TETRA TECH

May 10, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Subject: **Remediation Report and Closure Request**
ConocoPhillips
State FTG #3 Stuffing Box Release
Unit Letter B, Section 36, Township 17 South, and Range 33 East
Lea County, New Mexico
1RP-5272
Incident ID NCH1834758704

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to evaluate a release and ensuing remediation that occurred at the State FTG #3 well pad (API No. 30-025-01424). The ConocoPhillips State FTG #3 well is located approximately 9.6 miles southeast of Maljamar in Lea County, New Mexico (Figures 1 and 2). The well is located in the Public Land Survey System (PLSS) Unit Letter B, Section 36, Township 17 South, and Range 33 East. According to the NMOCD, the well was plugged on January 3, 2020. The coordinates of the release area (Site) are 32.7957687°, -103.614502.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on November 7, 2018 a stuffing box leak at the State FTG #3 well resulted in a release of 5 barrels (bbls) of oil and 5 bbls produced water. The release affected an area reported as 36-feet (ft) x 30-ft x 10-inches. The release occurred during an in-progress remediation of another on-pad release (1RP-5151) associated with the State FTG #3. The 1RP-5151 incident (nOY1822157537) is included in an Agreed Compliance Order-Releases (ACO-R) between ConocoPhillips and the NMOCD signed on May 7 and 9, 2019, respectively. A Closure Report has been submitted to the NMOCD for the 1RP-5151 incident (nOY1822157537) under separate cover.

The 1RP-5151 release was wholly contained on the caliche lease pad (Figure 3), and excavation of the release footprint was in process when the 1RP-5272 incident occurred. Thus. the entirety of the 1RP-5272 release extent was contained within the existing excavation. During initial response actions, 5 bbls of fluid were recovered. Notice was given to the New Mexico Oil Conservation Division (NMOCD) on November 14, 2018. The NMOCD assigned the release the Remediation Permit (RP) number 1RP-5272.

SITE CHARACTERIZATION

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 is one water well within an 800-m radius of the Site. However, no groundwater data was available for the well. There are 5 water wells located within a 1600-m radius of the site. The average depth to groundwater is 147 ft below ground surface (bgs). The minimum depth to groundwater is 135 ft bgs. The site characterization data is shown in Appendix B.

REGULATORY FRAMEWORK

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 depth to groundwater at the Site and the on-pad location, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride	20,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

INITIAL RESPONSE AND REMEDIAL ACTIVITIES

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin remediation of the impacted area in 2018. As mentioned, this 1RP-5272 release footprint was wholly contained within the footprint of a preexisting excavation associated with 1RP-5151. At the time of the 1RP-5272 release, the existing excavation floor was at approximately 2 ft bgs. Following excavation activities associated with the 1RP-5151 release, ConocoPhillips collected 11 confirmation samples (Sample #1 through Sample #11) from the floor of the excavated area on October 4, 2018 and submitted them to Cardinal Laboratories in Hobbs, NM to be analyzed for TPH by EPA method 8015M, BTEX by EPA method 8021B, and chlorides by EPA method SM4500Cl-B. Subsequently, on November 7, 2018, the stuffing box leak associated with the 1RP-5272 occurred in the northern portion of the previously excavated area. The approximate release extent is shown on Figure 3.

As the initial confirmation sampling analytical results were above Site RRALs at multiple locations, the excavation floor of the 1RP-5151 release was deepened to 3 ft bgs. The footprint of the 1RP-5272 release was further excavated an additional foot to 4 ft bgs, based upon visual observations. Confirmation samples were collected from 8 wall locations and 3 floor locations on April 1, 2019 and sent to Cardinal Laboratories for analysis. Confirmation sampling of the remediated area was conducted for verification of remedial activities where each sidewall and floor sample was representative of approximately 200 square feet. Figure 4 depicts the existing excavation, release extent, final excavation extent, and final confirmation sampling locations.

Final confirmation wall and floor sample analytical results were below Site RRALs for all constituents at all locations (Table 1). Copies of the laboratory analytical reports for both the October 2018 and April 2019 sampling events are included in Appendix C. The approximate volume of material remediated is 80 cubic yards. The excavated soil was taken to an NMOCD approved facility for disposal and the excavated area was backfilled with clean soil.

VISUAL SITE INSPECTION

At the request of ConocoPhillips, on June 4, 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. Photographic documentation from the visual assessment (with stamped GPS coordinates) is included within Appendix D. A list of field observations describing the Site follow:

- The State FTG #3 well has been plugged and abandoned, as reported by NMOCD.
- At the time of the inspection, a dry well marker was being installed at the plugged well location.
- No evidence of staining was noted at the point of release or on the surrounding caliche pad.
- The caliche well pad had not yet been reclaimed.

CONCLUSION

Based on the documented remediation work performed at the Site, confirmation sampling results and recent visual inspection, COP requests closure for this release. ConocoPhillips has completed remediation at the release site. This final closure report details the remediation activities and the results of the confirmation sampling. If you have any questions concerning the, the remediation work, or confirmation sampling for the Site, please call me at (512) 338-2861. The final C-141 form is enclosed in Appendix A.

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

Sincerely,

Christian M. Llull
Project Manager
Tetra Tech, Inc.

LIST OF ATTACHMENTS

Figures:

Figure 1 – Site Location Map
Figure 2 – Topographic Map
Figure 3 – Approximate Release Extent
Figure 4 – Remediation Extent and Confirmation Sample Locations

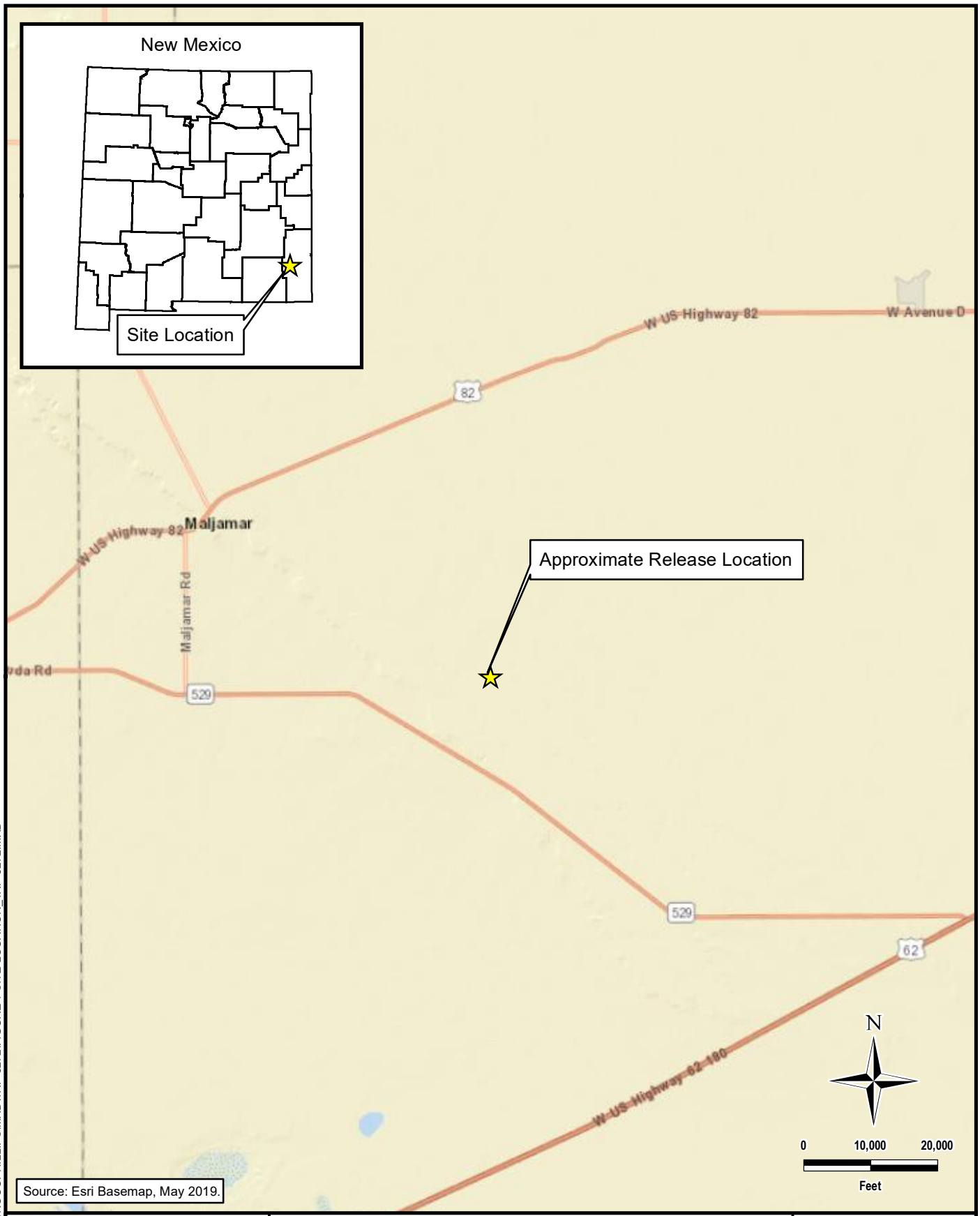
Tables:

Table 1 – Summary of Analytical Results – Confirmation Sampling

Appendices:

Appendix A – C-141 Forms
Appendix B – Site Characterization Data
Appendix C – Laboratory Analytical Data
Appendix D – Photographic Documentation

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-5272\FIGURE 1 SITE LOCATION_1RP-5272.MXD

TETRA TECH

www.tetratech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

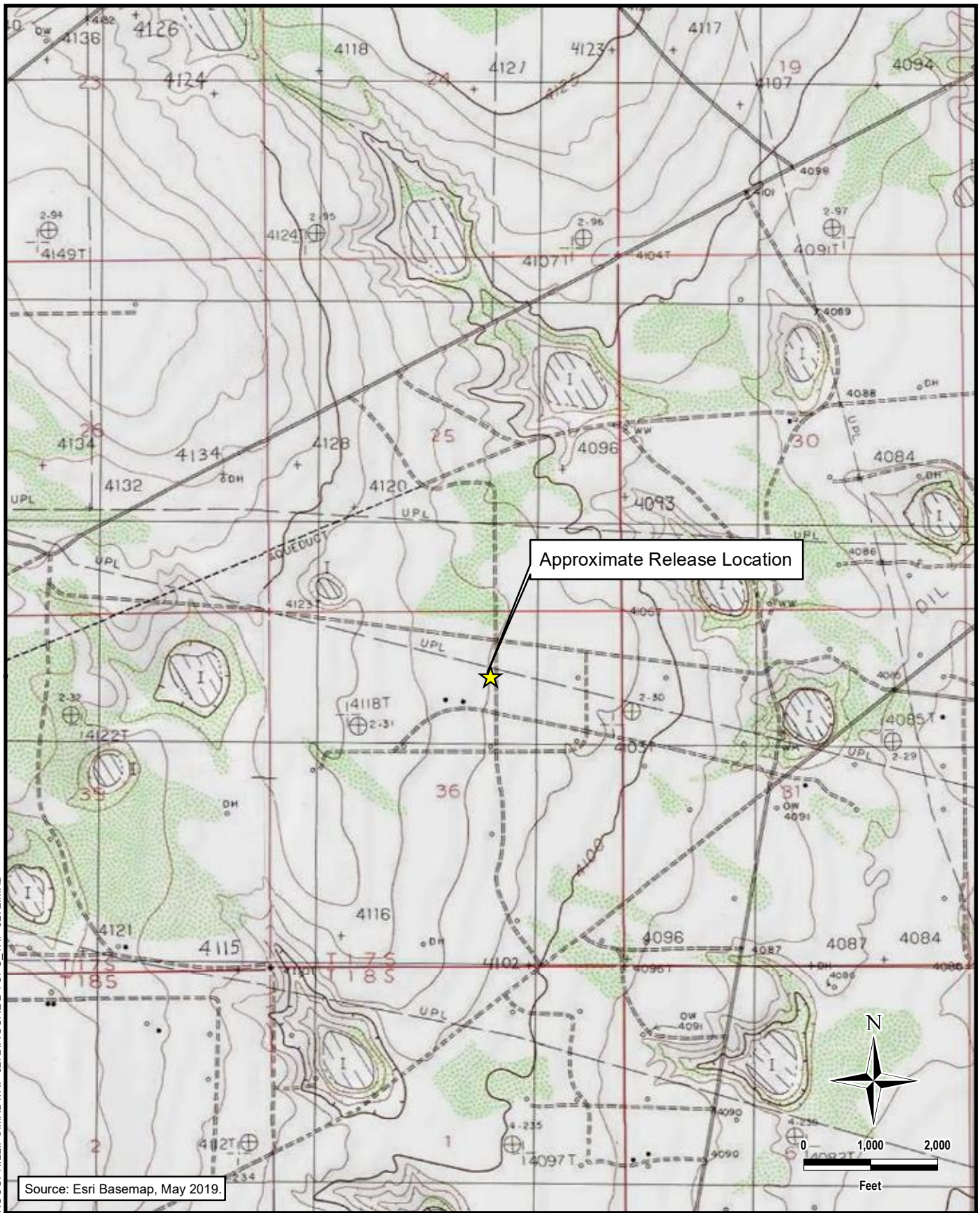
CONOCOPHILLIPS

1RP-5272
(32.795781° -103.614442°)
LEA COUNTY, NEW MEXICO

STATE FTG #3 STUFFING BOX RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-02377
DATE:	MARCH 30, 2021
DESIGNED BY:	AAM

Figure No.
1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-5272\FIGURE 2 TOPO_1RP-5272.MXD

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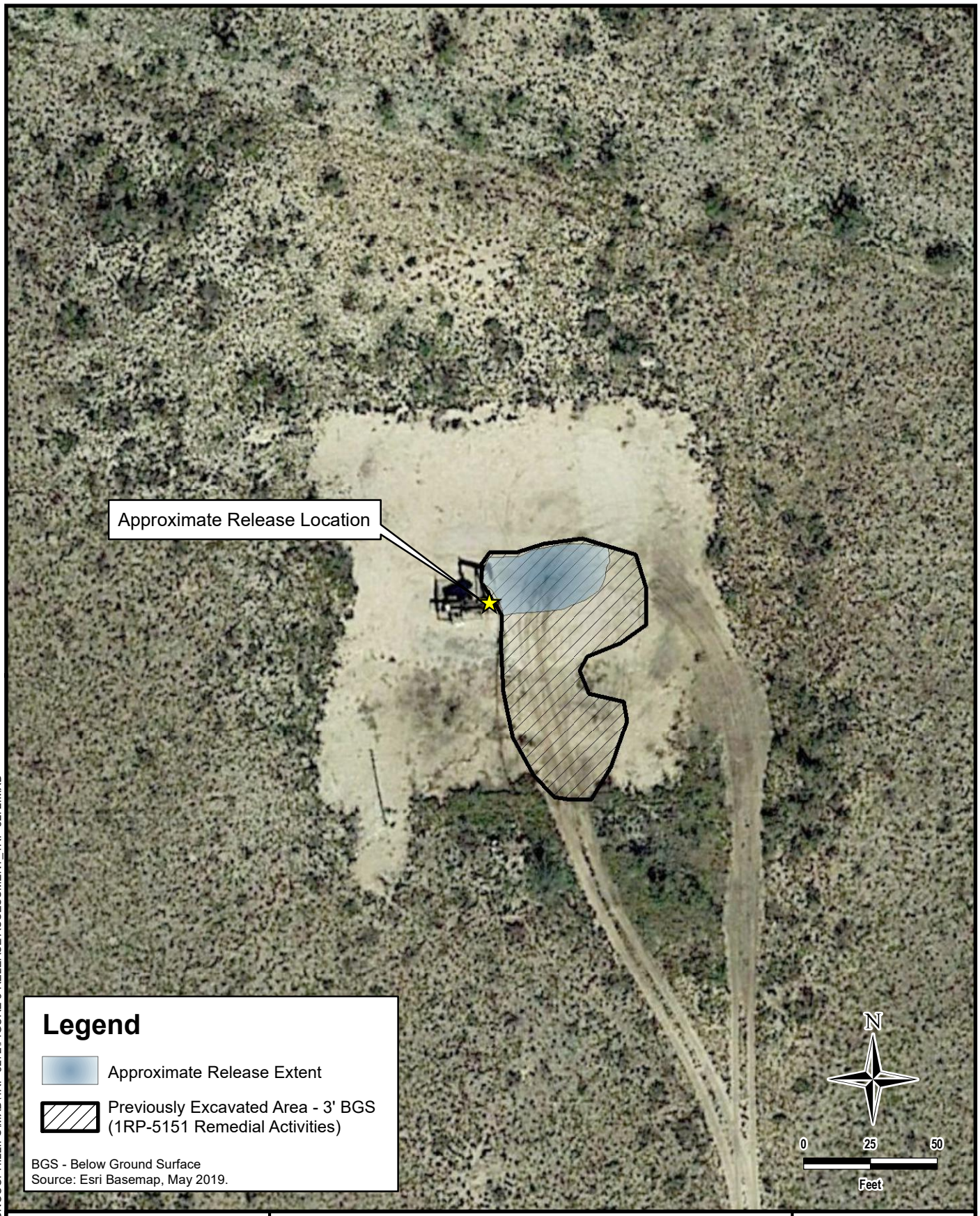
CONOCOPHILLIPS

1RP-5272
(32.795781° -103.614442°)
LEA COUNTY, NEW MEXICO

STATE FTG #3 STUFFING BOX RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02377
DATE:	MARCH 30, 2021
DESIGNED BY:	AAM

Figure No.
1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-5272\FIGURE 3 RELEASE ASSESSMENT_1RP-5272.MXD

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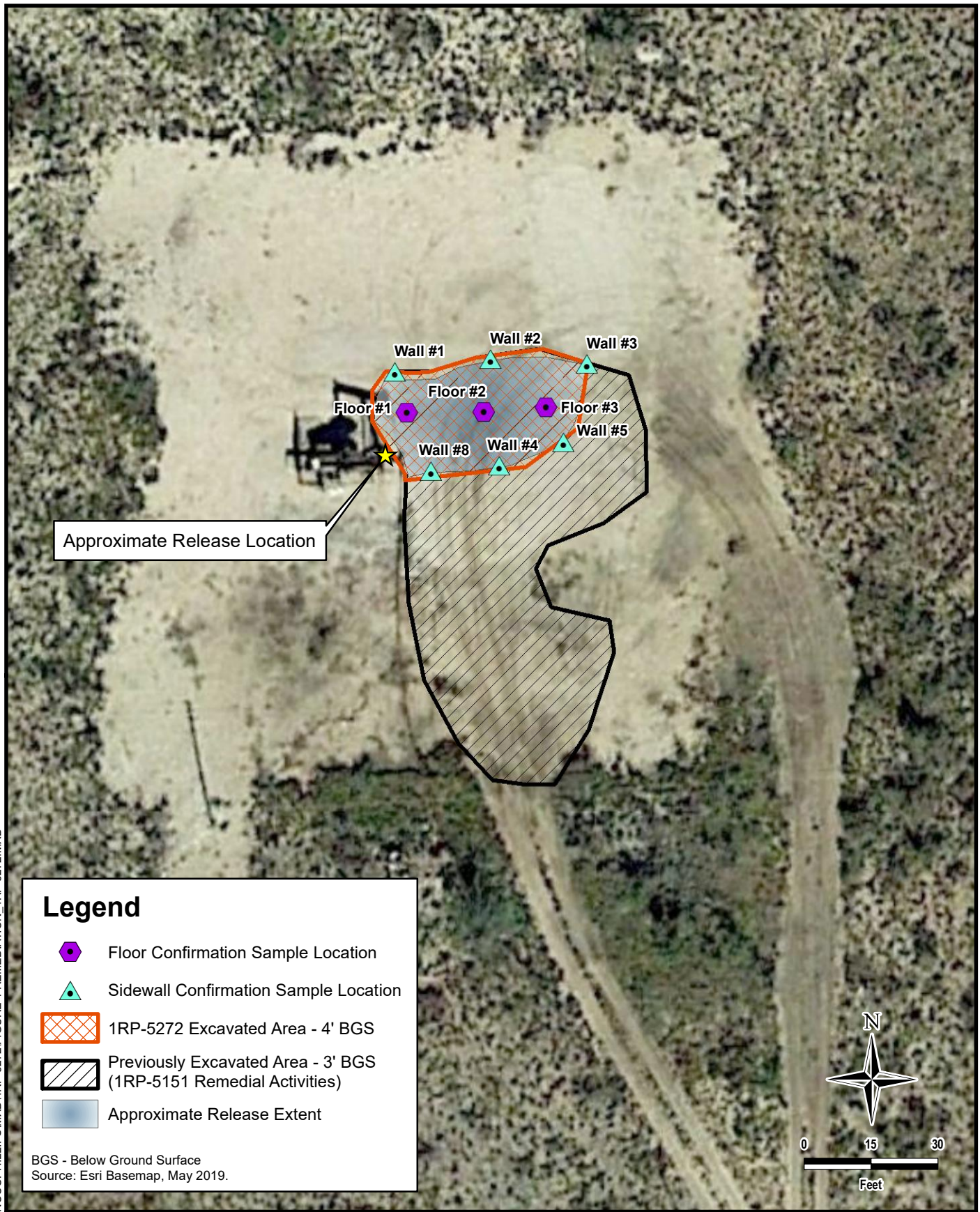
CONOCOPHILLIPS

1RP-5272
(32.795781° -103.614442°)
LEA COUNTY, NEW MEXICO

STATE FTG #3 STUFFING BOX RELEASE
APPROXIMATE RELEASE EXTENT

PROJECT NO.:	212C-MD-02377
DATE:	MARCH 30, 2021
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-5272\FIGURE 4 REMEDIATION_1RP-5272.MXD

TETRA TECH

www.tetratech.com

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Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

1RP-5272
(32.795781° -103.614442°)
LEA COUNTY, NEW MEXICO

STATE FTG #3 STUFFING BOX RELEASE
REMEDIATION EXTENT AND CONFIRMATION SAMPLE LOCATIONS

PROJECT NO.:	212C-MD-02377
DATE:	MARCH 30, 2021
DESIGNED BY:	AAM

Figure No.
4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLES
1RP-5151 1RP-5272
CONOCOPHILLIPS
State FTG #3
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Chloride[1]		BTEX[2]										TPH[3]							
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH	
														C_6 - C_{10}		C_{10} - C_{28}		C_{28} - C_{36}		C_6 - C_{35}	
		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	mg/kg	Q
Wall #1	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #2	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #3	04/01/19	< 16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #4	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #5	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #6	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #7	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Wall #8	04/01/19	< 16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #1	04/01/19	16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #2	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #3	04/01/19	16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #4	04/01/19	16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #5	04/01/19	16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #6	04/01/19	32		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #7	04/01/19	16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	
Floor #8	04/01/19	16		< 0.05000		< 0.05000		< 0.05000		< 0.15000		< 0.30000		< 10.0		< 10.0		< 10.0		< 30.0	

NOTES:

in. Inches
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline Range Organics
DRO Diesel Range Organics
ORO Oil Range Organics
1 EPA Method SM4500Cl-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 Department

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

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

Incident ID	NCH1834758704
District RP	1RP-5272
Facility ID	
Application ID	pCH1834759139

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name Justin Wright	Contact Telephone +1-575-631-9092
Contact email Justin.Wright@conocophillips.com	Incident # NCH1834758704 STATE F TG #003 @ 30-025-01424
Contact mailing address 29 Vacuum Complex Lane, Lovington	

Location of Release Source

Latitude 32.79757687 Longitude -103.614502

(NAD 83 in decimal degrees to 5 decimal places)

Site Name State F TG #003	Site Type Oil Well
Date Release Discovered 11/7/2018	API# *(if applicable)* 30-025-01424

Unit Letter	Section	Township	Range	County
B	36	17S	33E	Lea

Surface Owner: [X] State [☒] Federal [ ] Tribal [ ] Private (*Name:* _____)

State Minerals

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

[☒] Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 3
[☒] Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	[ ] Yes [ ] No
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release – Stuffing box leak

Dimensions – 36 x 30 x 10" – soil porosity .25 – soil absorption .25 – Spill contained on well pad
Well production per day is 5 BO and 3 BPW

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NCH1834758704
District RP	1RP-5272
Facility ID	
Application ID	pCH1834759139

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Cullen Rosine Title: HSE Specialist

Signature: Cullen Rosine Date: 11/14/2018

email: Cullen.j.rosine@conocophillips.com Telephone: 973-727-4779

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

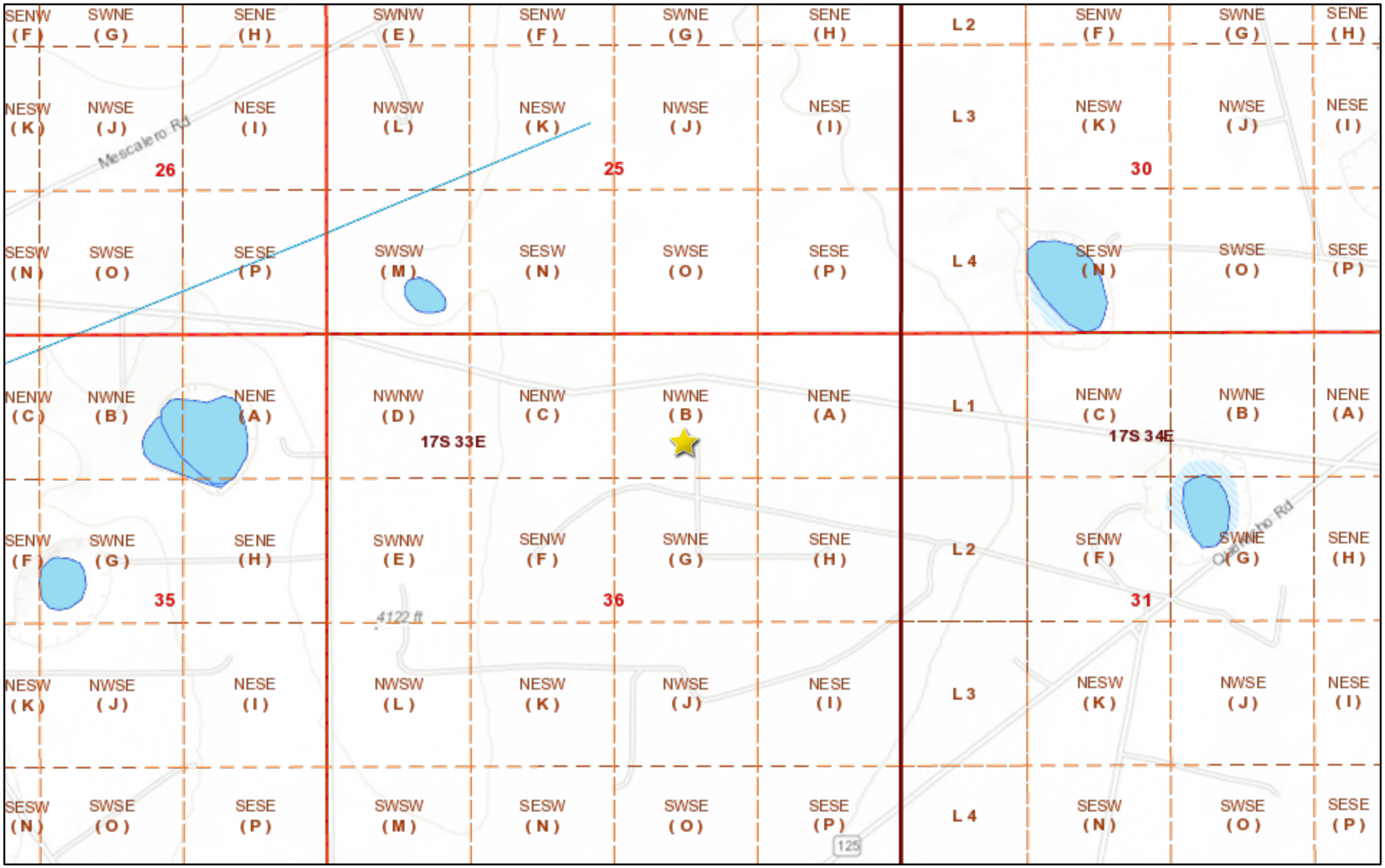
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ATTACHMENT B
Site Characterization Data

1RP-5272 Water Bodies



4/30/2021, 3:10:51 PM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Override 1

OCD District Offices

PLSS First Division

PLSS Second Division

PLSS Townships

OSE Water-bodies

PLJV Probable Playas

OSE Streams

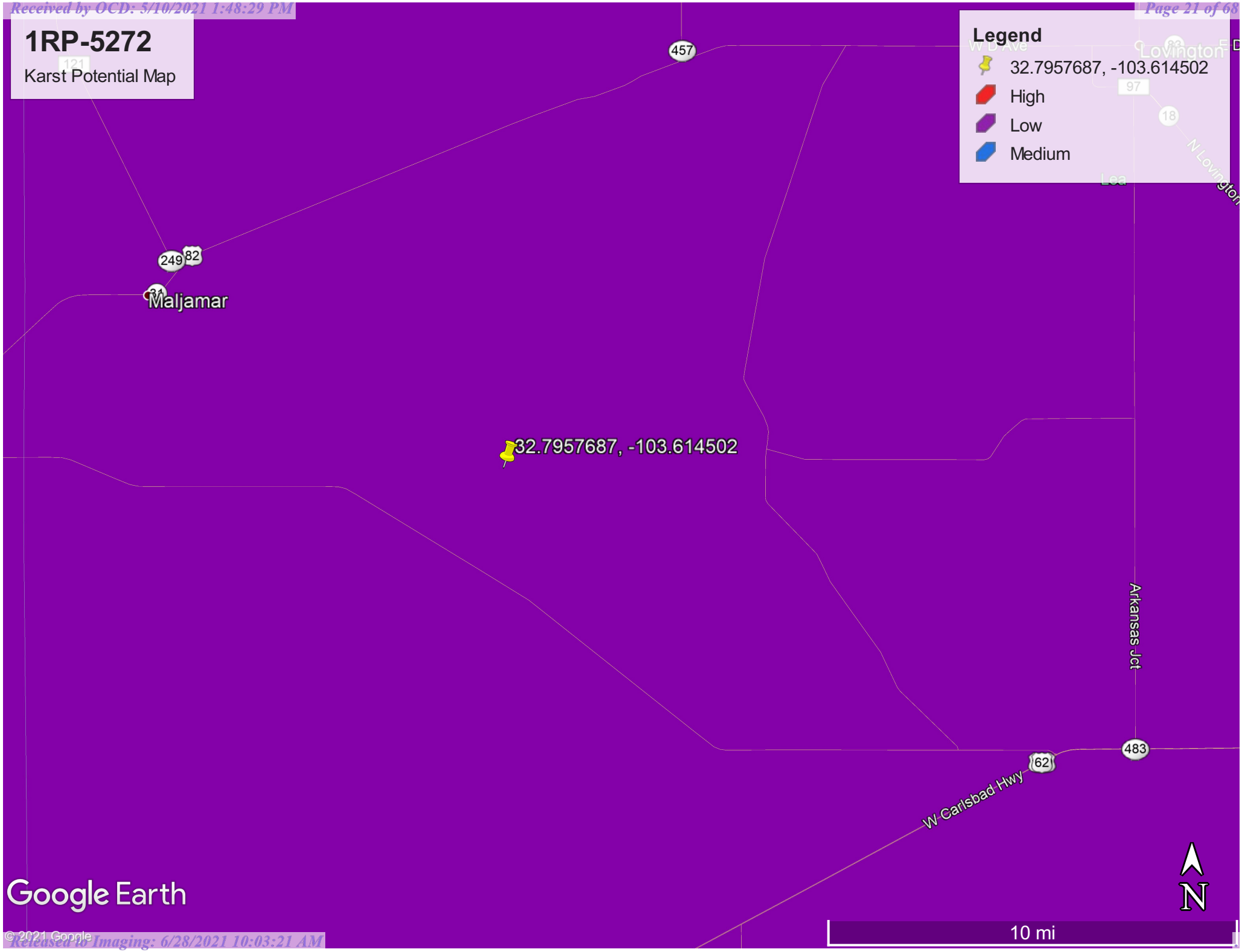
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

1RP-5272

Karst Potential Map



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 Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 02687		L	LE		2	2	36	17S	33E	630137	3629598*	418			
L 01695	R	L	ED	4	4	2	25	17S	33E	630220	3630704*	1303	230	137	93
L 01697 POD2		L	LE	4	4	3	30	17S	34E	630986	3629911*	1322	240	140	100
L 01695 POD2		L	LE	3	3	1	30	17S	34E	630346	3630669	1325	240	156	84
L 04734		L	LE		3	3	31	17S	34E	630555	3628397*	1373	186	135	51
L 01696 S3		L	LE	2	4	3	30	17S	34E	630986	3630111*	1397	232	168	64

Average Depth to Water: **147 feet**
Minimum Depth: **135 feet**
Maximum Depth: **168 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 629730.948 **Northing (Y):** 3629495.313 **Radius:** 1600

***UTM location was derived from PLSS - see Help**

ATTACHMENT C
Laboratory Analytical Results

CARDINAL Laboratories

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

October 09, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: STATE FTG #3

Enclosed are the results of analyses for samples received by the laboratory on 10/05/18 8:35.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 1 (H802830-01)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	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	**6000**	16.0	10/08/2018	ND	448	112	400	0.00	

TPH 8015M mg/kg Analyzed By: MS **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**2230**	10.0	10/08/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**1130**	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane *87.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *163 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 2 (H802830-02)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**432**	16.0	10/08/2018	ND	448	112	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	10/08/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**910**	10.0	10/08/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**324**	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane *84.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *135 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 3 (H802830-03)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**704**	16.0	10/08/2018	ND	448	112	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**1410**	10.0	10/08/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**430**	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane *87.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *159 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 4 (H802830-04)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	10/09/2018	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	10/05/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**64.4**	10.0	10/05/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**13.2**	10.0	10/05/2018	ND					

Surrogate: 1-Chlorooctane *83.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *85.1 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 5 (H802830-05)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**656**	16.0	10/09/2018	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**1820**	10.0	10/08/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**438**	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane *88.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *154 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 6 (H802830-06)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	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	**304**	16.0	10/09/2018	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	10/05/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**170**	10.0	10/05/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**34.8**	10.0	10/05/2018	ND					

Surrogate: 1-Chlorooctane *88.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *98.3 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 7 (H802830-07)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	**0.279**	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	**1.20**	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	**2.13**	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	**3.62**	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *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	**8000**	16.0	10/09/2018	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**56.1**	50.0	10/05/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**6010**	50.0	10/05/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**1540**	50.0	10/05/2018	ND					

Surrogate: 1-Chlorooctane *106 %* *41-142*

Surrogate: 1-Chlorooctadecane *197 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 8 (H802830-08)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**256**	16.0	10/09/2018	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	10/05/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**180**	10.0	10/05/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**47.8**	10.0	10/05/2018	ND					

Surrogate: 1-Chlorooctane *88.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *97.3 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 9 (H802830-09)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	10/09/2018	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	10/05/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	<10.0	10.0	10/05/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	10/05/2018	ND					

Surrogate: 1-Chlorooctane *88.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *85.2 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 10 (H802830-10)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	**0.097**	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	**0.210**	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	**0.307**	0.300	10/05/2018	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	**976**	16.0	10/09/2018	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**18.3**	10.0	10/08/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**3000**	10.0	10/08/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**759**	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *220 %* *37.6-147*

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CARDINAL Laboratories

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:	10/05/2018	Sampling Date:	10/04/2018
Reported:	10/09/2018	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SAMPLE # 11 (H802830-11)

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	10/05/2018	ND	2.21	111	2.00	3.55	
Toluene*	<0.050	0.050	10/05/2018	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	10/05/2018	ND	2.15	107	2.00	3.38	
Total Xylenes*	<0.150	0.150	10/05/2018	ND	6.16	103	6.00	3.74	
Total BTEX	<0.300	0.300	10/05/2018	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	**1020**	16.0	10/09/2018	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	10/08/2018	ND	189	94.3	200	16.7	
DRO >C10-C28*	**891**	10.0	10/08/2018	ND	199	99.4	200	6.62	
EXT DRO >C28-C36	**668**	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane *87.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *115 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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, Lab Director/Quality Manager

CARDINAL LABORATORIES

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

Page____ of ____

Company Name:	ConocoPhillips
Project Manager:	Justin Wright
Address:	
City:	Hobbs
State:	NM
Zip:	88240
Phone #:	575-631-9092
Fax #:	
Project #:	
Project Owner:	
Project Name:	State FTG #3
Project Location:	Lea County, NM
Sampler Name:	Justin Wright

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH - Extended	BTEX	Benzene	Chlorides
H802830																		
1	Sample #1	G				✓					✓		10-4-18	7:02	✓	✓	✓	✓
2	Sample #2	G				✓					✓		10-4-18	7:08	✓	✓	✓	✓
3	Sample #3	G				✓					✓		10-4-18	7:12	✓	✓	✓	✓
4	Sample #4	G				✓					✓		10-4-18	7:17	✓	✓	✓	✓
5	Sample #5	G				✓					✓		10-4-18	7:20	✓	✓	✓	✓
6	Sample #6	G				✓					✓		10-4-18	7:23	✓	✓	✓	✓
7	Sample #7	G				✓					✓		10-4-18	7:27	✓	✓	✓	✓
8	Sample #8	G				✓					✓		10-4-18	7:32	✓	✓	✓	✓
9	Sample #9	G				✓					✓		10-4-18	7:34	✓	✓	✓	✓
10	Sample #10	G				✓					✓		10-4-18	7:38	✓	✓	✓	✓

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 10-5-18	Received By:	Tamara Oldaker
Relinquished By:	Time: 8:35	Received By:	
	Date:		
	Time:		

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

Delivered By: (Circle One)	Temp.	Sample Condition: Cool	Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	21°C #97	☑ Yes ☐ No	☑ Yes ☐ No	T.O.

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

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
Address:	
City:	Hobbs
State:	NM
Zip:	88240
Phone #:	575-631-9098
Fax #:	
Project #:	
Project Owner:	
Project Name:	State FT6 #3
Project Location:	Lea County, NM
Sampler Name:	Justin Wright

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	TPH-Extended	Chlorides	BTEX	Benzene
H802830-11	Sample #11	G				✓					✓		10/4/18	7:42	✓	✓	✓	✓

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

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 10-5-18	Received By:	
	Time: 8:35		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)	Temp.	Sample Condition Cool	Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	2.1°C #197	☐ Yes ☐ No	☑ Yes ☐ No	T.O.

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

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

CARDINAL Laboratories

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

April 05, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: STATE FTG #3

Enclosed are the results of analyses for samples received by the laboratory on 04/02/19 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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 1 (H901206-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.2 %* *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	**32.0**	16.0	04/04/2019	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	04/03/2019	ND	166	83.2	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	212	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *80.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *78.5 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 1 (H901206-02)

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	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.4 %* *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	**16.0**	16.0	04/04/2019	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	04/03/2019	ND	166	83.2	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	212	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *79.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *76.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 2 (H901206-03)

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	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.0 %* *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	**32.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *81.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *77.2 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 2 (H901206-04)

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	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.2 %* *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	**32.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *88.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *86.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 3 (H901206-05)

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	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.6 %* *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	<16.0	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *89.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *83.6 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 3 (H901206-06)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.5 %* *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	**16.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *88.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *83.1 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 4 (H901206-07)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2019	ND	2.16	108	2.00	2.28	
Toluene*	<0.050	0.050	04/03/2019	ND	2.00	99.9	2.00	0.933	
Ethylbenzene*	<0.050	0.050	04/03/2019	ND	2.07	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	04/03/2019	ND	6.37	106	6.00	0.648	
Total BTEX	<0.300	0.300	04/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.2 %* *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	**32.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *86.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *81.5 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 4 (H901206-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.3 %* *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	**16.0**	16.0	04/04/2019	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	04/03/2019	ND	170	85.0	200	0.823	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	204	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *80.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *77.8 %* *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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 5 (H901206-09)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.5 %* *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	04/04/2019	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	04/03/2019	ND	170	85.0	200	0.823	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	204	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *75.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *74.7 %* *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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 5 (H901206-10)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**16.0**	16.0	04/04/2019	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	04/03/2019	ND	170	85.0	200	0.823	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	204	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *82.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *79.0 %* *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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 6 (H901206-11)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.8 %* *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	**32.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *59.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *59.1 %* *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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 6 (H901206-12)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.0 %* *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	**32.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *77.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *73.2 %* *37.6-147*

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CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 7 (H901206-13)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *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	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *83.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *79.1 %* *37.6-147*

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CARDINAL Laboratories

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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 7 (H901206-14)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *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	**16.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *84.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *79.9 %* *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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: WALL # 8 (H901206-15)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.5 %* *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	<16.0	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *81.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *77.0 %* *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:	04/02/2019	Sampling Date:	04/01/2019
Reported:	04/05/2019	Sampling Type:	Soil
Project Name:	STATE FTG #3	Sampling Condition:	Cool & Intact
Project Number:	STATE FTG 3	Sample Received By:	Tamara Oldaker
Project Location:	BUCKEYE		

Sample ID: FLOOR # 8 (H901206-16)

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	04/04/2019	ND	2.11	105	2.00	5.74	
Toluene*	<0.050	0.050	04/04/2019	ND	2.13	106	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/04/2019	ND	2.14	107	2.00	2.07	
Total Xylenes*	<0.150	0.150	04/04/2019	ND	6.37	106	6.00	2.81	
Total BTEX	<0.300	0.300	04/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.5 %* *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	**16.0**	16.0	04/04/2019	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	04/03/2019	ND	175	87.5	200	9.77	
DRO >C10-C28*	<10.0	10.0	04/03/2019	ND	157	78.7	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	04/03/2019	ND					

Surrogate: 1-Chlorooctane *84.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *80.8 %* *37.6-147*

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

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

Cardinal Laboratories *=Accredited Analyte

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
Project Manager:	Justin Wright
Address:	Justin.Wright@ConocoPhillips.com *
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-9092 Fax #:
Project #:	State FTG 3 Project Owner:
Project Name:	State FTG #3
Project Location:	Buckeye
Sampler Name:	Justin Wright

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Chloride	TPH	BTEX	Benzine									
H901206 1	Wall #1					✓							4/1/19	9:05	✓	✓	✓	✓	✓								
2	Floor #1					✓							4/1/19	9:12	✓	✓	✓	✓									
3	Wall #2					✓							4/1/19	9:20	✓	✓	✓	✓									
4	Floor #2					✓							4/1/19	9:24	✓	✓	✓	✓									
5	Wall #3					✓							4/1/19	9:29	✓	✓	✓	✓									
6	Floor #3					✓							4/1/19	9:34	✓	✓	✓	✓									
7	Wall #4					✓							4/1/19	9:41	✓	✓	✓	✓									
8	Floor #4					✓							4/1/19	9:44	✓	✓	✓	✓									
9	Wall #5					✓							4/1/19	9:50	✓	✓	✓	✓									
10	Floor #5					✓							4/1/19	9:53	✓	✓	✓	✓									

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

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 4-2-19	Received By:	
	Time: 11:55		
Relinquished By:	Date:	Received By:	
	Time:		

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

Delivered By: (Circle One)	Temp.	Sample Condition Cool	Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	-1.7° #97	☑ Yes ☐ No	☑ Yes ☐ No	TO

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

CARDINAL LABORATORIES

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

Page_____ of _____

Company Name:	Conoco
Project Manager:	Justin Wright
Address:	Justin.Wright@ConocoPhillips.com *
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-9092 Fax #:
Project #:	State FTG 3 sal Project Owner:
Project Name:	State FTG 3
Project Location:	Buckeye
Sampler Name:	Justin Wright

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chloride	TPH	B-Tex	Benzine
H901206																		
11	Wall #6					✓							4/1/19	10:00	✓	✓	✓	✓
12	Floor #6					✓							4/1/19	10:07	✓	✓	✓	✓
13	Wall #7					✓							4/1/19	10:12	✓	✓	✓	✓
14	Floor #7					✓							4/1/19	10:17	✓	✓	✓	✓
15	Wall #8					✓							4/1/19	10:24	✓	✓	✓	✓
16	Floor #8					✓							4/1/19	10:30	✓	✓	✓	✓

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

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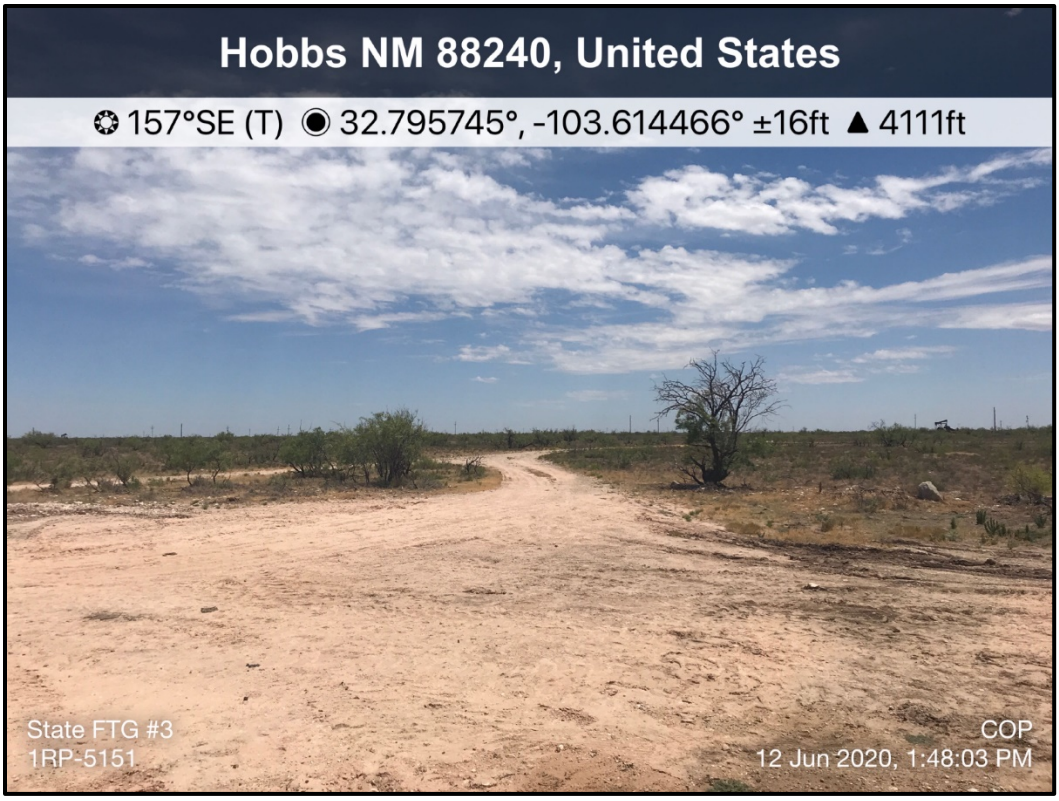
Sampler Relinquished:	Date: 4-2-19	Received By:	
	Time: 11:55		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)	Temp.	Sample Condition Cool	Intact	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	-1.7°C #97	☐ Yes ☐ No	☑ Yes ☐ No	TO	

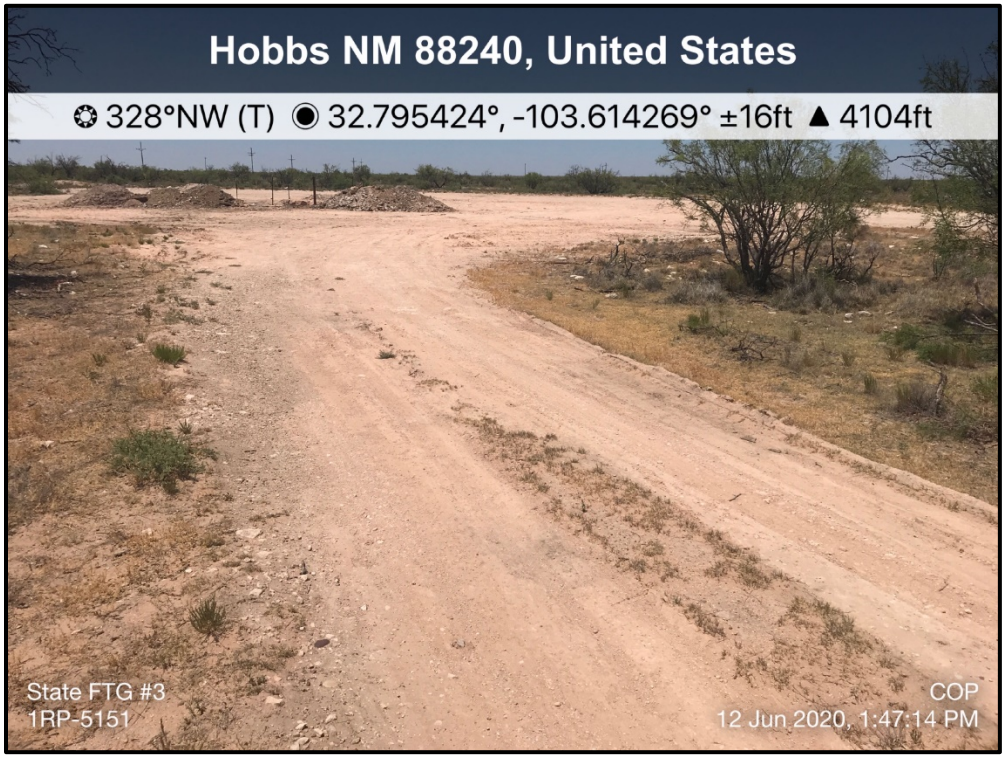
Phone Result:	☐	No	Add'l Phone #:
Fax Result:	☐	No	Add'l Fax #:
REMARKS:			

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

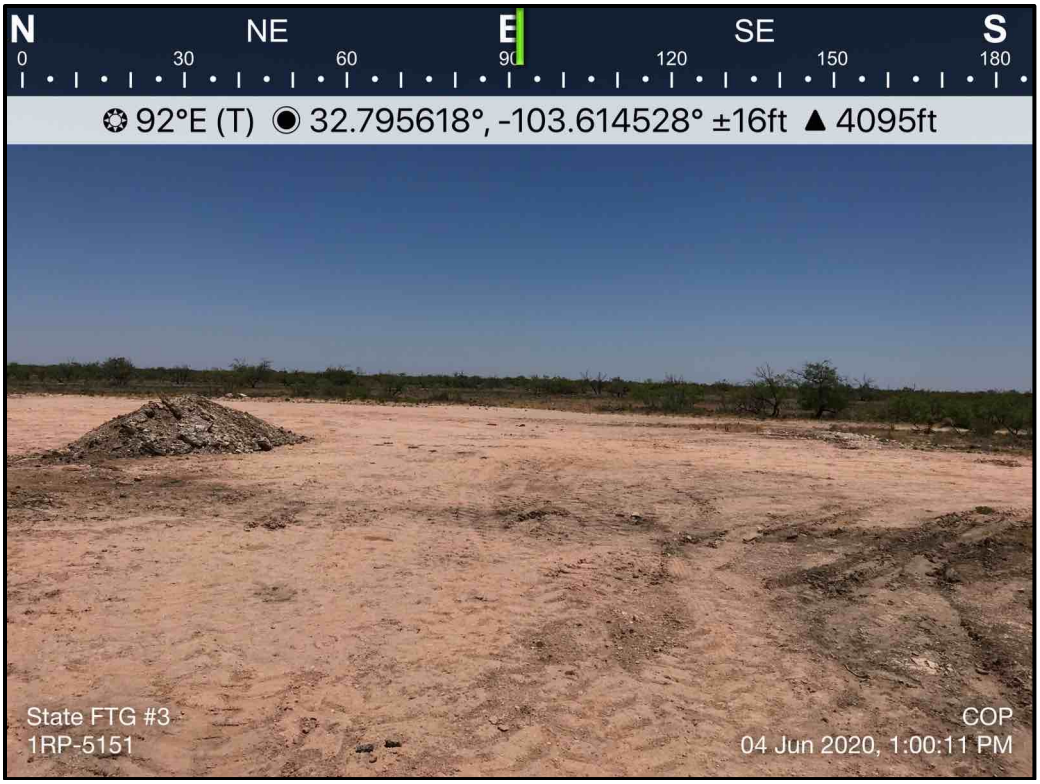
ATTACHMENT D
Photographic Documentation



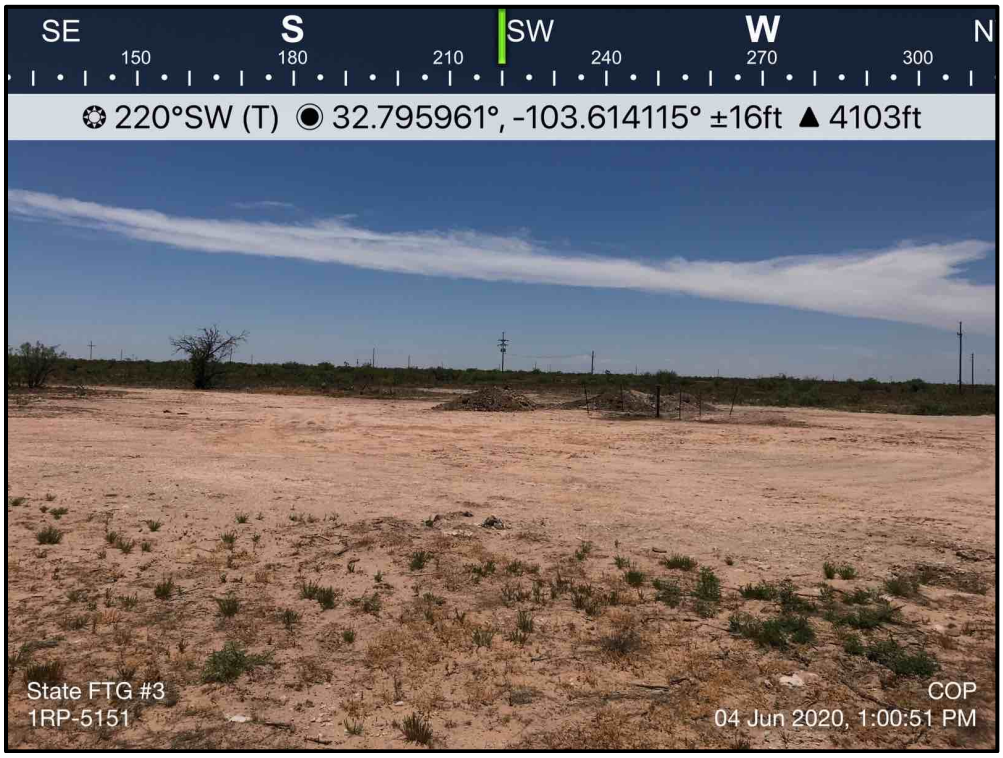
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View facing south of from decommissioned wellhead over formerly impacted area.	1
	SITE NAME	State FTG #3 Stuffing Box Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View facing northwest from entrance road with dry well marker in rear.	2
	SITE NAME	State FTG #3 Stuffing Box Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View facing east over formerly impacted area. Visible stockpiles from well abandonment.	3
	SITE NAME	State FTG #3 Stuffing Box Release	6/4/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View southwest over formerly impacted area of well pad. Stockpiles from P&A activities.	4
	SITE NAME	State FTG #3 Stuffing Box Release	6/4/2020

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NCH1834758704
District RP	1RP-5272
Facility ID	
Application ID	pCH1834759139

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name Justin Wright	Contact Telephone +1-575-631-9092
Contact email Justin.Wright@conocophillips.com	Incident # NCH1834758704 STATE F TG #003 @ 30-025-01424
Contact mailing address 29 Vacuum Complex Lane, Lovington	

Location of Release Source

Latitude 32.79757687 Longitude -103.614502

(NAD 83 in decimal degrees to 5 decimal places)

Site Name State F TG #003	Site Type Oil Well
Date Release Discovered 11/7/2018	API# *(if applicable)* 30-025-01424

Unit Letter	Section	Township	Range	County
B	36	17S	33E	Lea

Surface Owner: [X] State [☒] Federal [ ] Tribal [ ] Private (*Name:* _____)

State Minerals

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

[☒] Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 3
[☒] Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	[ ] Yes [ ] No
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release – Stuffing box leak

Dimensions – 36 x 30 x 10" – soil porosity .25 – soil absorption .25 – Spill contained on well pad
Well production per day is 5 BO and 3 BPW

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NCH1834758704
District RP	1RP-5272
Facility ID	
Application ID	pCH1834759139

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Cullen Rosine Title: HSE Specialist

Signature: Cullen Rosine Date: 11/14/2018

email: Cullen.j.rosine@conocophillips.com Telephone: 973-727-4779

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 27295
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/28/2021