



February 22, 2021

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

**Re: Remediation and Closure Report
ConocoPhillips
EVGSAU Satellite #3 Release
Unit Letter J, Section 32, Township 17 South, Range 35 East
Lea County, New Mexico
Incident ID: nRM2027962353**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred within the East Vacuum Grayburg-San Andres Unit (EVGSAU) Satellite #3 facility (Associated Incident ID nRM2027962353). The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.788697°, -103.478611°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), the release was discovered on September 19, 2020. As documented on the C-41 form, a corroded pipe led to the release of approximately 7.6 barrels (bbls.) of produced water and 0.85 bbls of oil. The release extent was reported as encompassing an area of approximately 500 square feet (sf) inside the facility on the caliche pad. The approximate release extent is shown in Figure 3. No materials were recovered after the release. The C-141 report form for the release was submitted to the New Mexico Oil Conservation District (NMOCD) on October 4, 2020. The NMOCD assigned this release Incident ID nRM2027962353. The release area footprint was fenced as a portion of initial response activities. An extension was filed for an additional 90 days after the first 90 days and was approved by the NMOCD. The email correspondence from the NMOCD regarding the extension is found in Appendix F.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are two water wells within a ½ mile (800-meter) radius of the Site with an average depth to groundwater at 77 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com

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 site characterization and the release location, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL RESPONSE ACTIVITIES

As mentioned above, the release area footprint was fenced as a portion of initial response. In accordance with 19.15.29.8.B.(4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in 2020. The footprint of the release was excavated to approximately 6 inches bgs to remove the visually impacted soils as shown in Figure 4. All the excavated material was transported offsite for proper disposal. Approximately 20 cubic yards of material were transported to the R360 facility in Hobbs, New Mexico. Waste Manifests are found in Appendix E.

REMEDIAL ACTIVITIES

As a portion of initial response, visually impacted soils were initially excavated based on the identified release footprint. In order to determine if initial response remedial activities had met the remediation standards pursuant to 19.15.29.12 NMAC, Tetra Tech personnel conducted confirmation soil sampling of the excavated area for verification of remedial activities where each sidewall and floor sample was representative of approximately 200 square feet. A total of 3 floor sample (FS) locations and 7 sidewall (SW) sample locations were used during the remedial activities in December 2020.

A total of 3 floor confirmation samples and 7 sidewall confirmation samples were collected from the 10 locations, placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed for TPH, BTEX, and chloride within appropriate holding times. Collected samples submitted to Cardinal Laboratories in Hobbs, NM to be analyzed for chlorides via EPA Method 4500.0, 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 C.

After review of the analytical results from the confirmation sampling event, analytical results at sidewall confirmation location SW-6 exceeded the applicable RRAL for TPH (2,500 mg/kg). This portion of the excavation was then extended eastward by approximately 2 feet as shown in Figure 4. Following the additional excavation, one additional sidewall confirmation sample was collected. Analytical results associated with SW-6 (2') were below the RRAL for TPH. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. Approximately 5 cubic yards of additional material were transported to the R360 facility in Hobbs, New Mexico. Photographic documentation of the remediated site prior to backfill is included in Appendix D.

CONFIRMATION SAMPLING RESULTS

The total excavation area encompassed a surface area of approximately 600 square feet. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the respective RRALs for BTEX, TPH and chlorides. Results from the December 2020 and January 2021 confirmation

Remediation and Closure Report
February 22, 2021

ConocoPhillips

sampling events are summarized in Table 1. Once results were received that were below the applicable RRALs, the excavation was backfilled with clean material to surface grade. The impacted surface area occurring on the developed pad at the facility was remediated to meet the standards of Table I of 19.15.29.12 NMAC.

CONCLUSION

ConocoPhillips has completed remediation at the release site. This final closure report has been submitted within 180 days of discovery of the release. This final closure report details the release characterization and remediation activities and the results of the confirmation sampling. If you have any questions concerning the soil assessment, the remediation work, or confirmation sampling for the Site, please call me at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.



Christian M. Llull, P.G.
Project Manager

cc:

Ms. Kelsy Waggaman, GPBU – ConocoPhillips

Mr. Robert Dobbs, GPBU – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Remedial Activities and Confirmation Sampling Locations

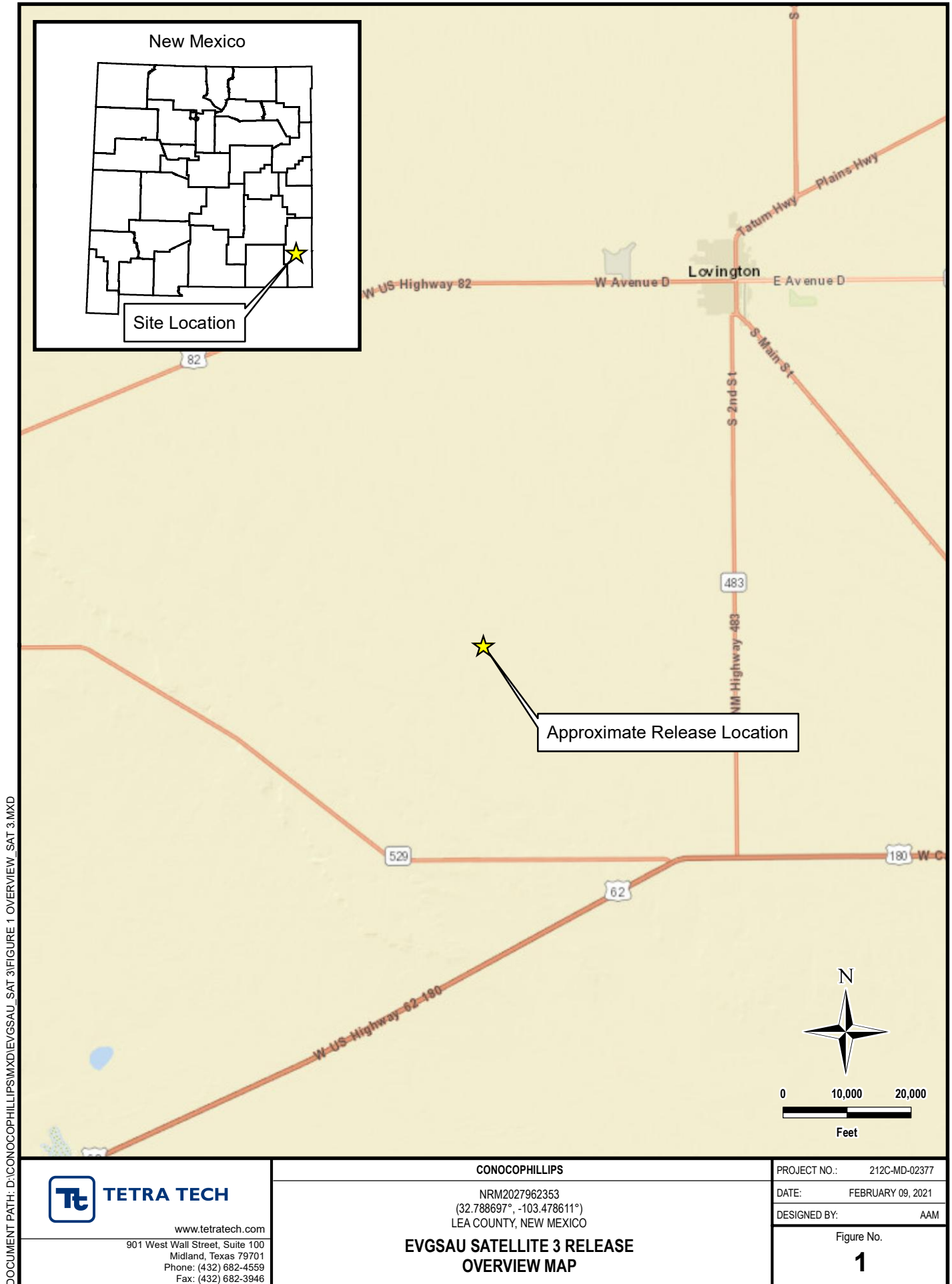
Tables:

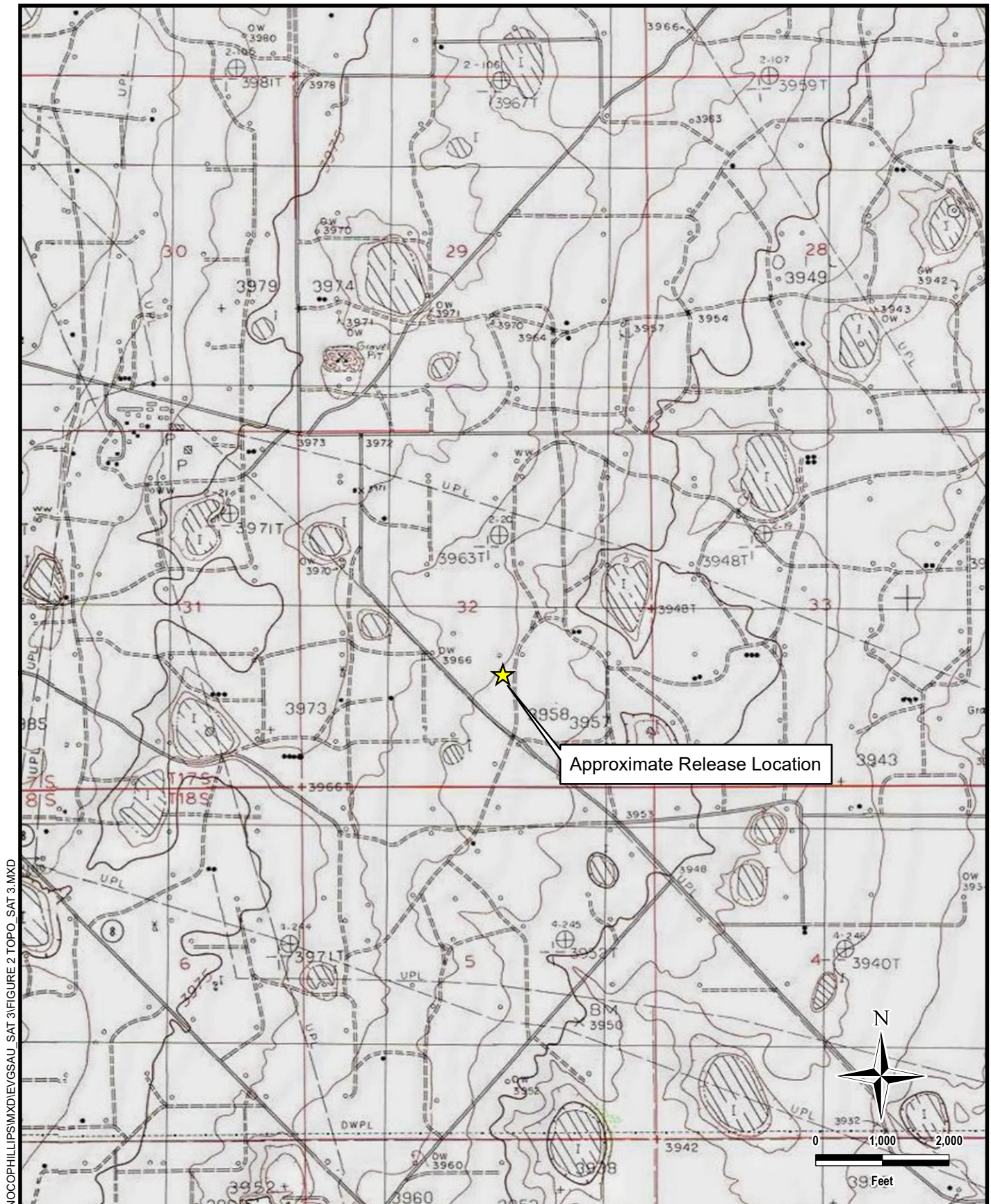
- Table 1 – Summary of Analytical Results – Confirmation Sampling

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data
- Appendix D – Photographic Documentation
- Appendix E – Waste Manifests
- Appendix F – NMOCD Extension

FIGURES





DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU SAT 3\FIGURE 2 TOPO SAT 3.MXD

**TETRA TECH**

www.tetrattech.com

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

CONOCOPHILLIPS

NRM2027962353
(32.788697°, -103.478611°)
LEA COUNTY, NEW MEXICO

EVGSAU SATELLITE 3 RELEASE TOPOGRAPHIC MAP

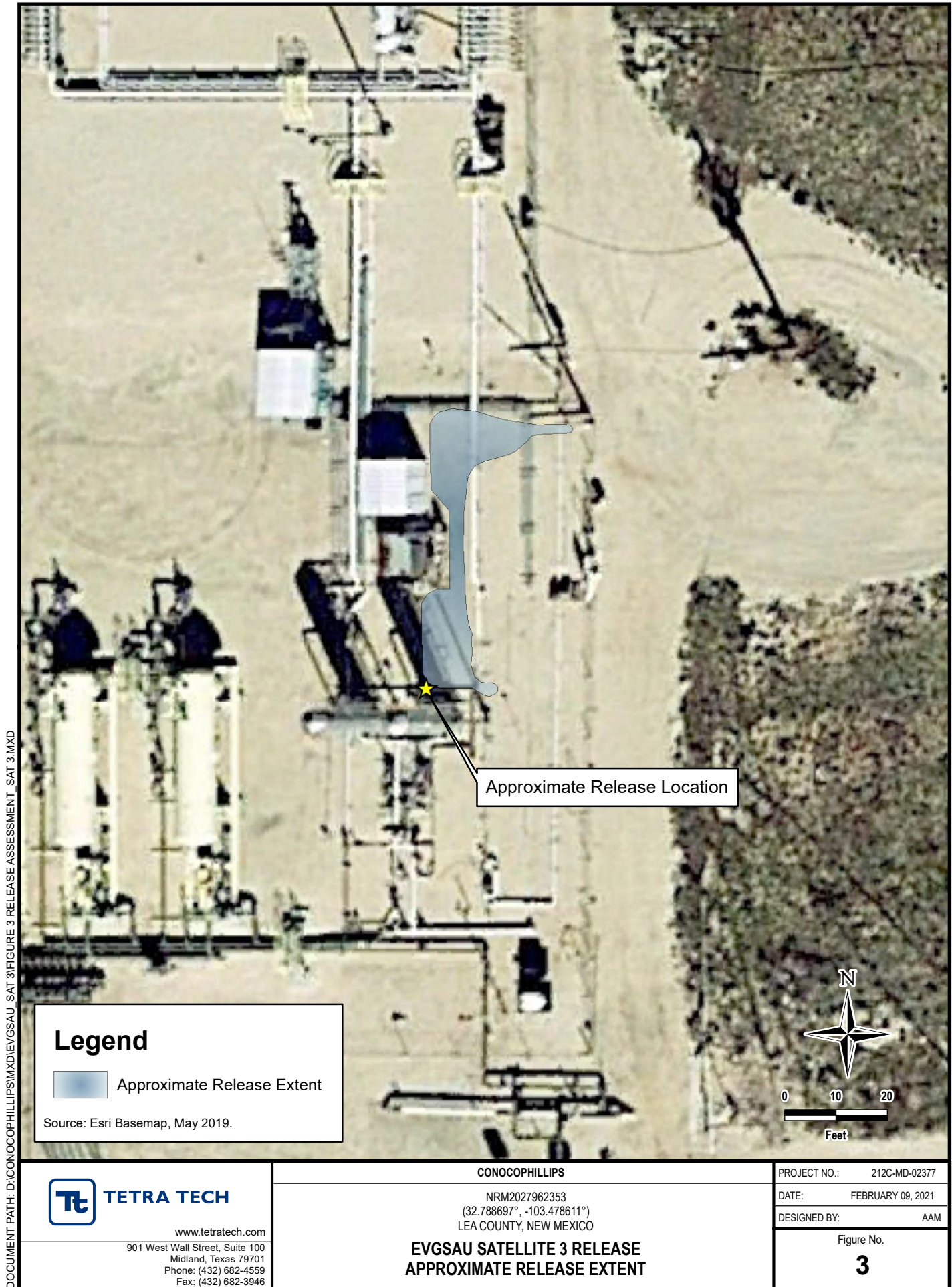
PROJECT NO.: 212C-MD-02377

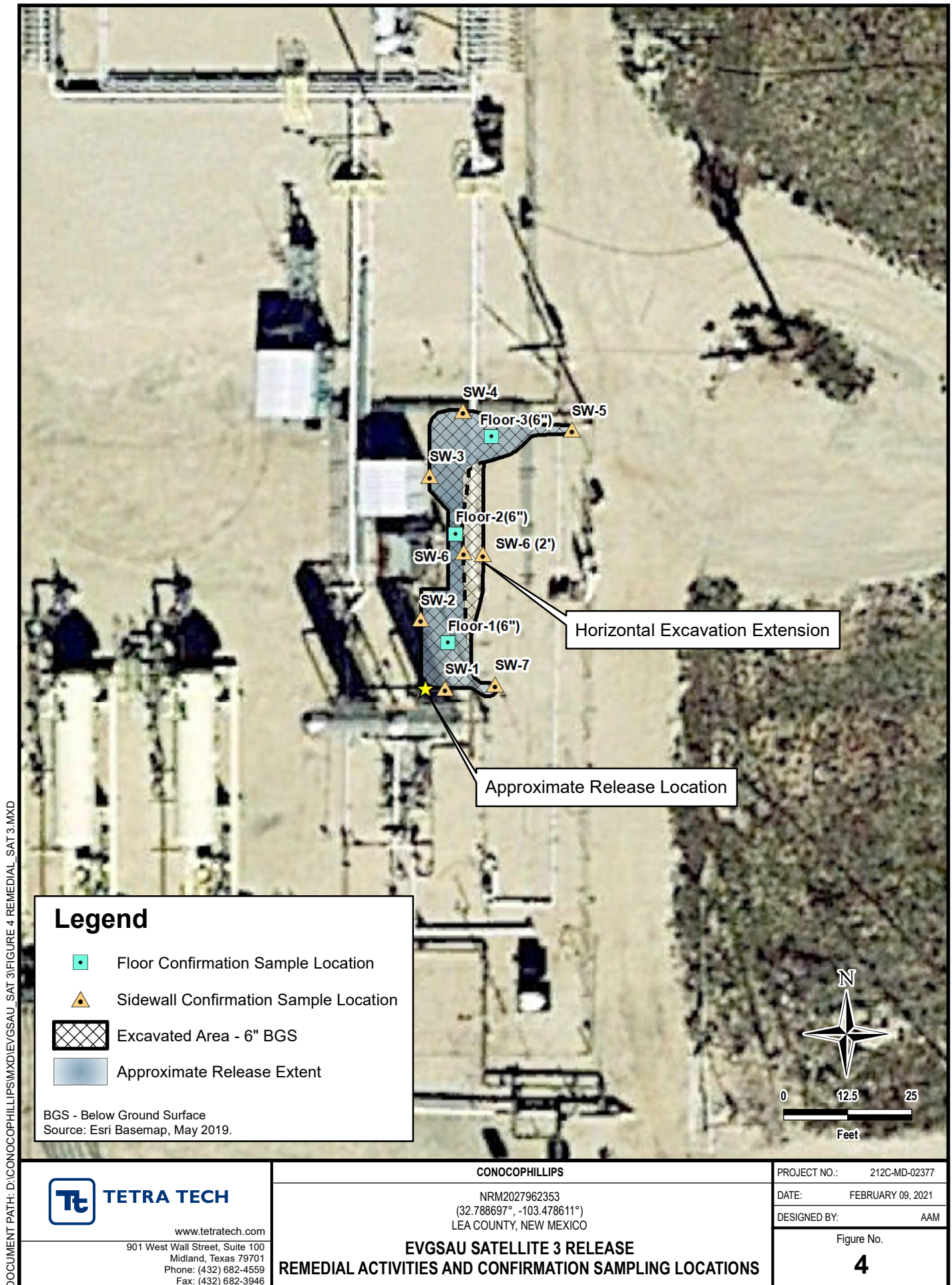
DATE: FEBRUARY 09, 2021

DESIGNED BY: AAM

Figure No.

2





TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
EVGSAU SATELLITE #3 RELEASE - nRM2027962353
LEA COUNTY, NM

Sample ID	Sample Date	Sampled Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH	
		ft. bgs			ppm	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		mg/kg
Floor-1	12/29/2020	0.5	-	-	2,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		90.2		59.3		150	
Floor-2	12/29/2020	0.5	-	-	6,400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		461		230		691	
Floor-3	12/29/2020	0.5	-	-	4,560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		328		100		428	
SW-1	12/29/2020	-	-	-	3,560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		18.3		< 10.0		18.3	
SW-2	12/29/2020	-	-	-	6,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		135		63.3		198	
SW-3	12/29/2020	-	-	-	3,040		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		149		58.9		208	
SW-4	12/29/2020	-	-	-	656		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,210		276		1,486	
SW-5	12/29/2020	-	-	-	3,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,120		459		1,579	
SW-6	12/29/2020	-	-	-	784		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		11.5		2,860		638		3,510	
SW-6 (2')	1/26/2021	-	-	10.2	3,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		20.8		< 10.0		20.8	
SW-7	12/29/2020	-	-	-	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		760		857		1,617	

NOTES:

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

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

QUALIFIERS:

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

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

Incident ID	NRM2027962353
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.com	Incident # (assigned by OCD)	
Contact mailing address	29 Vacuum Complex Lane, Lovington, NM 88260		

Location of Release Source

Latitude 32.7888 Longitude -103.479
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	VACCUM SATELLITE 3	Site Type	On location
Date Release Discovered	9/19/20	API# (if applicable)	N/A

Unit Letter	Section	Township	Range	County
J	32	17S	35E	Lea

Surface Owner: ☒ 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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	0.85	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	7.6	Volume Recovered (bbls)	0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

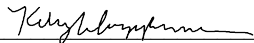
Corroded pipe

Incident ID	NRM2027962353
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Kelsy Waggaman</u>	Title: <u>Environmental Coordinator</u>
Signature: <u></u>	Date: <u>10/04/20</u>
email: <u>Kelsy.Waggaman@ConocoPhillips.com</u>	Telephone: <u>505-577-9071</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>10/14/2020</u>

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

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

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

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

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.

State of New Mexico
Oil Conservation Division

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Incident ID	
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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: _____

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: _____

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: _____

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04829 S	L	LE		3	4	32	17S	35E		642554	3628586*	312	198	85	113
L 04931	L	LE		1	2	05	18S	35E		642561	3628183*	709	237	70	167

Average Depth to Water: **77 feet**

Minimum Depth: **70 feet**

Maximum Depth: **85 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 642467.467

Northing (Y): 3628886.14

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.

2/1/21 10:34 PM






Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Karst Potential Map

COP EVGSAU Satellite #3


Legend

-  (32.788731°, -103.478598°)
-  CRIT
-  HIGH
-  LOW
-  MEDIUM



Lovington Lovington

Lea

 (32.788731°, -103.478598°)

Hobbs Hobbs

Google Earth

© 2020 Google

Imagery Landsat / Copernicus

Released to Imaging: 3/29/2021 9:27:04 AM

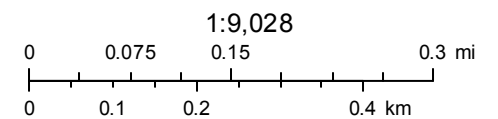
20 mi



New Mexico NFHL Data



January 14, 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

APPENDIX C

Laboratory Analytical Data



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

December 30, 2020

JOSH MITCHELL

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: EVGSAU SATELLITE 3

Enclosed are the results of analyses for samples received by the laboratory on 12/29/20 13:45.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: FLOOR-1 (6") (H003349-01)

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	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTEX	<0.300	0.300	12/29/2020	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	2160	16.0	12/30/2020	ND	400	100	400	11.3	

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	12/29/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	90.2	10.0	12/29/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	59.3	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: FLOOR-2 (6") (H003349-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	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	6400	16.0	12/30/2020	ND	400	100	400	11.3		

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	12/30/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	461	10.0	12/30/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	230	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: FLOOR-3 (6") (H003349-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	12/30/2020	ND	400	100	400	11.3		

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	12/29/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	328	10.0	12/29/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	100	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-1 (H003349-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	12/30/2020	ND	400	100	400	11.3		

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	12/29/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	18.3	10.0	12/29/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-2 (H003349-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	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	6960	16.0	12/30/2020	ND	400	100	400	11.3	

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	12/29/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	135	10.0	12/29/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	63.3	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-3 (H003349-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	12/30/2020	ND	400	100	400	11.3		

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	12/29/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	149	10.0	12/29/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	58.9	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-4 (H003349-07)

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	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTEx	<0.300	0.300	12/29/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/30/2020	ND	400	100	400	11.3	

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	12/30/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	1210	10.0	12/30/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	276	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-5 (H003349-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47		
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781		
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20		
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989		
Total BTX	<0.300	0.300	12/29/2020	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	3200	16.0	12/30/2020	ND	400	100	400	11.3		

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	12/30/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	1120	10.0	12/30/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	459	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 141 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-6 (H003349-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/30/2020	ND	400	100	400	11.3	

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*	11.5	10.0	12/30/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	2860	10.0	12/30/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	638	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 180 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	Cool & Intact
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY NM		

Sample ID: SW-7 (H003349-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989	
Total BTX	<0.300	0.300	12/29/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/30/2020	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	12/30/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	760	50.0	12/30/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	857	50.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Conoco Phillips</u>				P.O. #:				BILL TO				ANALYSIS REQUEST			
Project Manager: <u>She Tyler w/ Tetra Tech</u>				Company: <u>Conoco Phillips</u>											
Address:				Attn: <u>Josh Mitchell</u>											
City:				Address: <u>joshua.s.mitchell@conocophillips.com</u>											
Phone #: <u>(432) 210-6952</u>				Fax #:				City: <u>conocophillips.com</u>							
Project #:				State:				Zip:							
Project Name: <u>ConocoPhillips EVGSAU Satellite #3 Release</u>				Phone #: <u>(575) 681-8168</u>											
Project Location: <u>EVGSAU Satellite #3</u>				Fax #:											
Sampler Name: <u>Joe Tyler</u>															
FOR LAB USE ONLY															

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						BTEX	TPH	Chlorides	
<u>HE03349</u>	<u>Floor-1 (6")</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>10-29-20</u>	<u>1000</u>	<u>X</u>			
	<u>Floor-2 (6")</u>													<u>1010</u>				
	<u>Floor-3 (6")</u>													<u>1030</u>				
	<u>SW-1</u>													<u>1040</u>				
	<u>SW-2</u>													<u>1050</u>				
	<u>SW-3</u>													<u>1100</u>				
	<u>SW-4</u>													<u>1110</u>				
	<u>SW-5</u>													<u>1120</u>				
	<u>SW-6</u>													<u>1130</u>				
	<u>SW-7</u>																	

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Relinquished By: <u>Joe Tyler</u>		Date: <u>10/29/20</u>		Received By: <u>Josh Mitchell</u>		Date: <u>10/29/20</u>	
Relinquished By:		Date:		Received By:		Date:	

Delivered By: (Circle One) <input checked="" type="checkbox"/> Sampler - UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other:	Observed Temp. °C <u>4.8</u> Corrected Temp. °C	Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <u>[Signature]</u>	Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush	Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C
REMARKS: <u>joshua.s.mitchell@conocophillips.com ; joe.tyler@tetratech.com</u>				Thermometer ID #113	Correction Factor <u>None</u>	Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

January 28, 2021

JOE TYLER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: EVGSAU SATELLITE 3

Enclosed are the results of analyses for samples received by the laboratory on 01/26/21 12:30.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2021	Sampling Date:	01/26/2021
Reported:	01/28/2021	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE 3	Sampling Condition:	** (See Notes)
Project Number:	EVGSAU SATELLITE #3 RELEASE	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY NM		

Sample ID: SW-6 (2') (H210183-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTX	<0.300	0.300	01/27/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	01/27/2021	ND	400	100	400	0.00	QM-07	

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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	20.8	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.9 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

APPENDIX D

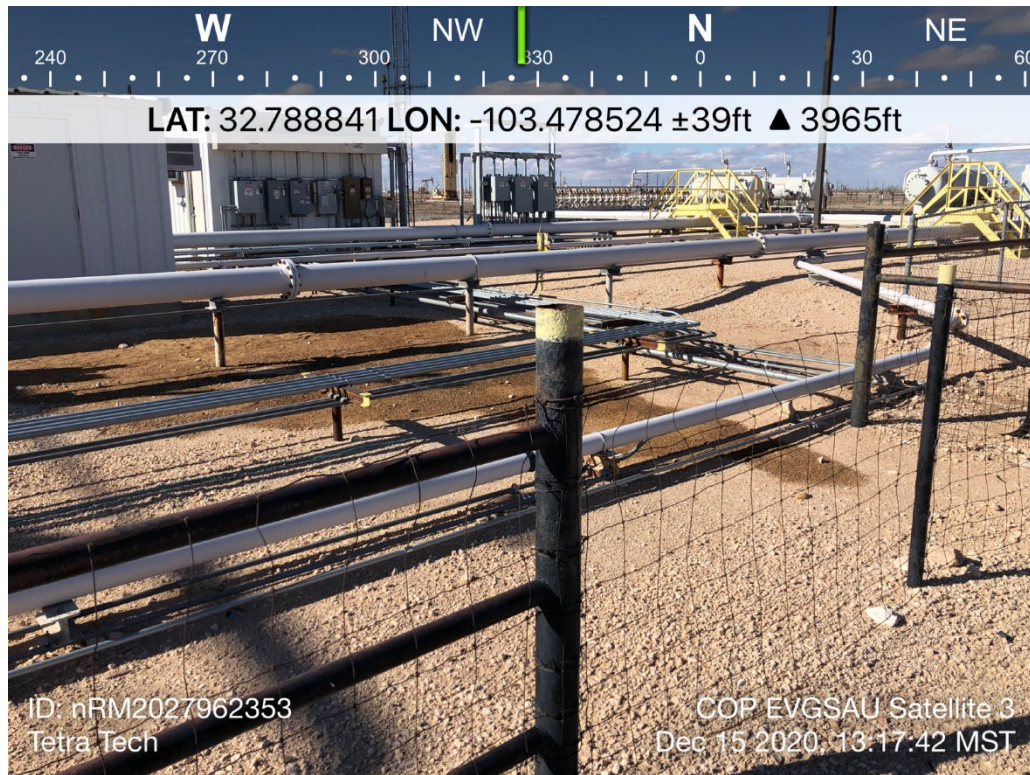
Photographic Documentation



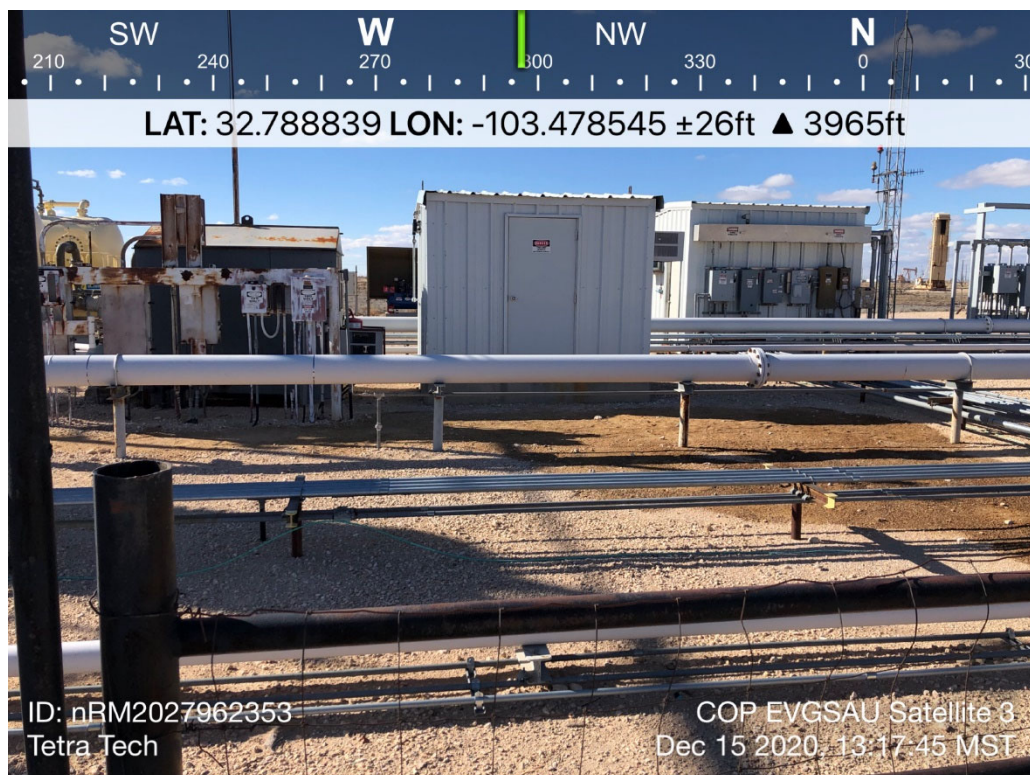
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex.	1
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/15/2020



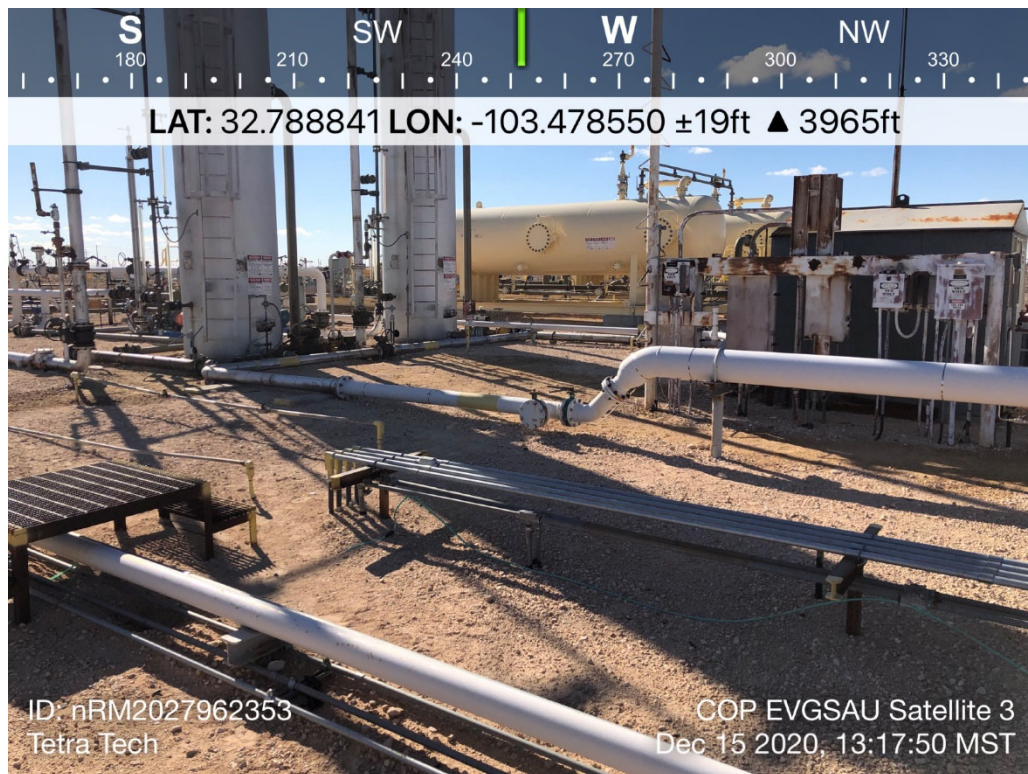
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex.	2
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/15/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex.	3
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/15/2020



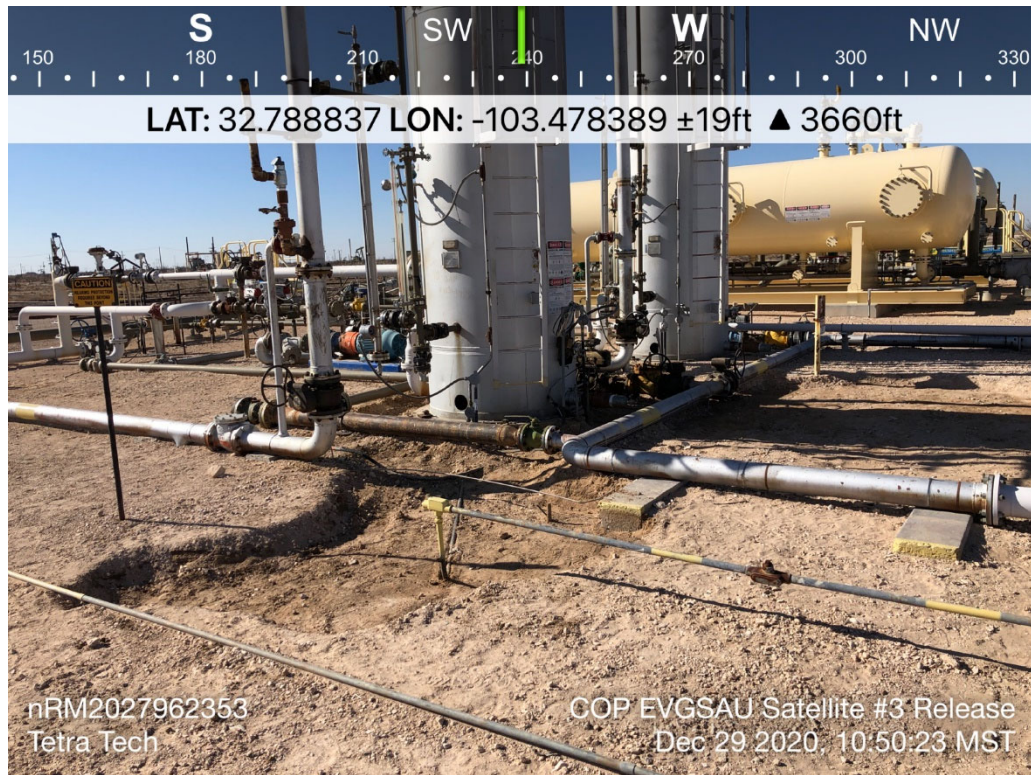
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex.	4
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/15/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex.	5
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/15/2020



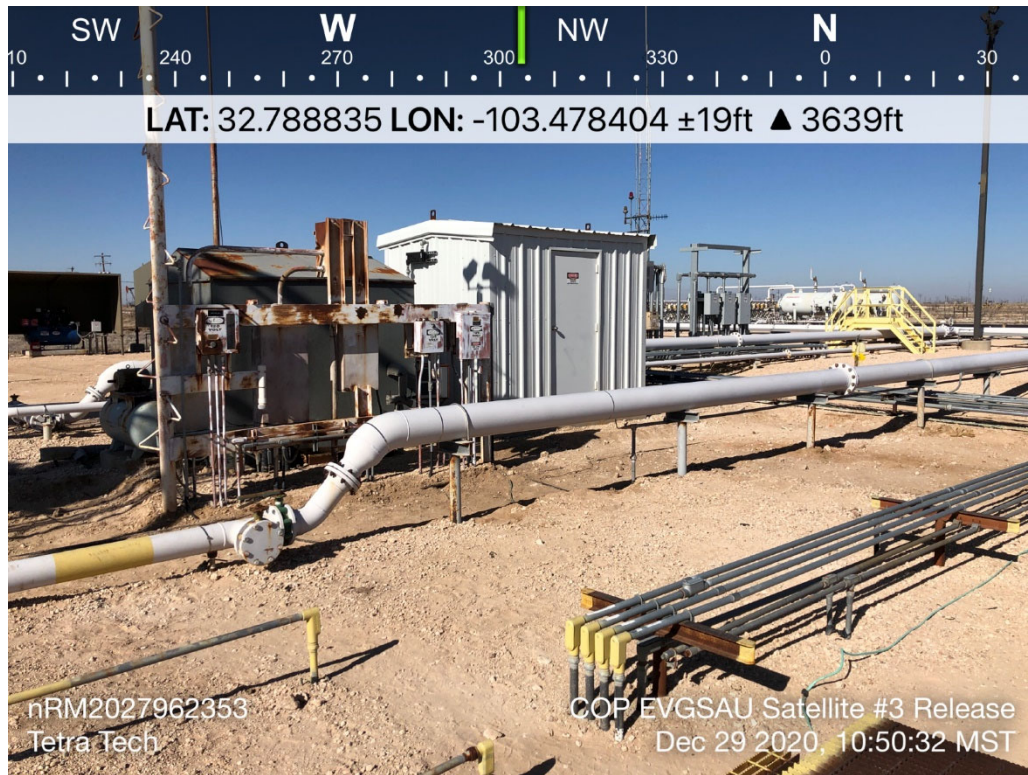
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex.	6
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/15/2020



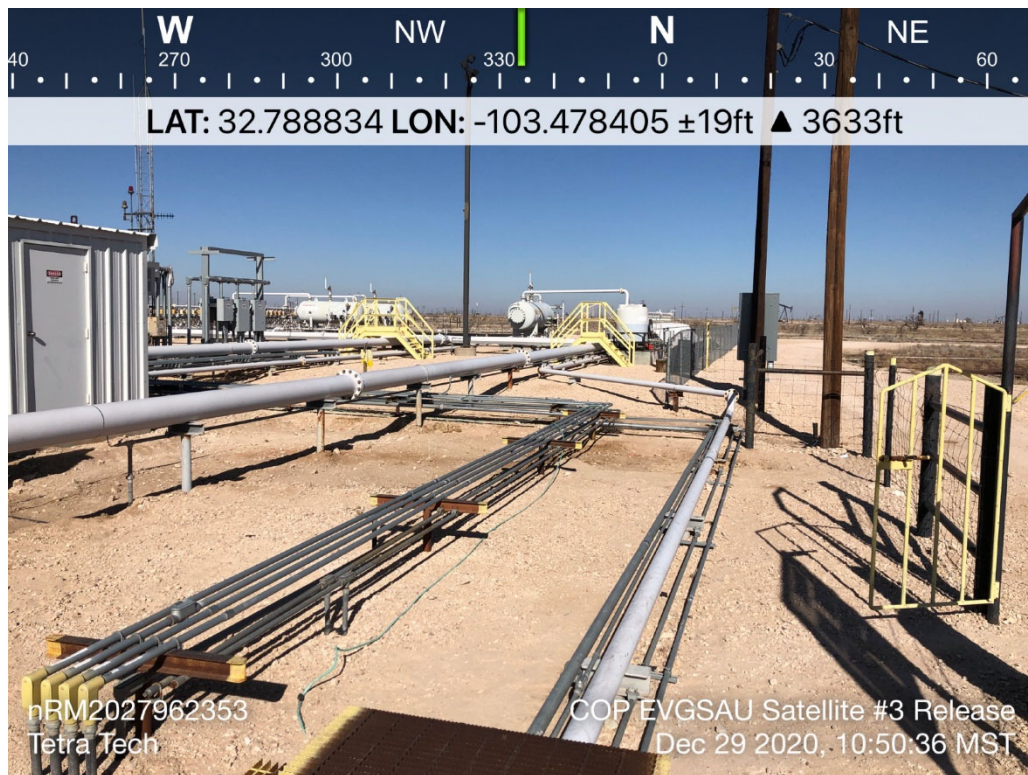
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex after the completion of a 6-inch excavation.	7
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/29/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex after the completion of a 6-inch excavation.	8
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/29/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex after the completion of a 6-inch excavation.	9
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/29/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the release area within the Satellite #3 complex after the completion of a 6-inch excavation.	10
	SITE NAME	ConocoPhillips EVGSAU Satellite #3 Release	12/29/2020

APPENDIX E

Waste Manifests

TRANSPORTER'S MANIFEST

MANIFEST # _____

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: Buckeye office
Project Lead: Josh Mitchell

LOCATION OF MATERIAL:

Location: EVGSAU satellite #3
Company: Conoco Phillips

S 32 T 175 R 35E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil Cont.

Quantity: 10 yds

11

FACILITY CONTACT:

Date: 12/22/20

Contact Signature:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 12/22/20

Driver Signature:

DISPOSAL SITE:

Name of Disposal:

Address: R-360

Date: 12/22/20

Representative
Signature:

m-02



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JOSH MITCHELL
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 12/22/2020
 Hauler: MCNABB PARTNERS
 Driver: MALINDA
 Truck #: M02
 Card #
 Job Ref #

Ticket #: 700-1185062
 Bid #: O6UJ9A0009Z1
 Date: 12/22/2020
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 02978
 Well Name: EAST VACUUM GSA UNIT
 Well #: 003
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JOSH MITCHELL
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 12/22/2020
 Hauler: MCNABB PARTNERS
 Driver: MALINDA
 Truck #: M02
 Card #
 Job Ref #

Ticket #: 700-1185193
 Bid #: O6UJ9A0009Z1
 Date: 12/22/2020
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 02978
 Well Name: EAST VACUUM GSA UNIT
 Well #: 003
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units									
Contaminated Soil (RCRA Exempt)	10.00 yards									
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0					

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

APPENDIX F NMOCD Extension

Waggaman, Kelsy

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, January 7, 2021 11:11 AM
To: Waggaman, Kelsy
Subject: [EXTERNAL]Remediation Extension Applications

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

01/07/2021

Conoco Phillips
Kelsy Waggaman – Conoco Phillips

Dear Kelsy,

For the locations/incidents indicated below and their associated time extension requests, the following:

The extensions for all three of the sites below are hereby APPROVED to the requested extension deadlines indicated in listing below. The Oil Conservation Division (OCD) appreciates your efforts. Thank you for the reminder, and please keep a copy of this communication for all three sites as no PAPER copy will follow.

Location	Incident Number	Date of Release	90-day Remediation Deadline	Requested Extension/Deadline	Nature of Release	Category and Volume of Release
Warren 19	NRM2032853982	10/20/20	1/18/20	4/18/21	Produced Water	Minor - 19 bbl
Tomahawk 19	NRM2028029792	9/25/25	12/24/20	3/24/21	Crude Oil	Major - 28 bbl total/ 10 bbl recovered
Satellite 3	NRM2027962353	9/19/20	12/18/20	3/18/21	Produced Water	Minor - 9 bbl

Sincerely,

Bradford Billings • Enviro. Spec. A
Environmental Bureau
EMNRD - Oil Conservation Division

5200 Oakland Ave. NE Suite 100 | Albuquerque, NM 87113
505.670.6549. |bradford.billings@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations

Incident ID	NRM2027962353
District RP	
Facility ID	
Application ID	

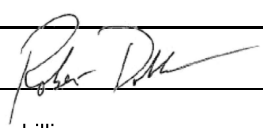
Closure

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: Robert Dobbs Title: Surface Projects Supervisor
Signature:  Date: 2/22/2021
email: robert.a.dobbs@conocophillips.com Telephone: 281-455-0821

OCD Only

Received by: Chad Hensley Date: 03/29/2021

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: 03/29/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 18541

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CONOCOPHILLIPS COMPANY P.O.Box 2197 Office SP2-12-W156 Houston, TX77252	217817	18541	C-141

OCD Reviewer	Condition
chensley	None