SITE INFORMATION

Report Type: Work Plan NAPP2103564128								
General Site Info		keport Type. w	IOIK FIAII INAFFZIUS	304120				
Site:		EVGSALL0546-001	Flowline Release					
Company:		ConocoPhillips						
Section, Towns	hin and Pango	Unit Letter O	Sec. 32 T 17S	R 35E				
Lease Number:	nip and Kange	N/A	Sec. 32 173	K 35E				
		Lea						
County: GPS:		Lea	32.786404	-103.478239				
GFS. Surface Owner:		State	32.788404	-103.478239				
Mineral Owner:		N/A						
			ye (NM238/Buckeye Rd.). Head	aast on Buckovo Pd. for 1.17				
Directions:			to dirt road. Head south for 0.43					
		Head southeast for	0.59 miles. Arrive at location.					
		_						
Release Data:								
Date Released:		2/4/2021						
Type Release:		Produced Water						
Source of Contar	mination:	Flowline Leak	wline Leak					
Fluid Released:		29.9 bbls						
Fluids Recovered	d:	20 bbls						
Official Commu	nication:							
Name:	Sam Widmer		Christian Llull	Ryan Mann				
Company:	Conoco Phillips -	RMR	Tetra Tech	New Mexico State Land Office				
Address:	935 N. Eldridge P	kwv.	8911 North Capital of Texas Hwy	2827 N. Dal Paso Suite 117				
	Jose in Linning - I		Building 2, Suite 2310	Hobbs, NM 88240				
City:	Houston, Texas 7	7079	Austin, Texas	Office: (575) 392-3697				
Phone number:		1019						
	281-206-5298		(512) 338-2861	Cell: (505) 699-1989				
Fax:	0	1.101						
Email:	Sam.Widmer@c	conocophillips.com	christian.llull@tetratech.com	rmann@slo.state.nm.us				
Site Characteriz	ation							
			77' below surface					
			No					
			No					
Extents within 200 feet of lakebed, sinkhole, or playa lake:								
			No					
			No					
Extents within 1000 feet of any water well or spring:			No					
	corporated municip		No					
	0 feet of a wetland:		No					
Extents overlying a subsurface mine: N			No					

Recommended Remedial Action Levels (RRALs) TPH (GRO+DRO) **Total BTEX** TPH (GRO+DRO+MRO) Chloride Benzene 10,000 mg/kg 50 mg/kg 1,000 2,500 mg/kg 10 mg/kg **Reclamation Requirements** TPH (GRO+DRO+MRO) Chloride 100 mg/kg 600 mg/kg

Low

No

No

Karst Potential:

Extents within a 100-year floodplain:

Impact to areas not on a production site:



September 14, 2021

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

Re: Release Characterization and Remediation Work Plan ConocoPhillips EVGSAU 0546-001 Flowline Release Unit Letter O, Section 32, Township 17 South, Range 35 East Lea County, New Mexico Incident ID# NAPP2103564128

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred on a flowline from the East Vacuum Grayburg San Andres Unit (EVGSAU) 0546-001 well. The release footprint is located in Public Land Survey System (PLSS) Unit Letter O, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.786404°, -103.478239°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on February 4, 2021. Approximately 28.7 barrels (bbls) of produced water and 1.2 bbls of oil were released, of which 20 bbls of produced water were reported recovered. Portions of the release footprint were indicated as overspray. The New Mexico Oil Conservation Division (NMOCD) approved the initial C-141 report form for the release on March 25, 2021. The release was subsequently assigned the Incident ID NAPP2103564128.

An earlier release (Incident ID nCH1821833189, 1RP-5145), which occurred on July 9, 2018 from a flowline associated with the EVGSAU 0546-038 well, partially overlaps the release extent of the EVGSAU 0546-001 Flowline Release. This earlier release was assessed and fully delineated by Tetra Tech on behalf of ConocoPhillips in late 2020 and in January 2021. The 1RP-5145 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. A separate Release Characterization and Remediation Work Plan will be submitted to the NMOCD via the fee application portal. With like correspondence from NMOCD, ConocoPhillips will plan to remediate both releases concurrently.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential. A playa lake is located approximately 750 feet southwest of the release location.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are two (2) water wells located within an 800-meter (approximately ½-mile) radius of the release location with an

Release Characterization and Remediation Work Plan September 14, 2021

average depth to groundwater at 77 feet below ground surface (bgs). The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

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

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

SITE ASSESSMENT

Tetra Tech personnel conducted a soil investigation on March 2 and 24, 2021 on behalf of ConocoPhillips. A total of five (5) borings (BH-1 through BH-5) were installed within and around the perimeter of the release extent to depths ranging from 1 to 5 feet bgs using an air rotary drilling rig. Additionally, three (3) borings (AH-1 through AH-3) were installed within the release extent to depths ranging from 0.5 feet to 1 foot bgs using a hand auger. Soils at the Site consist of approximately 1.5 feet of brown silty clay underlain by a caliche cap rock. Figure 3 depicts the approximate release extent and the March 2021 soil boring locations. Photographic documentation of the release prior to the soil assessment is presented in Appendix C.

A total of fourteen (14) samples were collected from the eight (8) borings and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

SUMMARY OF SAMPLING RESULTS

Results from the March 2021 soil sampling event are summarized in Table 1. The analytical results associated with sample locations BH-1, AH-1, and AH-2 exceeded the Site reclamation requirements for chloride and TPH in surface soils (0-4 feet bgs). There were no exceedances of Site RRALs in the subsurface (4-5 feet bgs) sample taken from BH-1, which is located at the point of the release. The results associated with perimeter sample locations BH-2 through BH-5 were below the reclamation requirements for chloride, TPH, and BTEX.

REMEDIATION WORK PLAN

Based on the analytical results from the additional assessment, ConocoPhillips proposes to remove the impacted material within the release extent as shown in Figure 4. Impacted soils will be excavated using

Release Characterization and Remediation Work Plan September 14, 2021

heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 3 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs. The portion of the release extent that lies in the production lease road will be scraped to 0.5 feet bgs. The portion of the extent south of the lease road will be hand dug to 3' bgs or the maximum extent practicable, based on site safety concerns. The pipeline operators for this portion of the extent requested minimal disturbances in the vicinity of their lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for chloride, TPH, and BTEX. Once analytical results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 670 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Fourteen (14) confirmation floor samples and twenty (20) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 7,980 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

Post-remediation, the backfilled pasture areas will be seeded (in the next first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E. Final reclamation will create a landform that approximates and blends in with the surrounding landform, while controlling erosion.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. As noted, it is COP's desire to remediate these coincident releases (Incident ID nCH1821833189 and NAPP2103564128) concurrently, as such work plans for each incident will be submitted in quick succession for prompt approvals.

Release Characterization and Remediation Work Plan September 14, 2021

ConocoPhillips

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Samantha K. Abbott, P.G. Senior Staff Geologist

Christian M, Llull, P.G. Project Manager

cc: Mr. Sam A. Widmer, RMR – ConocoPhillips

Mr. Charles Beauvais, GPBU - ConocoPhillips

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Release Characterization and Remediation Work Plan September 14, 2021

LIST OF ATTACHMENTS

Figures:

- Figure 1 Site Location Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Site Assessment
- Figure 4 Proposed Remediation Extent
- Figure 5 Alternative Confirmation Sampling Plan

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

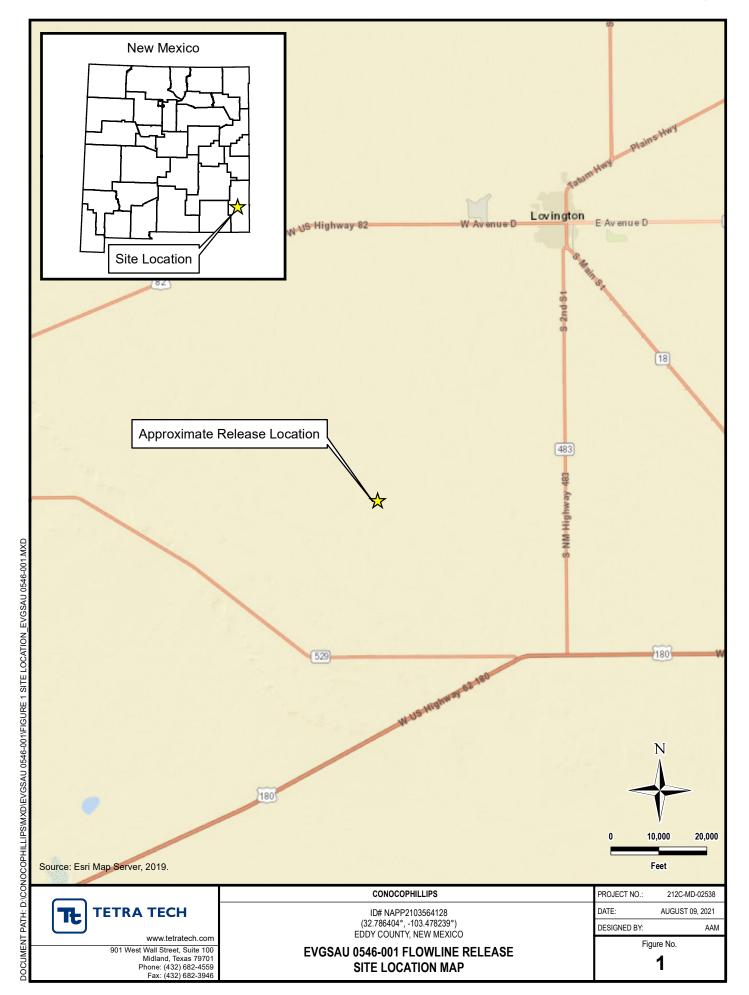
Appendices:

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

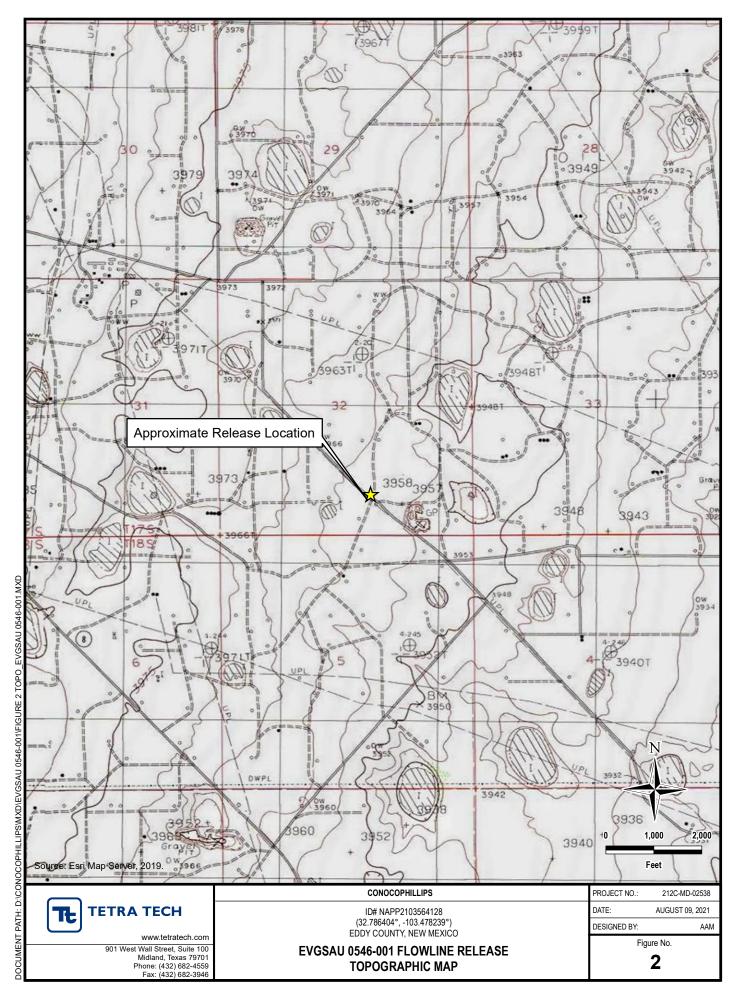
Appendix E - NMSLO Seed Mixture Details

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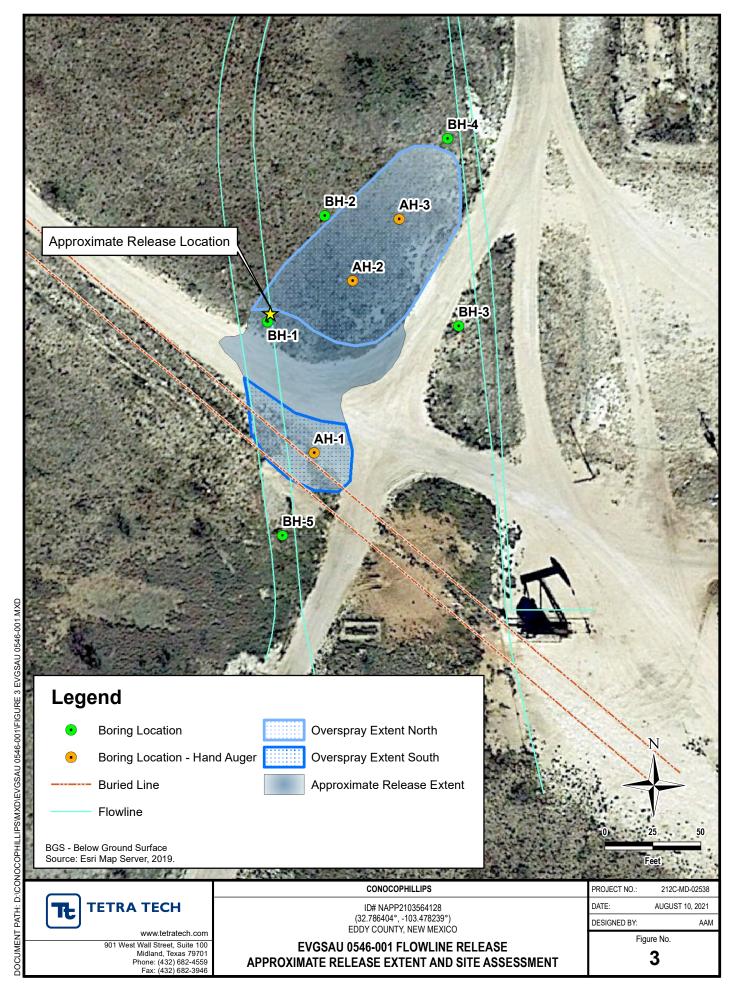
FIGURES



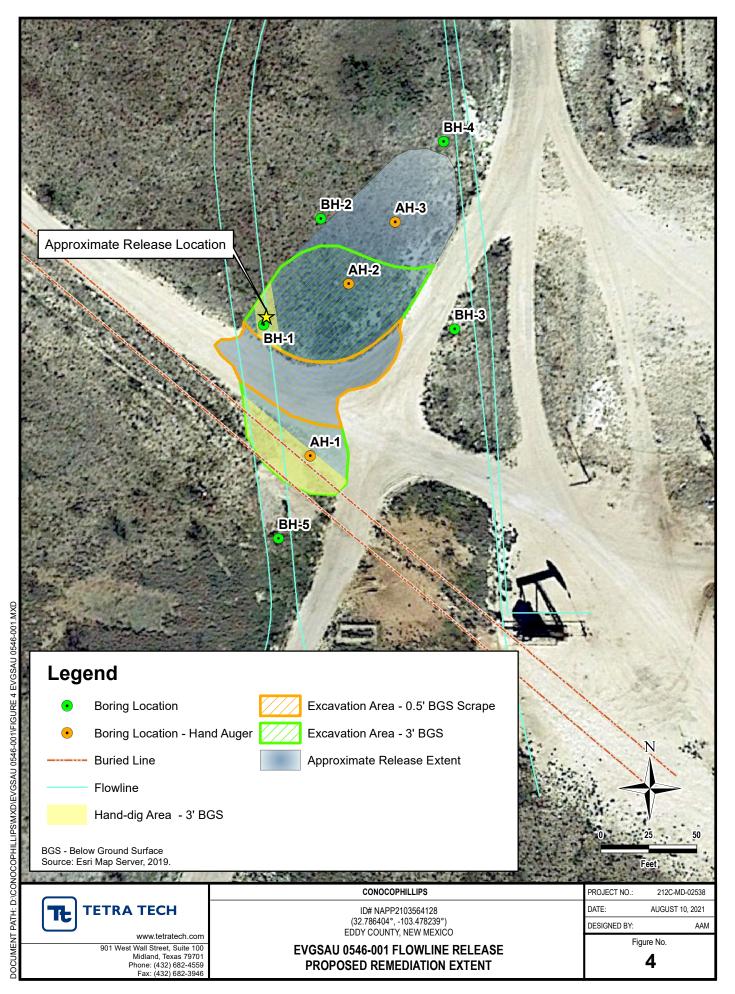
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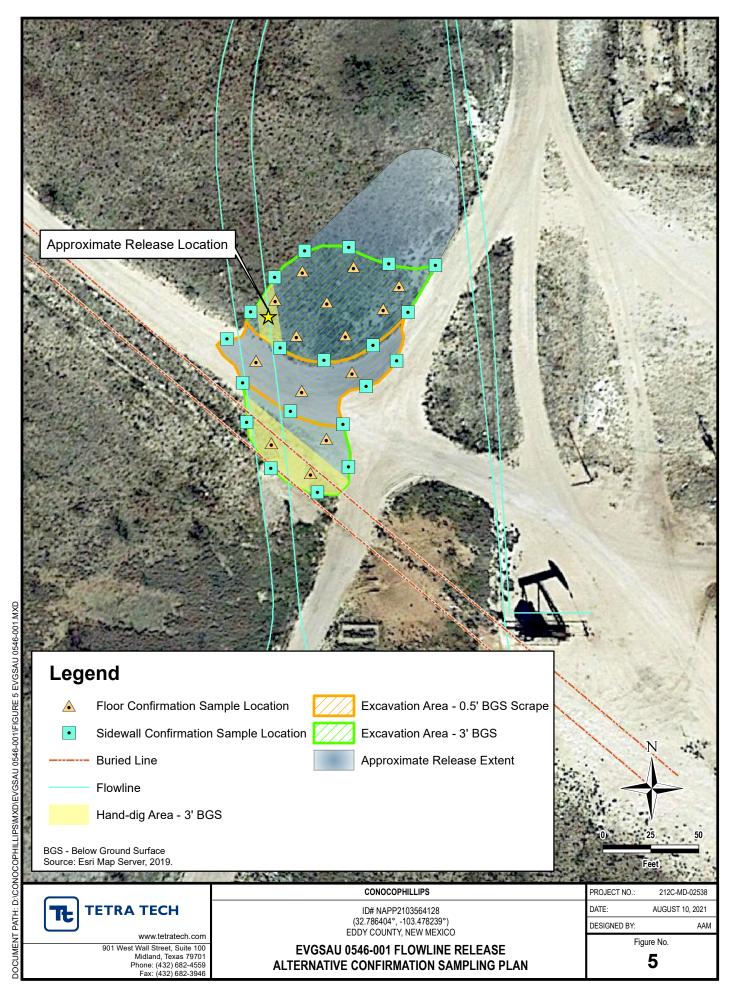


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TABLES

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT CONOCOPHILLIPS EVGSAU 0546-001 FLOWLINE RELEASE NAPP2103564128 LEA COUNTY, NM

								BTEX ²								TPH ³						
Sample ID	Sample Date	Sampled Depth	Chloride ¹		Benzene		Toluene		Ethylbonzon	Ethvlbenzene		Total Xylenes			GRO ⁴		DRO		ORO		Total TPH	
Sample ib	Sample Date	2 optil			Delizene		roidelle		Ethyloelizelle		i otal Aylelles		Total BTEX		C ₆ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₃₆		Total IFI	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg C	ב	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
	3/2/2021	(0'-1')	2,240		0.098		0.270		0.130		0.263		0.762		< 10.0		615		84.3		699	
	3/2/2021	(1'-2')	1,420		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		233		31.9		265	
BH-1	3/2/2021	(2'-3')	928		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		161		23.5		185	
	3/2/2021	(3'-4')	272		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		15.5		< 10.0		15.5	
	3/2/2021	(4'-5')	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	
BH-2	3/2/2021	(0'-1')	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	
BH-3	3/2/2021	(0'-1')	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	
BH-4	3/2/2021	(0'-1')	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	
BH-5	3/2/2021	(0'-1')	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	
AH-1	3/24/2021	(0'-0.5')	4,320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		111		58.9		170	
AH-2	3/24/2021	(0'-0.5')	1,640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		574		208		782	
A11-2	3/24/2021	(0.5'-1')	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		145		40.5		186	
AH-3	3/24/2021	(0'-0.5')	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	
AII-3	3/24/2021	(0.5'-1')	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	

NOTES:

Bold and italicized values indicate exceedance of proposed RRALs based on the region's depth to groundwater and the sampled depths bgs.

Shaded rows indicate intervals proposed for excavation.

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

NS Not sampled

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

1 Method SM4500Cl-B

2 EPA Method 8021M

3 EPA Method 8015M

4 EPA Method 8015D/GRO

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APPENDIX 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

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Incident ID	NAPP2103564128
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817			
Contact Name Kelsy Waggaman	Contact Telephone 505-577-9071			
Contact email Kelsy.Waggaman@ConocoPhillips.comIncident # (assigned by OCD) NAPP2103564128				
Contact mailing address 29 Vacuum Complex Lane, Lov	vington, NM 88260			

Location of Release Source

Latitude 32.786111

Longitude -103.478056 (NAD 83 in decimal degrees to 5 decimal places)

Site Name EVGSAU 0546-001 Flowline - off-location	Site Type Flowline - off-location
Date Release Discovered 2/4/21	API# (if applicable) N/A

Uı	nit Letter	Section	Township	Range	County
	0	32	17S	35E	Lea

Surface Owner: X State Federal Tribal Private (Name: _

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) 1.2	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 28.7	Volume Recovered (bbls) 20
	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

Flowline Failure

Page	2

Incident ID	NAPP2103564128
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? The release exceeded 25 bbls of produced water.					
X Yes 🗌 No						
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification of Release (NOR)/C-141a was submitted electronically through NMOCD portal by Kelsy						
Waggaman, ConocoPhillips Environmental Coordinator on 2/4/21. Action ID #17099.						
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.

X The impacted area has been secured to protect human health and the environment.

X 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.

Drinted Name	Kelsv	Waggaman
Printed Name	,	

Signature: Kuyhbrythm

email: Kelsy.Waggaman@ConocoPhillips.com

OCD Only

Received by: Karen Collins

Date: <u>3/25/2021</u>

Date: 3/15/21

Telephone: 505-577-9071

Received by OCD: 9/13/2021 11:33:51 PM

NAPP2103564128

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				L48 Spill Vo	lume Estimate Form				
	Facility Name & Number: EVGSAU 0546-001								
		Asset Area:	SENM (BUCKEYE)					
	Release Disc	covery Date & Time:	2/4/2021 7:00AM N	IST					
		Release Type:	Oil Mixture						
Provid	Provide any known details about the event Flowline Leak, Vacuum truck picked up approx. 20bbls fluid as well.								
				Spill Calculation -	Subsurface Spill - Rectangle				
	Was the release	on pad or off-pad?			On Pad - 10.5%; Off Pad - 15.12%	soil spilled-fluid satur	ation factor		
Has it rained at least a half inch in the last 24 hours? Yes, On Pad - 8% Off Pad - 13 57% soil spilled-fluid saturation factor; if No, use factors above.							/e.		
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	35.0	8.0	2.00	15.12%	8.307	1.256	12.50%	0.157	1.099
Rectangle B	60.0	25.0	2.00	15.12%	44.500	6.728	12.50%	0.841	5.887
Rectangle C	15.0	15.0	3.00	15.12%	10.013	1.514	12.50%	0.189	1.325
Rectangle D	65.0	30.0	0.10	15.12%	2.893	0.437	12.50%	0.055	0.383
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000 ናጋ		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Rectangle J					0.000	0.000		0.000	0.000
					Total Volume Release:	9.936		1.242	8.694

Form C-141	State of New Mexico	Incident ID	NAPP2103564128
		meident ID	NAFP2103004120
Page 3	Oil Conservation Division	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?	<u>77</u> (ft bgs)
Did this release impact groundwater or surface water?	Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗹 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗹 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗹 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗹 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗹 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗹 No
Did the release impact areas 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.

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Page 4 Oil Conservation Division Incident ID NAPP210356412 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 regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may expublic health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operatio failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environmer addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or loca and/or regulations. Printed Name: Sam Widmer Title: Program Manager Signature: Juit Widmer Date: 09//13/2071 email: Sam. Widmer@cop.com Telephone: 28/-206-5398	0
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 regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may end public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operation failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local and/or regulations. Printed Name: Sam Widman	8
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 regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may enpublic health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operatio failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environmer addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or loca and/or regulations. Printed Name: Sam Information	
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may en- public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operation failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or loca and/or regulations.	
•	ndanger 1s have t. In
OCD Only Received by:	

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ived by OCD: 9/13/202	21 11:33:51 PM		Pa
Form C-141 Page 5	State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application ID	NAPP2103564128
	Remediation I	Plan	
Remediation Plan Che	cklist: Each of the following items must be included in	n the plan.	
 Scaled sitemap with Estimated volume o Closure criteria is to Proposed schedule f 	of proposed remediation technique GPS coordinates showing delineation points f material to be remediated Table 1 specifications subject to 19.15.29.12(C)(4) NM for remediation (note if remediation plan timeline is mor	e than 90 days OCD approval is	. ,
	 <u>v</u>: <i>Each of the following items must be confirmed as p</i> be in areas immediately under or around production eq 		-
Extents of contamin	ation must be fully delineated.		
Contamination does	not cause an imminent risk to human health, the enviro	nment, or groundwater.	
rules and regulations all which may endanger pul liability should their ope surface water, human he	information given above is true and complete to the best operators are required to report and/or file certain release blic health or the environment. The acceptance of a C-1 erations have failed to adequately investigate and remedi- ealth or the environment. In addition, OCD acceptance of iance with any other federal, state, or local laws and/or r	se notifications and perform cor 41 report by the OCD does not iate contamination that pose a the of a C-141 report does not relieved	rective actions for releases relieve the operator of areat to groundwater,

Printed Name: Sam Widmer Signature: San Wiechne	Title: 105/cm Manyer Date: 09/13/2021
email: <u>Sam, Widmer Ecop, con</u>	Telephone: 281-206- 5298
OCD Only	
Received by: Chad Hensley	Date:10/07/2021
Approved X Approved with Attached Conditions of A	pproval 🗌 Denied 🗌 Deferral Approved
Signature:	Date:10/07/2021

APPENDIX B Site Characterization Data



(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)		(quarte (quarte					3=SW 4 gest)) AD83 UTM in me	eters)	(In feet)	
POD Number	POD Sub- Code basin (Count	QQ 96416			Tws	Rng		х	Y	Distance	-	-	Water Column
L 04829 S	L	LE	3	4	32	17S	35E	6425	54	3628586* 🌍	48	198	85	113
L 04931	L	LE	1	2	05	18S	35E	6425	561	3628183* 🌍	427	237	70	167
										Avera	ge Depth to	Water:	77	feet
											Minimum	Depth:	70	feet
											Maximum	Depth:	85	feet
Record Count: 2														

UTMNAD83 Radius Search (in meters):

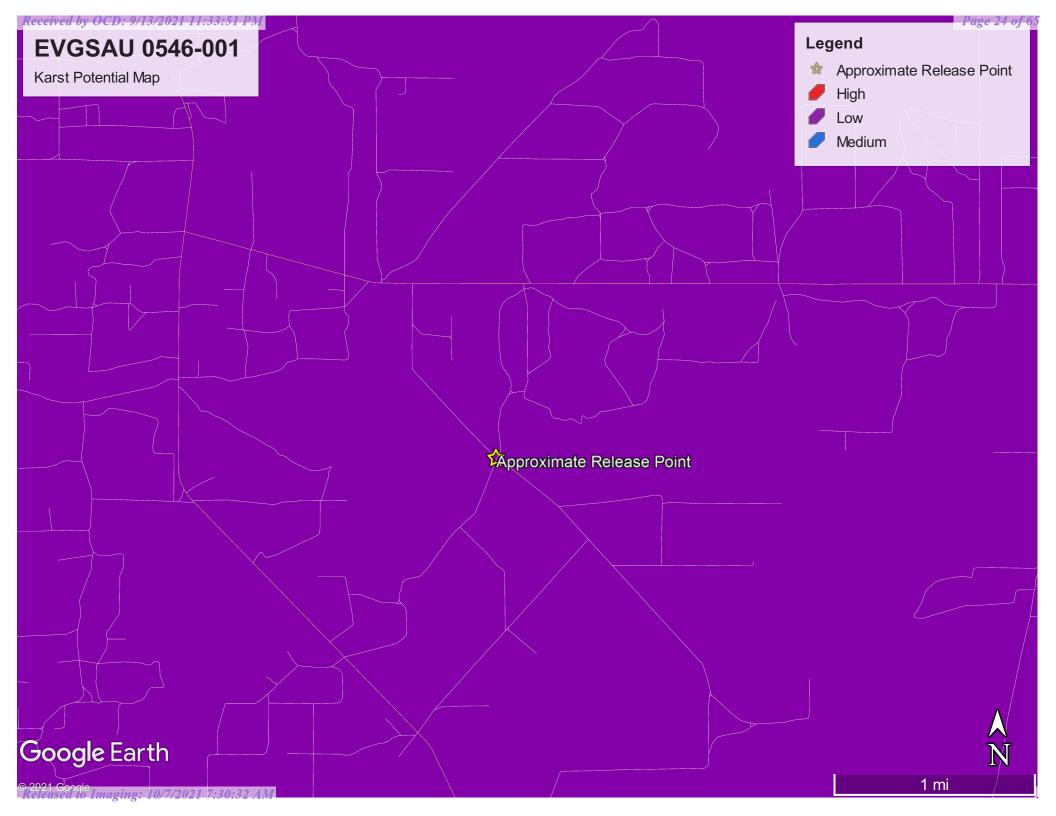
Easting (X): 642510.8

Northing (Y): 3628607.47

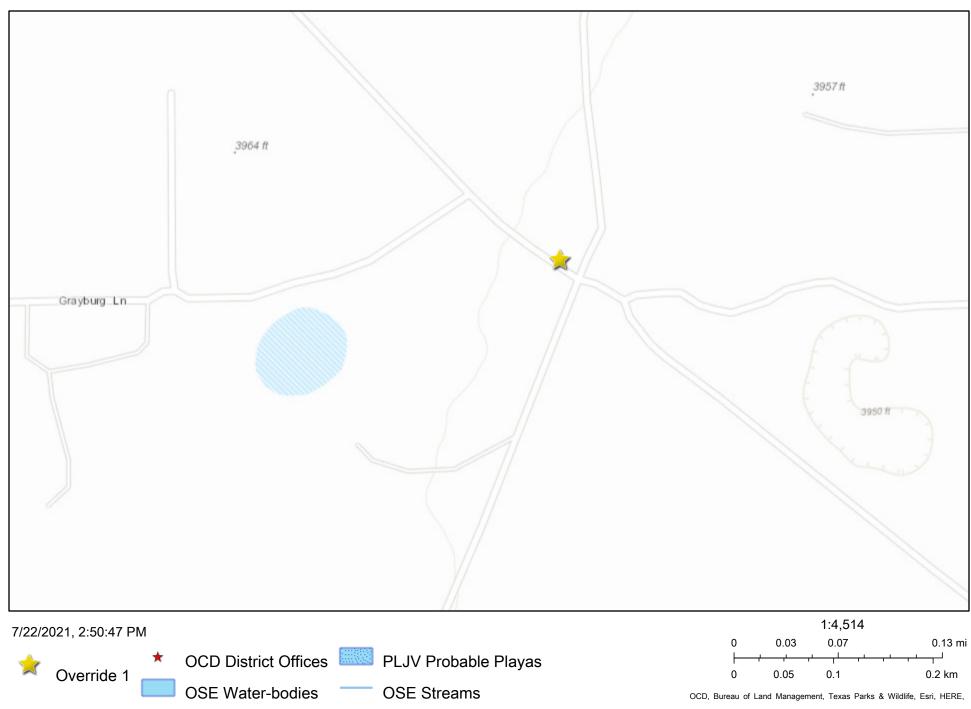
Radius: 800

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



EVGSAU 0546-001 Flowline Release

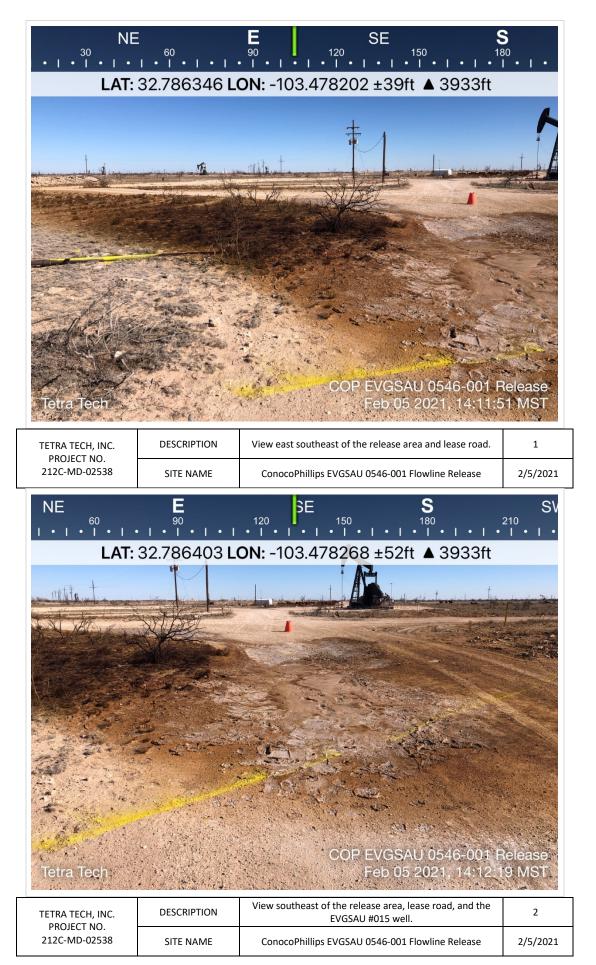


Released to Imaging: 10/7/2021 7:30:32 AM

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

New Mexico Oil Conservation Division

APPENDIX C Photographic Documentation







Page 30 of 65





APPENDIX D Laboratory Analytical Data



March 04, 2021

JOE TYLER Conoco Phillips - Hobbs P. O. BOX 325 Hobbs, NM 88240

RE: EVGSAU 0546-001 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/21 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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/ga/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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 1 (0-1) (H210500-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.098	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	0.270	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	0.130	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	0.263	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	0.762	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	03/03/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	615	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	84.3	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 1 (1-2) (H210500-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	03/03/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	233	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	31.9	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.8	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 1 (2-3) (H210500-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	03/03/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	161	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	23.5	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.5	% 42.2-15	6						

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 1 (3-4) (H210500-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/03/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	15.5	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	78.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.9	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 1 (4-5) (H210500-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/03/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	<10.0	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.0	% 42.2-15	6						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 2 (0-1) (H210500-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	<10.0	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.2	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 3 (0-1) (H210500-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/03/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	<10.0	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.3	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 4 (0-1) (H210500-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/03/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	<10.0	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	71.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	72.0	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/02/2021	Sampling Date:	03/02/2021
Reported:	03/04/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: BH - 5 (H210500-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2021	ND	2.23	112	2.00	0.770	
Toluene*	<0.050	0.050	03/03/2021	ND	2.26	113	2.00	1.03	
Ethylbenzene*	<0.050	0.050	03/03/2021	ND	2.18	109	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/03/2021	ND	6.33	106	6.00	0.986	
Total BTEX	<0.300	0.300	03/03/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/03/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	211	106	200	3.47	
DRO >C10-C28*	<10.0	10.0	03/03/2021	ND	203	102	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	03/03/2021	ND					
Surrogate: 1-Chlorooctane	73.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	74.7	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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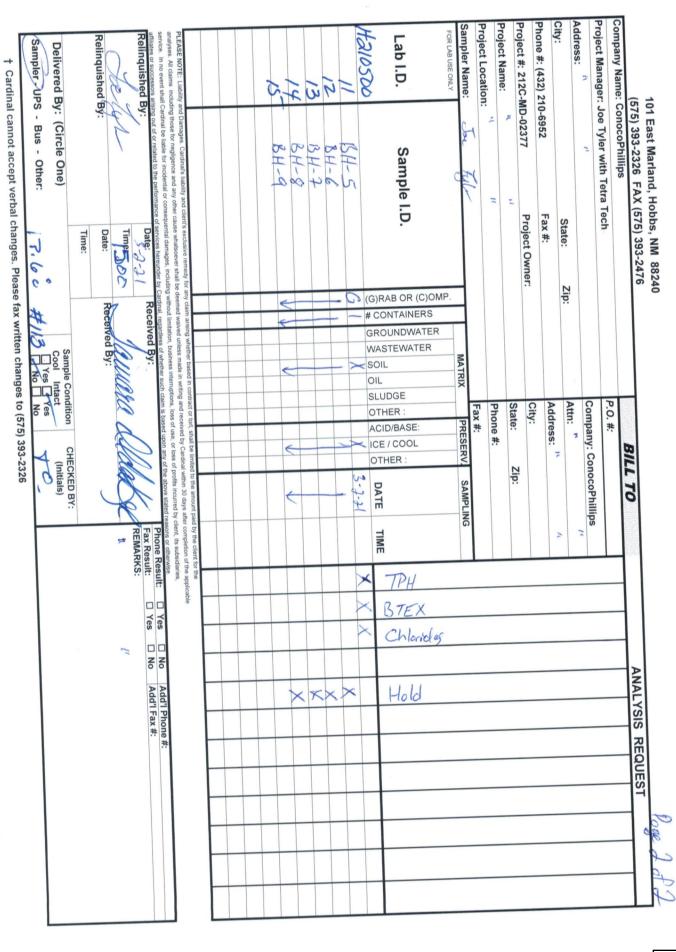
Celey D. Keene, Lab Director/Quality Manager

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Delivered By: (Circle One)	Relinquished By:	analyses. All claims including triose or inserview of a service. In no event shall Cardinal be liable for incidental or or affiliates or successors arising out of or related to the performa	PLEASE NOTE: Liability and Damages. Cardinal's liability and	-	BH2 (t			(L) (L)	(1-0) 1-HS 1 (0-1)	4211570	Lab I.D. Sample I.D.		T TL	EUGS AU	D Phillips	1010	City: phone #: (432) 210-6952	Address: joe, tyler a tettoriech	anager. Jue	Company Nallie. Convort minero	(575) 393-2326 FAX (5/5) 393-24/0
Time: Sample Cool I	Times Received By:	anayses. At dams, including trace in insurgence and the state of the s	PLEASE NOTE: Labelity and Damages. Cardina's labelity and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the annount paid by the client for time plicable PLEASE NOTE: Labelity and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be directived by Cardina's within 30 days after completion of the applicable PLEASE NOTE: Labelity and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in writing and tereshed by Cardina's within 30 days after completion of the applicable PLEASE NOTE: Labelity and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in writing and tereshed by Cardina's within 30 days after completion of the applicable PLEASE NOTE: Labelity and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in writing and tereshed by Cardina's liability and client's exclusive remedy for any claim arising whether based in writing and tereshed by Cardina's writin		(1-0	9-10)	(4.4)	(4-S)	1-1) 1-3)	X I B	# (GF W	ORAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL	MATRIX			51KSAN 1546-001 Release	Project Owner:		State: Zip:	2	Tech	(5/5) 393-2410
Sample Condition CHECKED BY: Cool Intact (Initials)	ra Wildabye	ch claim is based upon any of the above stated reas	I contract or tort, shall be limited to the amount paid b riting and received by Cardinal within 30 days after c riting and received on the profits incurred by clie	4						1 2.4.2		LUDGE THER : CID/BASE: DE / COOL OTHER :	PRESERV. SAME LING	Fax #:	Phone #:	State: Zip:	City: @ conocophillips.co	Address: Sean. 6. garwite	Attn: Sean Gereitek	Company: ConocoPhillips	P.O. #:	BILL TO
	to Sea	phone Result: Yes No Add'I Phone #:	y the client nor time completion of the applicable int, it is subsidiarities.	XXXX	-	XXX	×				×	TPH BTEX Chlowdes Hold					COMA					ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326





March 26, 2021

JOE TYLER Conoco Phillips - Hobbs P. O. BOX 325 Hobbs, NM 88240

RE: EVGSAU 0546-001 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/24/21 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/24/2021	Sampling Date:	03/24/2021
Reported:	03/26/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: AH - 1 (0' - 0.5') (H210738-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2021	ND	2.05	103	2.00	2.01	
Ethylbenzene*	<0.050	0.050	03/24/2021	ND	1.97	98.7	2.00	1.93	
Total Xylenes*	<0.150	0.150	03/24/2021	ND	5.85	97.5	6.00	1.75	
Total BTEX	<0.300	0.300	03/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	111	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	58.9	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.0	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2021	Sampling Date:	03/24/2021
Reported:	03/26/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: AH - 2 (0' - 0.5') (H210738-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2021	ND	2.05	103	2.00	2.01	
Ethylbenzene*	<0.050	0.050	03/24/2021	ND	1.97	98.7	2.00	1.93	
Total Xylenes*	<0.150	0.150	03/24/2021	ND	5.85	97.5	6.00	1.75	
Total BTEX	<0.300	0.300	03/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	574	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	208	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	81.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.3	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2021	Sampling Date:	03/24/2021
Reported:	03/26/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: AH - 2 (0.5' - 1.0') (H210738-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2021	ND	2.05	103	2.00	2.01	
Ethylbenzene*	<0.050	0.050	03/24/2021	ND	1.97	98.7	2.00	1.93	
Total Xylenes*	<0.150	0.150	03/24/2021	ND	5.85	97.5	6.00	1.75	
Total BTEX	<0.300	0.300	03/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	145	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	40.5	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	69.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.2	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2021	Sampling Date:	03/24/2021
Reported:	03/26/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: AH - 3 (0' - 0.5') (H210738-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2021	ND	2.05	103	2.00	2.01	
Ethylbenzene*	<0.050	0.050	03/24/2021	ND	1.97	98.7	2.00	1.93	
Total Xylenes*	<0.150	0.150	03/24/2021	ND	5.85	97.5	6.00	1.75	
Total BTEX	<0.300	0.300	03/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	61.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	58.5	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2021	Sampling Date:	03/24/2021
Reported:	03/26/2021	Sampling Type:	Soil
Project Name:	EVGSAU 0546-001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02377	Sample Received By:	Tamara Oldaker
Project Location:	EVGSAU 0546-001		

Sample ID: AH - 3 (0.5' - 1.0') (H210738-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2021	ND	2.05	103	2.00	2.01	
Ethylbenzene*	<0.050	0.050	03/24/2021	ND	1.97	98.7	2.00	1.93	
Total Xylenes*	<0.150	0.150	03/24/2021	ND	5.85	97.5	6.00	1.75	
Total BTEX	<0.300	0.300	03/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2021	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	03/24/2021	ND	207	104	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	03/24/2021	ND					
Surrogate: 1-Chlorooctane	70.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	67.9	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page / of

101	(3/3) 333-2320 FAX (3/3) 333-24/0	1/0				
Company Name: ConocoPhillips	onocoPhillips		BILL TO		ANALYSIS F	REQUEST
Project Manager: Ju	Project Manager: Joe Tyler with Tetra Tech		P.O. #:			
Address: joe.tyler@tetratech.com	tetratech.com		Company: ConocoPhillips	sd		
City:	State:	Zip:	Attn: Sean Garwick	ick		
Phone #: (432) 210-6952	6952 Fax #: NA			erwick		
Project #: 212C-MD-02377	-02377 Project Owner:	er:	City: @ corrochahillips. com	is, com		
Project Name:	onaco Phillips EVGSAL	SALA 0546-001	State: Zip:			
Project Location:	46-		Phone #:			
Sampler Name:	Jee Tyler		Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G		
		RS				
Lab I.D.	Sample I.D.	G)RAB OR (C CONTAINE ROUNDWA VASTEWATE OIL UL LUDGE	OTHER : CID/BASE: CE / COOL OTHER :	TPH BTEX	Chlorides	
	AH1 (0'-0.5 1)	×	×	XX	X	
2	AH2 (0-0.5')				×	
a	1 (0.5'-			XX	×	
	AH3 (0-0.5')				×	
S	AH3 (0.5' - 1.0')			××	×	
		C			1 0	
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DI FACE NOTE: I shifty and Dag				but the client for the		
analyses. All claims including thos service. In no event shall Cardinal affiliates or successors arising out	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable estricts. In no event shall cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and the specific estructure of the applicable estructure in the performance of service hereinder by Cardinal repartless of whether such claims is based using a story stated reasons or otherwise.	be deemed waived unless made in writing and rec ting without limitation, business interruptions, loss w Cardinal, recardless of whether such claim is be	nd received by Cardinal within 30 days after , loss of use, or loss of profits incurred by cli his based upon any of the above stated rease	completion of the applicable lent, its subsidiaries, sons or otherwise		
ished By		Received By:	MAN -	Phone Results: Yes Fax Results: Yes	NoAdd'l Phone #:NoAdd'l Fax #:	
Ratinnuished By:	Date:	Repetived By:	Margal	Email Results to:		
	Time:		(Joe lyle	r and Sean	Gerwick
Delivered By: (Circle One)	Sircle One)	Sample Condition	сн			
Sampler - UPS - B	Bus - Other: 15.9 2					
† Cardinal can	Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326	se fax written changes to	(575) 393-2326			

APPENDIX E NMSLO Seed Mixture Details

Received by OCD: 9/13/2021 11:33:51 PM



Released to Imaging: 10/7/2021 7:30:32 AM

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Custom Soil Resource Report

	MAP L	EGEND		MAP INFORMATION
Area of Int	erest (AOI) Area of Interest (AOI)		Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soils		۵		
	Soil Map Unit Polygons	0	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
~	Soil Map Unit Lines	\$	Wet Spot	Enlargement of maps beyond the scale of mapping can cause
	Soil Map Unit Points	\triangle	Other	misunderstanding of the detail of mapping and accuracy of soil
	Point Features	1×.	Special Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
ల	Blowout	Water Fea		scale.
	Borrow Pit	\sim	Streams and Canals	
*	Clay Spot	Transport	ation Rails	Please rely on the bar scale on each map sheet for map measurements.
0	Closed Depression	++++		measurements.
×	Gravel Pit	~	Interstate Highways	Source of Map: Natural Resources Conservation Service
°° 8.10	Gravelly Spot	~	US Routes	Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
0	Landfill	\sim	Major Roads	
	Lava Flow	\approx	Local Roads	Maps from the Web Soil Survey are based on the Web Mercato projection, which preserves direction and shape but distorts
Λ.		Backgrou		distance and area. A projection that preserves area, such as the
- <u>116</u> -	Marsh or swamp	100	Aerial Photography	Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
Ŕ	Mine or Quarry			
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data a
0	Perennial Water			of the version date(s) listed below.
\vee	Rock Outcrop			Soil Survey Area: Lea County, New Mexico
+	Saline Spot			Survey Area Data: Version 17, Jun 8, 2020
° °	Sandy Spot			Soil map units are labeled (as space allows) for map scales
-	Severely Eroded Spot			1:50,000 or larger.
0	Sinkhole			Date(s) aerial images were photographed: Feb 7, 2020—May
∢	Slide or Slip			12, 2020
ø	Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	0.9	100.0%
Totals for Area of Interest		0.9	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F Frost-free period: 180 to 220 days Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent *Lea and similar soils:* 25 percent *Minor components:* 30 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Kimbrough

Setting

Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear, concave Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R077DY049TX - Very Shallow 12-17" PZ Hydric soil rating: No

Description of Lea

Setting

Landform: Plains Down-slope shape: Convex Across-slope shape: Linear Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX) Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077DY038TX - Clay Loam 12-17" PZ Hydric soil rating: No

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Spraberry

Percent of map unit: 6 percent Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX) Hydric soil rating: No

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NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Black grama	VNS, Southern	1.0	D	
Blue grama	Lovington	1.0	D	
Sideoats grama	Vaughn, El Reno	4.0	F	
Sand dropseed	VNS, Southern	2.0	S	
Alkali sacaton	VNS, Southern	1.0		
Little bluestem	Cimarron, Pastura	1.5	F	
<u>Forbs:</u> Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D	
<u>Shrubs:</u> Fourwing saltbush Common winterfat	Marana, Santa Rita VNS, Southern	1.0 0.5	D F	
	Total PLS/acr	e 18.0	8 B	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



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

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District III

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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: C	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	48231
A	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	The OCD request 16 floor samples to be collected for closure.	10/7/2021
chensley	The OCD request that a closure report be submitted by 1/07/0222.	10/7/2021

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Action 48231