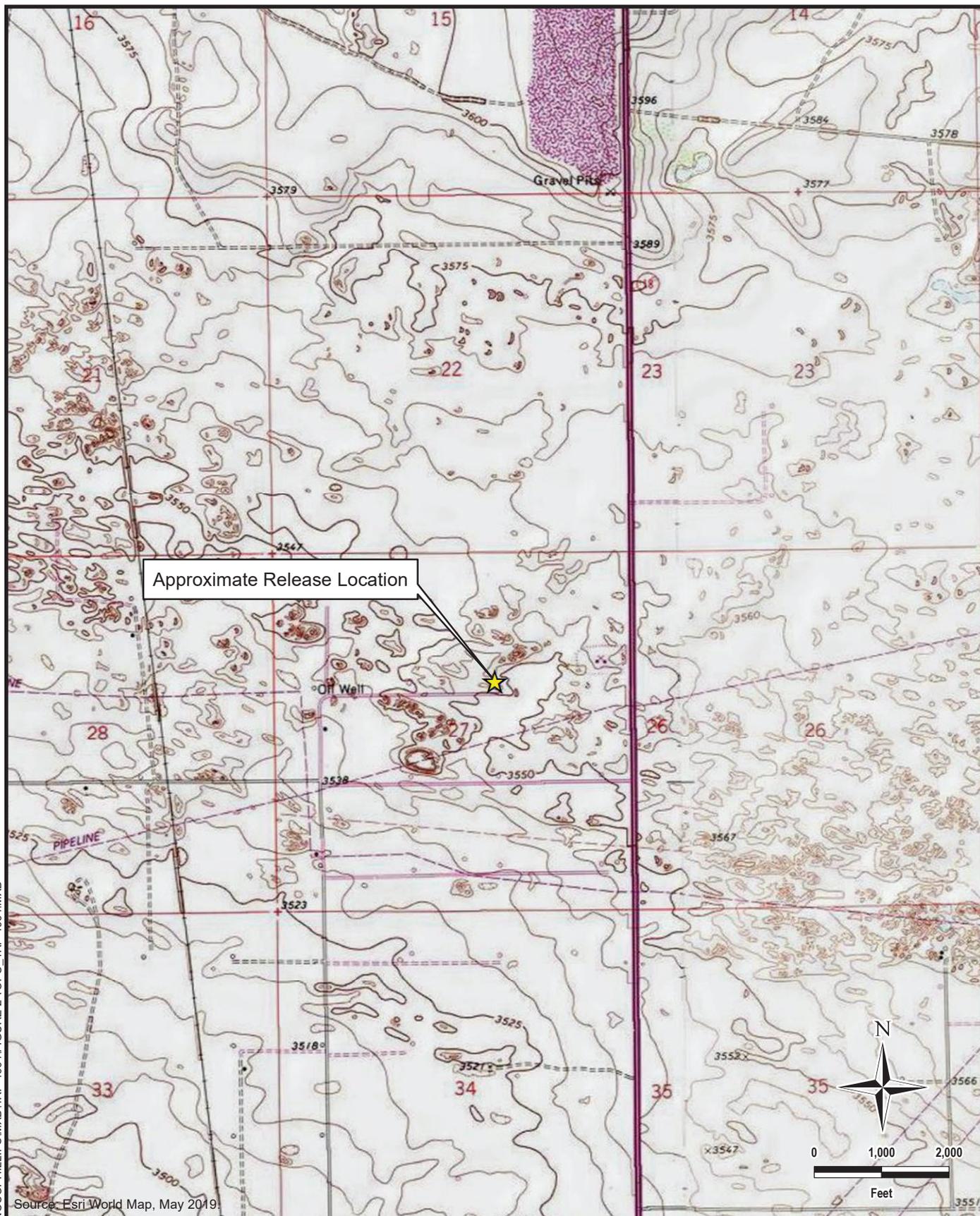
PROJECT NO.: 212C-MD-01796

DATE: JUNE 11, 2020

DESIGNED BY: AAM

Figure No.

1

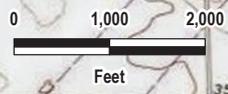


Approximate Release Location

Off Well

Gravel Pits

PIPELINE



Source: Esri World Map, May 2019

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4994\FIGURE 2 TOPO -1RP-4994.MXD



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CONOCOPHILLIPS

1RP-4994
 (32.545901° -103.134277°)
 LEA COUNTY, NEW MEXICO

**WARREN UNIT B/T WF #40 RELEASE
 TOPOGRAPHIC MAP**

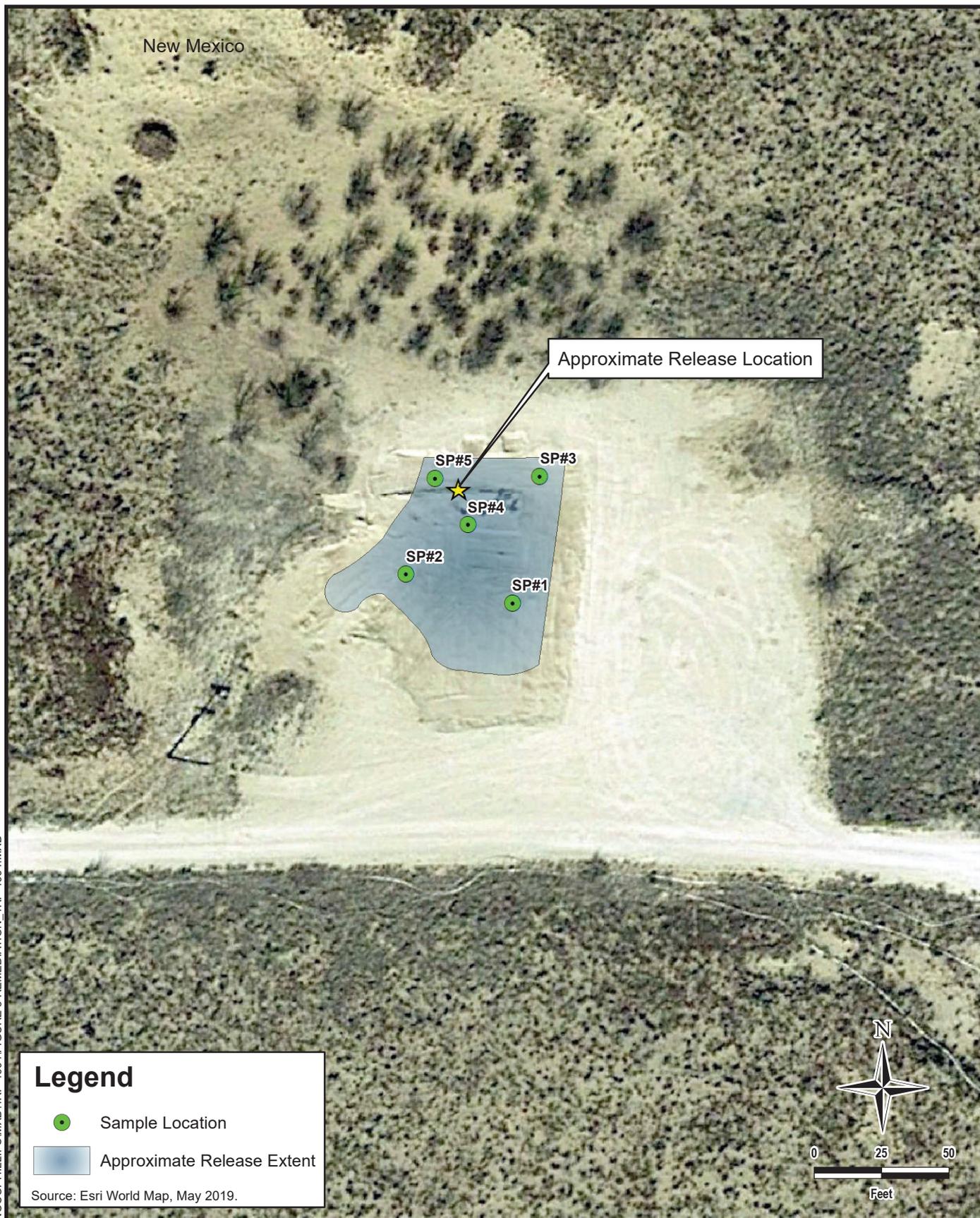
PROJECT NO.: 212C-MD-01796

DATE: JUNE 11, 2020

DESIGNED BY: AAM

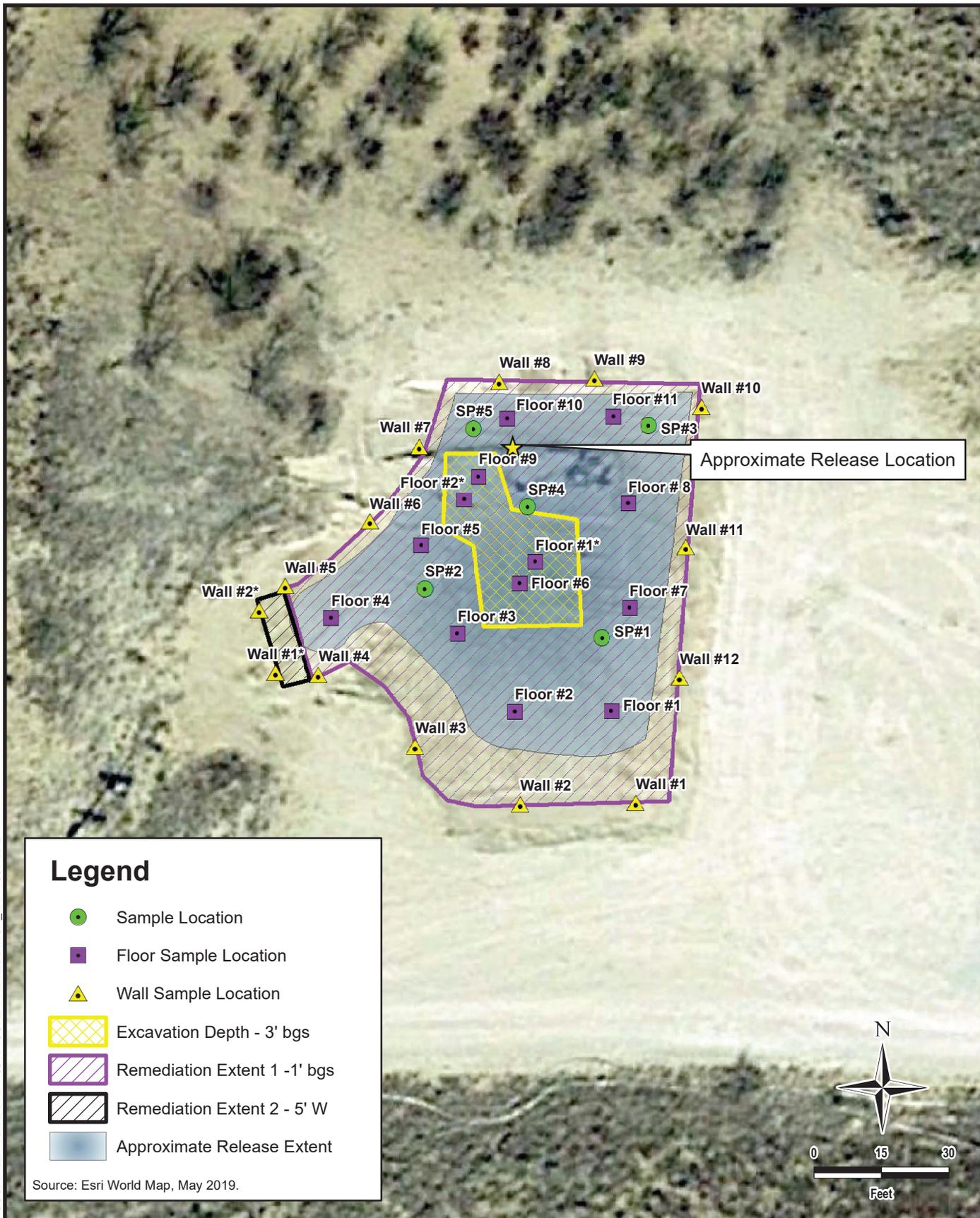
Figure No.

2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4994\FIGURE 3 REMEDIATION - 1RP-4994.MXD

 TETRA TECH www.tetratech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS 1RP-4994 (32.545901° -103.134277°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-01796
	WARREN UNIT B/T WF #40 RELEASE RELEASE ASSESSMENT MAP	DATE: JUNE 12, 2020
		DESIGNED BY: AAM
		Figure No. 3

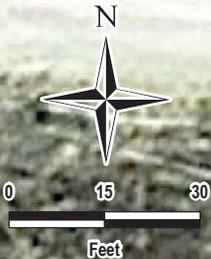


DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4994\FIGURE 4 REMEDIATION - 1RP-4994.MXD

Legend

- Sample Location
- Floor Sample Location
- ▲ Wall Sample Location
- Excavation Depth - 3' bgs
- Remediation Extent 1 - 1' bgs
- Remediation Extent 2 - 5' W
- Approximate Release Extent

Source: Esri World Map, May 2019.



<p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>1RP-4994 (32.545901° -103.134277°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-01796</p> <p>DATE: JUNE 11, 2020</p> <p>DESIGNED BY: AAM</p>
	<p>WARREN UNIT B/T WF #40 RELEASE REMEDATION EXTENTS AND CONFIRMATION SAMPLING</p>	<p>Figure No. 4</p>

TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 INITIAL SOIL ASSESSMENT - 1RP-4994
 CONOCOPHILLIPS
 WARREN UNIT B/T WF WELL #40 RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)	
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg
SP #1	10/11/2018	SURFACE	2360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		28.6		17.2		45.8		45.8
		2	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		4	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #2	10/11/2018	SURFACE	2320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		214		86.1		300		300
		2	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		11.0		13.4		24.4		24.4
		4	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #3	10/11/2018	SURFACE	4520		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		353		152		505		505
		2	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		13.6		19.8		33.4		33.4
		4	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #4	10/11/2018	SURFACE	1460		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		882		289		1171		1171
		2	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		4	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	672		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #5	10/11/2018	SURFACE	3640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		2	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		4	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-

NOTES:

- ft. Feet
 - bgs Below ground surface
 - ppm Parts per million
 - mg/kg Milligrams per kilogram
 - TPH Total Petroleum Hydrocarbons
 - GRO Gasoline range organics
 - DRO Diesel range organics
- Bold and italicized values indicate exceedance of proposed RRALs**
 - 1 SM4500Cl-B
 - 2 EPA Method 8021B
 - 3 EPA Method 8015M

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 FEBRUARY 2019 CONFIRMATION SAMPLING EVENT - 1RP-4994
 CONOCOPHILLIPS
 WARREN UNIT B/T WF WELL #40 RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³								
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)	
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg
Floor #1	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		48.7		41.3		90.0		90.0
Floor #2	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #3	2/19/2019	464		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #4	2/19/2019	64.0		< 0.050	QR-03	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #5	2/19/2019	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #6	2/19/2019	656		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #7	2/19/2019	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #8	2/19/2019	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #9	2/19/2019	1180		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #10	2/19/2019	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #11	2/19/2019	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #1	2/19/2019	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #2	2/19/2019	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #3	2/19/2019	528		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #4	2/19/2019	1580		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #5	2/19/2019	1070		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #6	2/19/2019	128	QR-03	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #7	2/19/2019	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #8	2/19/2019	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #9	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #10	2/19/2019	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #11	2/19/2019	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #12	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-

NOTES:

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 - ppm Parts per million
 - mg/kg Milligrams per kilogram
 - TPH Total Petroleum Hydrocarbons
 - GRO Gasoline range organics
 - DRO Diesel range organics
- Bold and italicized values indicate exceedance of proposed RRALS**
- 1 SM4500CI-B
 - 2 EPA Method 8021B
 - 3 EPA Method 8015M
- QUALIFIERS:**
- 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.

TABLE 3
 SUMMARY OF ANALYTICAL RESULTS
 CONFIRMATION SAMPLING EVENT - MARCH 2019
 1RP-4994
 CONOCOPHILLIPS
 WARREN UNIT B/T WF WELL #40 RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³							
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
Floor #1 *	3/27/2019	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
Floor #2*	3/27/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
Wall #1*	3/27/2019	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-
Wall #2*	3/27/2019	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-

NOTES:

- ft. Feet
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- 1 SM4500CI-B
 - 2 EPA Method 8021B
 - 3 EPA Method 8015M

**ATTACHMENT A
C-141 Forms**

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
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: ConocoPhillips	Contact: Jose A Zepeda
Address: 1410 N West County Rd	Telephone No. 575-391-3165
Facility Name: Warren Unit B/T WF Well #40	Facility Type: Injection Line

Surface Owner: Fee	Mineral Owner: Federal	API No.: 30-025-25204
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	27	20S	38E	1980 FNL		1980 FEL		LEA

Latitude **32.5458107** Longitude **-103.1342239**

NATURE OF RELEASE

Type of Release: PRODUCE WATER & OIL MIX	Volume of Release: 12	Volume Recovered: 0
Source of Release: Injection Line	Date and Hour of Occurrence 03/15/2018 1330	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu,	
By Whom? Jose A Zepeda	Date and Hour: 03/15/2018 1545 Via Email	
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
By Olivia Yu at 12:39 pm, Mar 16, 2018

Describe Cause of Problem and Remedial Action Taken. *
On March 15, 2018 at 1330 hrs. at the Warren Unit #40, a leak was found on an injection line resulting in a release of 12.00 bbls. of produced water with 0 bbl. recovered. Immediate action was to shut in line to stop spill. Spill site will be remediated per COPC and NMOCD & BLM guidelines.

Describe Area Affected and Cleanup Action Taken. *
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>JOSE A ZEPEDA</i>	OIL CONSERVATION DIVISION	
Printed Name: Jose A Zepeda	Approved by Environmental Specialist: 	
Title: LEAD HSE	Approval Date: 3/16/2018	Expiration Date:
E-mail Address: Jose. A. Zepeda@conocophillips.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 03/15/2018	Phone: 575-391-3165	

* Attach Additional Sheets If Necessary

1RP-4994

nOY1807545896

pOY1807546037

Incident ID	nOY1807545896
District RP	1RP-4994
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: Charles R. Beauvais II Title: Environmental Coordinator
 Signature: *Charles R. Beauvais II* Date: 6/16/2020
 email: charles.r.beauvais@conocophillips.com Telephone: 575-988-2043

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: *Brittany Hall* Date: 3/29/2023
 Printed Name: Brittany Hall Title: Environmental Specialist

ATTACHMENT B
Site Characterization Data



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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Well Depth	Water Column
L_07980	L	LE	LE	4	3	26	20S	38E	676412	3601687*		1449	130	65 65
L_09918	L	LE	LE	4	2	21	20S	38E	673954	3604063*		2016	135	
L_13546 POD1	L	LE	LE	4	4	34	20S	38E	675011	3600037		2442	88	
L_10057 POD1	L	LE	LE	3	1	1	24	20S	677465	3604428*		2997	58	

Average Depth to Water: **65 feet**

Minimum Depth: **65 feet**

Maximum Depth: **65 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 675193.694

Northing (Y): 3602472.206

Radius: 3000

*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.

6/11/20 9:16 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Karst Potential Map

1RP-4994
Warren Unit B/T WF #40 Release

Hobbs

Monument

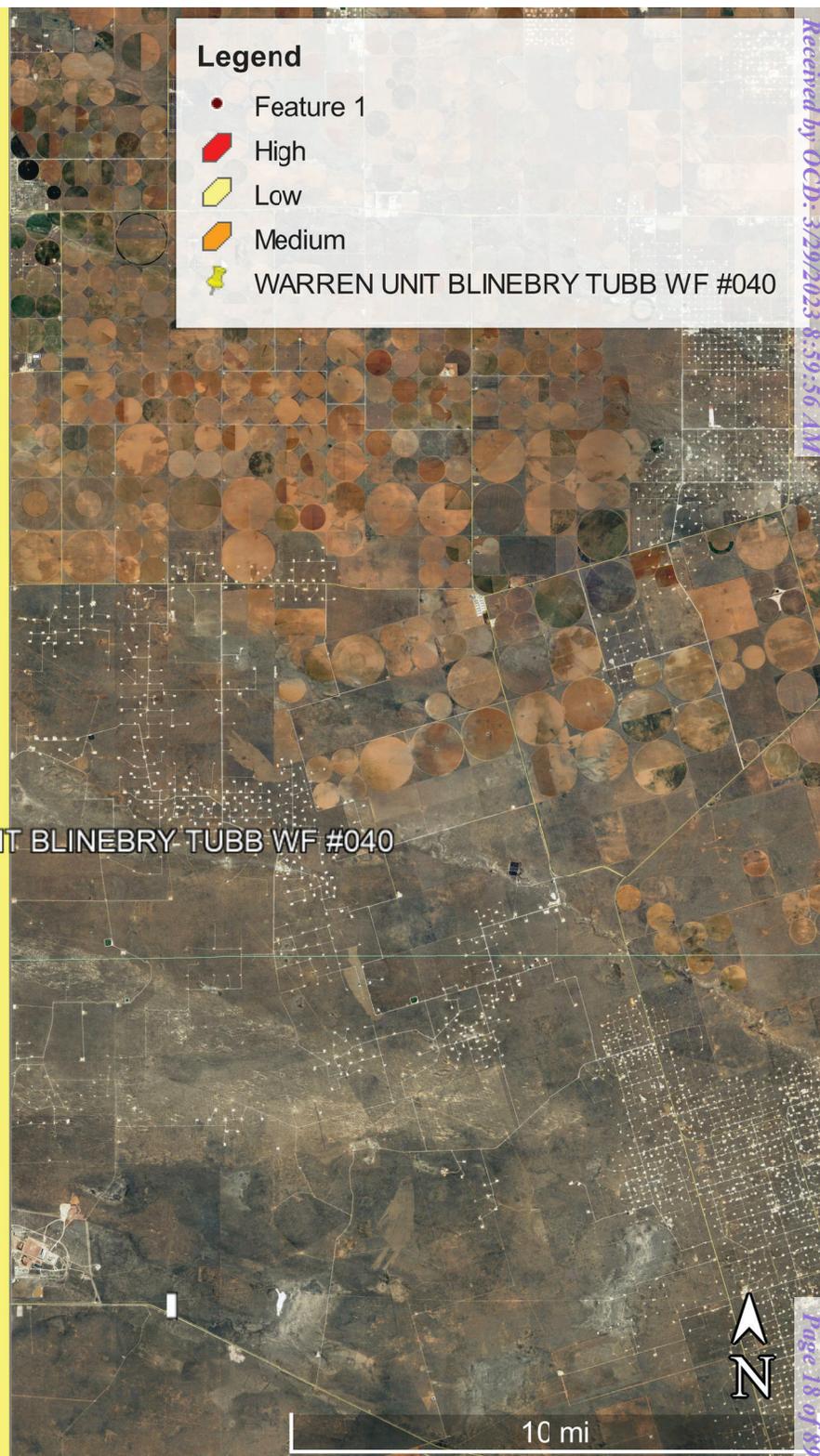
WARREN UNIT BLINEBRY TUBB WF #040

Eunice

Legend

- Feature 1
- High
- Low
- Medium
- WARREN UNIT BLINEBRY TUBB WF #040

Google Earth



ATTACHMENT C
Corrective Action Plan (CAP)



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

October 17, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #40

Enclosed are the results of analyses for samples received by the laboratory on 10/12/18 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 1 - SURFACE (H802939-01)

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	10/17/2018	ND	2.34	117	2.00	2.35	
Toluene*	<0.050	0.050	10/17/2018	ND	2.18	109	2.00	2.14	
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	0.294	
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	0.785	
Total BTEX	<0.300	0.300	10/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	28.6	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	17.2	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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* = 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:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 1 - 2' (H802939-02)

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	10/17/2018	ND	2.34	117	2.00	2.35	
Toluene*	<0.050	0.050	10/17/2018	ND	2.18	109	2.00	2.14	
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	0.294	
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	0.785	
Total BTEX	<0.300	0.300	10/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 1 - 4' (H802939-03)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 1 - 6' (H802939-04)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 1 - 8' (H802939-05)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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* = 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:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - SURFACE (H802939-06)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	214	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	86.1	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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*=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:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - 2' (H802939-07)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	11.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	13.4	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - 4' (H802939-08)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - 6' (H802939-09)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - 8' (H802939-10)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - SURFACE (H802939-11)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4520	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	353	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	152	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - 2' (H802939-12)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	13.6	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	19.8	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - 4' (H802939-13)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - 6' (H802939-14)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - 8' (H802939-15)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 4 - SURFACE (H802939-16)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	882	50.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	289	50.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 99.4 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 4 - 2' (H802939-17)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 4 - 4' (H802939-18)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 4 - 6' (H802939-19)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 4 - 8' (H802939-20)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 5 - SURFACE (H802939-21)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 5 - 2' (H802939-22)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 98.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 5 - 4' (H802939-23)

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	10/17/2018	ND	2.20	110	2.00	3.48	
Toluene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	2.44	
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.26	113	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	2.72	
Total BTEX	<0.300	0.300	10/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-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	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 5 - 6' (H802939-24)

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	10/17/2018	ND	2.20	110	2.00	3.48	
Toluene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	2.44	
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.26	113	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	2.72	
Total BTEX	<0.300	0.300	10/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 5 - 8' (H802939-25)

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	10/17/2018	ND	2.20	110	2.00	3.48	
Toluene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	2.44	
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.26	113	2.00	2.87	
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	2.72	
Total BTEX	<0.300	0.300	10/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/17/2018	ND	400	100	400	3.92	

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	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

Page _____ of _____

Company Name: Conoco Phillips
 Project Manager: Justin Wright

P.O. #: _____
 Company: COPC

Address: _____
 State: NM Zip: 88440

City: Hobbs Fax #: _____
 Phone #: 575-631-9932 Project Owner: _____

Project #: _____
 Project Name: WALTER WAY 40

Project Location: _____
 Sampler Name: _____
 FOR LAB USE ONLY

Lab I.D. H802939

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chlorides	BTEX	Benzene	TPH - Extended
SP#1 - surface	G		SOIL			10-11	9:00	✓	✓	✓	✓
SP#1 - 2'	G		SOIL			10-11	9:05	✓	✓	✓	✓
SP#1 - 4'	G		SOIL			10-11	9:11	✓	✓	✓	✓
SP#1 - 6'	G		SOIL			10-11	9:18	✓	✓	✓	✓
SP#1 - 8'	G		SOIL			10-11	9:25	✓	✓	✓	✓
SP#2 - surface	G		SOIL			10-11	9:31	✓	✓	✓	✓
SP#2 - 2'	G		SOIL			10-11	9:36	✓	✓	✓	✓
SP#2 - 4'	G		SOIL			10-11	9:43	✓	✓	✓	✓
SP#2 - 6'	G		SOIL			10-11	9:50	✓	✓	✓	✓
SP#2 - 8'	G		SOIL			10-11	9:58	✓	✓	✓	✓

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Sampler Relinquished: _____ Date: 10-12-18 Received By: _____
 Relinquished By: _____ Date: 1:00 pm Received By: Barbara Kelly

Delivered By: (Circle One) Temp. Sample Condition CHECKED BY: (Initials)
 Cooler Yes No Intact Yes No

Sampler - UPS - Bus - Other: -0.1c #47
 * Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

REMARKS: _____
 Phone Result: No Add'l Phone #: _____
 Fax Result: No Add'l Fax #: _____



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

Company Name: ConocoPhillips
 Project Manager: Justin Wright

BILL TO

ANALYSIS REQUEST

Page ___ of ___

Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-631-9090 Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Warren Unit 40
 Project Location: Lea County NM 88240
 Sampler Name: Justin Wright

P.O. #: _____
 Company: COP
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

FOR LAB USE ONLY	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME

Lab I.D. <u>H802939</u>					
<u>21</u> SP#5- Surface	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>10-11</u> <u>11:18</u>
<u>22</u> SP#5- 2'	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>10-11</u> <u>11:18</u>
<u>23</u> SP#5- 4'	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>10-11</u> <u>11:26</u>
<u>24</u> SP#5- 6'	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>10-11</u> <u>11:31</u>
<u>25</u> SP#5- 8'	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>10-11</u> <u>11:38</u>

ANALYSIS REQUEST	Chlorides	BTEX	Benzene	TPH - Extended
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished By: _____ Date: 10-12-18 Time: 1:00pm
 Relinquished By: _____ Date: _____ Time: _____
 Received By: Sharon Adams

Delivered By: (Circle One) _____ Temp: _____
 Sampler - UPS - Bus - Other: -0.1c #97 Sample Condition: 70
 Yes Intact
 No No

REMARKS: _____
 Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:



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

February 27, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #40

Enclosed are the results of analyses for samples received by the laboratory on 02/20/19 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #1 (H900656-01)

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	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2019	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	48.7	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	41.3	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #2 (H900656-02)

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	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2019	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #3 (H900656-03)

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	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/22/2019	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #4 (H900656-04)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	QR-03
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	02/22/2019	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #5 (H900656-05)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/22/2019	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 96.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #6 (H900656-06)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #7 (H900656-07)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

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	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16		
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2		
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND						

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #8 (H900656-08)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
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 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #9 (H900656-09)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
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 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #10 (H900656-10)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #11 (H900656-11)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16		
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2		
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND						

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
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 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #1 (H900656-12)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

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	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
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 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #2 (H900656-13)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/22/2019	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	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #3 (H900656-14)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #4 (H900656-15)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #5 (H900656-16)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	02/22/2019	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #6 (H900656-17)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/22/2019	ND	416	104	400	3.92	QR-03

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	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #7 (H900656-18)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/22/2019	ND	416	104	400	3.92	

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	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #8 (H900656-19)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

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	02/22/2019	ND	416	104	400	3.92	

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	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #9 (H900656-20)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2019	ND	416	104	400	3.92	

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	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
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 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #10 (H900656-21)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 73.3-129

Chloride, SM4500Cl-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	02/22/2019	ND	416	104	400	3.92	

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	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #11 (H900656-22)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129

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	02/22/2019	ND	416	104	400	3.92	

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	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: WALL #12 (H900656-23)

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	02/25/2019	ND	2.11	106	2.00	0.366	
Toluene*	<0.050	0.050	02/25/2019	ND	1.99	99.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/25/2019	ND	2.06	103	2.00	1.93	
Total Xylenes*	<0.150	0.150	02/25/2019	ND	6.38	106	6.00	1.61	
Total BTEX	<0.300	0.300	02/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2019	ND	416	104	400	3.92	

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	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

Page _____ of _____

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips
 Project Manager: Justin Wright
 Address: _____
 City: Hobbs State: NM Zip: _____
 Phone #: 575-631-9098 Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Warren Unit 40
 Project Location: Lea County, NM
 Sampler Name: Justin Wright
 P.O. #: _____ Company: ConocoPhillips
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	DATE	TIME	Chlorides	TPH	BTEX	TPH-Extended
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:							
<u>H900656</u>																	
	<u>Floor #1</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:35</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #2</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:38</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #3</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:42</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #4</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:45</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #5</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:49</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #6</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:52</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #7</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:54</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #8</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>10:58</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #9</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>11:01</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>Floor #10</u>	<u>G</u>		<input checked="" type="checkbox"/>								<u>2-19</u>	<u>11:05</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Received By: Scott Jensen
 Date: 2-10-19 Time: 11:55
 Relinquished By: _____ Date: _____ Time: _____
 Phone Result: No Add'l Phone #: _____
 Fax Result: No Add'l Fax #: _____

Temp. _____
 Sample Condition: Intact Cool Yes No
 CHECKED BY: [Signature]
 Delivered By: (Circle One) 3.12/#97
 Sampler - UPS - Bus - Other: _____

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



CARDINAL LABORATORIES

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 (575) 393-2326 Fax (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Conce Phillips
 Project Manager: Justin Wright
 Address: _____
 City: Hobbs State: NM Zip: _____
 Phone #: 575-631-9052 Fax #: _____
 Project #: _____ Project Owner: CDPC
 Project Name: Warren Chit'ld
 Project Location: Lea County, NM
 Sampler Name: Justin Wright
 P.O. #: _____ Company: CDPC
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		DATE	TIME	Chlorides	TPH	BTEX	TPH-Extended
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
<u>H9006540</u>	<u>Floor #11</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:09</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #1</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:15</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #2</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:17</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #3</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:20</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #4</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:24</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #5</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:29</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #6</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:32</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #7</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:36</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>Wall #8</u>	<u>G</u>	<u>6</u>	<u>✓</u>							<u>2-19</u>	<u>11:36</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

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Sampler Relinquished: _____ Date: _____ Time: _____
 Received By: Justin Wright
 Relinquished By: _____ Date: 2-20-19 Time: _____
 Received By: Justin Wright

Delivered By: (Circle One) Temp. Sample Condition Intact CHECKED BY: [Signature]
 Sampler - UPS - Bus - Other: -3.10/1 #907 Yes No No No

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 (575) 393-2326 Fax (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: *Conoco Phillips*
 Project Manager: *Justin Wright*
 Address: _____
 City: *Hobbs* State: *NM* Zip: _____
 Phone #: *575-631-8088* Fax #: _____
 Project #: _____ Project Owner: *COPL*
 Project Name: *Warren Unit 4D*
 Project Location: *Lea County, NM*
 Sampler Name: *Justin Wright*
 FOR LAB USE ONLY

P.O. #: _____
 Company: *COPL*
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH	BTEX	TPH-Extended
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
<i>HP006510</i>																	
	<i>U611 #9</i>	<input checked="" type="checkbox"/>											<i>2-19-11 11:39</i>				
	<i>U611 #10</i>	<input checked="" type="checkbox"/>											<i>2-19 11:44</i>				
	<i>U611 #11</i>	<input checked="" type="checkbox"/>											<i>2-19 11:47</i>				
	<i>U611 #12</i>	<input checked="" type="checkbox"/>											<i>2-19 11:52</i>				

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Relinquished By: _____ Date: *2-20-11* Received By: *Spedi Munson*
 Time: *11:55*

Delivered By: (Circle One) _____ Temp. _____ Sample Condition _____ CHECKED BY: _____
 Cooler Intact Yes No Yes No

Sampler - UPS - Bus - Other: *-3.10/1#97*

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

April 03, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #40

Enclosed are the results of analyses for samples received by the laboratory on 03/28/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	03/28/2019	Sampling Date:	03/27/2019
Reported:	04/03/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS		

Sample ID: WARREN UNIT #40 WALL #1 (H901169-01)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 80.1 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	03/28/2019	Sampling Date:	03/27/2019
Reported:	04/03/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS		

Sample ID: WARREN UNIT #40 WALL #2 (H901169-02)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 78.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	03/28/2019	Sampling Date:	03/27/2019
Reported:	04/03/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS		

Sample ID: WARREN UNIT #40 FLOOR #1 (H901169-03)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

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	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Conoco Phillips - Hobbs
 JUSTIN WRIGHT
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	03/28/2019	Sampling Date:	03/27/2019
Reported:	04/03/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS		

Sample ID: WARREN UNIT #40 FLOOR #2 (H901169-04)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips P.O. #: _____
 Project Manager: Justin Wright Company: Conoco Phillips
 Address: _____ Attn: Dave
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Wayven West 7 H 4/D City: _____ State: _____ Zip: _____
 Project Location: Hobbs Phone #: _____ Fax #: _____
 Sampler Name: Tasha FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	Remarks	No	Add'l Phone #:
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:							
<u>H901169</u>	<u>Cherton West 7/D Well #1</u>			<input checked="" type="checkbox"/>									<u>3/27/15</u>	<u>9:00am</u>	<u>Cherton</u>		
	<u>" " Floor #1</u>			<input checked="" type="checkbox"/>									<u>3/27/15</u>	<u>9:00am</u>	<u>D. Tex</u>		
	<u>" " Floor #2</u>			<input checked="" type="checkbox"/>									<u>3/27/15</u>	<u>9:20am</u>	<u>FPH</u>		

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Sampler Relinquished: _____ Date: 3/28/15 Received By: _____
 Time: 12:15 Relinquished By: [Signature]
 Date: _____ Time: _____

Delivered By: (Circle One) Temp. Sample Condition
 Cooler Intact Yes No
 Sampler - UPS - Bus - Other: 440/1497 Checked By: [Signature]

* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

ATTACHMENT D
Laboratory Analytical Results



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northwest over formerly impacted surface area.	1
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northeast over formerly impacted surface area at lease pad.	2
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View over formerly impacted surface area and injection line, facing southeast.	3
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View of the former release area and wellhead, facing southwest.	4
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View from the east side of the former release area, facing northwest.	5
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020

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 201804

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 201804
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	3/29/2023