TETRA TECH

May 9, 2024

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

Re: Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
Philmex #15 Flowline Release
Unit Letter H/I, Section 33, Township 17 South, Range 35 East
Lea County, New Mexico
Incident ID# nJXK1532944122

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips Company (COP) to complete the Site characterization, assessment, and remediation work plan for a release that occurred from the flowline of the Philmex #15 well (Associated API No. 30-025-27402). The release footprint is located in Public Land Survey System (PLSS) Unit Letter E, Section 27, Township 17 South, Range 33 East, in Lea County, New Mexico at coordinates 32.808918°, -103.657241° (Site), as shown in **Figures 1** and **Figure 2.**

BACKGROUND

According to the State of New Mexico C-141 Initial Report, a release from a fiber spar line was discovered on November 24, 2015. Approximately 2.5 barrels (bbls) of produced water and 5 bbls of oil (7.5 bbls in total) were released, of which 5 bbls of produced water/oil were recovered. The NMOCD subsequently assigned the release Incident ID nJXK1532944122. This release is included in an Agreed Compliance Order-Releases (ACOR) between ConocoPhiOP and the NMOCD signed on May 7 and 9, 2019, respectively. The release extent is shown in **Figure 3.** Initial C-141 Release Notification forms are available in the previously submitted and NMOCD-approved Release Characterization and Remediation Work Plan by Tetra Tech dated March 8, 2021.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed 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 19.15.29 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of low karst potential.

Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile of the Site. However, there are five (5) water wells within 2 miles of the Site. The average depth to groundwater is 184 feet (ft) below ground surface (bgs). As no depth to groundwater information is publicly available within ½-mile of the Site, groundwater depth will be assumed as less than 50 feet below ground surface (bgs) for the context of remediation requirements. The site characterization data is included in **Attachment 1**.

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Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loamy soil type. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

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 chloride 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 for groundwater that has not been demonstrated with data within ½ mile defaults to the most stringent remediation and reclamation requirements for groundwater at depths of less than 50 feet bgs follows:

Reclamation Requirements

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL SITE ASSESSMENT

Initial Sampling Activities

Basin Environmental Service Technologies (Basin) prepared a Corrective Action Plan (CAP) dated August 3, 2016, on behalf of COP that was reportedly approved by the NMCOD. The Basin CAP is provided in **Attachment 2**. The CAP states that on December 4, 2015, Basin visited the Site to map and photograph the release extent. Basin returned to the Site on December 9th and 10th, 2015 to collect soil samples at three (3) locations (Points 1, 2, and 3) within the release extent footprint at depths ranging from 2.5 feet to 3.5 feet bgs. Basin did not collect samples from the perimeter of the release extent during these assessment activities. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM45000Cl-B.

Initial Sampling results

Analytical results associated with the three (3) sample locations (Points 1, 2, and 3) reported chloride concentrations as greater than the reclamation requirement of 600 mg/kg at depths of 2 feet bgs, 1 foot bgs, and 1 foot bgs, respectively. The sample collected at 1 foot bgs at Point 2 exceeded the limit for TPH (100 mg/kg). In addition, the sample collected at 1 foot bgs at location Point 3 reported total BTEX and TPH concentrations as greater than respective Reclamation Requirements. Copies of the analytical laboratory reports including chain-of-custody documentation, figures from the initial assessment, and photographic documentation are included in the CAP in **Attachment 2**.

INITIAL REMEDIATION

Following the results of the initial Site assessment, Basin recommended that the release extent be excavated to depths of 3 feet bgs in the area around Point 1, 3.5 feet bgs in the area around Point 2, and 2.5 feet bgs in the area around Point 3, as shown in the CAP. The CAP was submitted to the NMOCD on August 3, 2016, and subsequently approved and is also available from the NMOCD Online Imaging portal under Incident ID nJXK1532944122.

Basin photographs taken on December 16, 2015, indicate evidence of remedial actions taken at the. The photograph captions in the CAP indicate that the top 1 foot bgs of soil in the release footprint was removed shortly following the initial assessment activities. Historical aerial imagery from February 2017 indicates an area of disturbed soils that is larger than the release footprint as shown in **Figure 3**. On behalf of COP, Tetra Tech conducted a visual Site inspection in July 2020 to evaluate current conditions at the Site. A lack of vegetative cover was noted in the observed excavated area. Photographic documentation of the visual Site inspection is included in **Attachment 3**.

ADDITIONAL SITE ASSESSMENT

Additional Sampling Activities

In order to verify whether Basin remedial actions taken at the Site were effective, Tetra Tech personnel conducted soil sampling in November and December 2020 and January 2021 on behalf of COP. A total of four (4) borings (BH-1 through BH-4) were installed using an air rotary drilling rig. BH-1 was installed within the observed remediation extent and BH-2 was installed within the former release footprint, each to a depth of 20 feet bgs. BH-3 and BH-4 were installed along the perimeter of the release extent (to the east and north, respectively) to depths of 4 feet bgs to achieve horizontal delineation. In addition, a total of three (3) hand auger borings (AH-1, AH-2, and AH-3) were advanced along the southern perimeter to depths of 1 foot bgs to complete horizontal delineation of the release extent. Soils at the Site consist of light brown to tan loose silty sands from the surface down to 20 feet bgs. **Figure 3** depicts the release extent and the 2020 Tetra Tech soil assessment locations. Coordinates for the boring locations are presented in **Table 1**.

A total of 20 samples were collected from the seven (7) borings and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Mount Juliet, Tennessee for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method 300.0. Copies of the laboratory analytical report including chain-of-custody documentation were previously submitted to the NMOCD in the NMOCD-approved Release Characterization and Remediation Work Plan available from the NMOCD Online Imaging portal under Incident ID nJXK1532944122.

Additional Assessment Sampling Results

Results from the November and December 2020 and January 2021 soil assessment sampling events are summarized in **Table 2**. The analytical results associated with the boring location AH-2 reported a total TPH concentration of 142 mg/kg, slightly greater than the Reclamation Requirement of 100 mg/kg in the 0-1 foot bgs sample interval. Boring location AH-2 is not located within the former release footprint and is likely historical contamination not related to the nJXK1532944122 release. The analytical results associated with the remaining sample locations reported constituent concentrations as less than applicable Reclamation Requirements. Based on the analytical results, the remedial actions taken at the Site by Basin successfully removed impacted material within the former release footprint.

NMOCD-APPROVED REMEDIATION WORK PLAN

Given that analytical results associated with boring location AH-2 reported a total TPH concentration as greater than Reclamation Requirements, COP proposed to remove the impacted material in the area around AH-2 as depicted in the remediation work plan. Impacted soils were proposed to be excavated using heavy equipment to an approximate depth of 2 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation reported constituent concentrations as less than Reclamation Requirements. The remediation work plan proposed that if sampling results indicate that soils below 4 feet bgs reported concentrations of constituents as greater than Reclamation Requirements that a liner at the base of the 4 foot excavation would be installed to prevent the downward migration of contaminants. Excavated soils were proposed to be transported offsite and disposed of at an NMOCD-approved or permitted facility with confirmation bottom and sidewall samples to be analyzed for TPH, BTEX, and chloride.

The NMOCD approved the remediation work plan on April 21, 2023, with the following stipulations:

- Floor confirmation samples must be delineated/excavated to meet closure criteria standards for proven depth-to-water determination;
- Sidewall samples must be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release; and
- The variance request for the use of a liner is not approved.

Figure 4 shows the proposed remediation extents and methods presented in the Remediation Work Plan.

ARCHEOLOGICAL RECORDS MANAGEMENT SECTION REVIEW

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech conducted an Archaeological Survey for the Site. The Archeological Survey findings under NMCRIS Activity Number were reported as Negative – No further archaeological review is required for the project area within NMSLO-managed lands on lease number B022290001, GS12850000. No subsurface cultural materials were encountered during remediation activities. The redacted ARMS Review letter is included in **Attachment 4**.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposed an alternative confirmation sampling plan to include one (1) confirmation floor sample and six (6) confirmation sidewall samples for verification of remedial activities of the proposed excavation encompassing approximately 780 square feet.

The proposed confirmation sidewall and floor samples would be representative of no more than approximately 500 square feet of excavated area to be submitted for analysis of BTEX, TPH, and chloride. The alternative confirmation sampling plan stipulated that upon receipt of analytical results, the NMOCD would be notified and the excavation then be backfilled with clean material to surface grade.

The NMOCD approved the alternative confirmation sampling plan for confirmation sidewall and floor samples representative of no more than approximately 400 square feet on April 21, 2023.

REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on January 29, 2023, and concluded on January 31, 2024. Maverick's subcontractor, McNabb Partners (McNabb) used heavy equipment to excavate impacted soil from the remediation areas to a depth of 2.0 feet bgs as shown in **Figure 4**. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. A total of 90 cubic yards of

contaminated soil was excavated from an approximately 1,200-square-foot area and transported the soil to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 10 final confirmation samples including three (3) 5-point composite floor samples and seven (7) five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling area was comprised of an approximately 1,200 square foot base and 350 square feet of sidewall for a total area of 1,550 square feet and a sampling density of approximately one confirmation sample per 155 square feet.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements demonstrating clean margins. Confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3** and laboratory analytical data packages including chain of custody documentation remediation confirmation sampling are included in **Attachment 5**. Confirmation sampling locations and excavation extents are shown in **Figure 5**.

Excavation Backfill

Between February 5 and February 6, 2024, subsequent to the receipt of confirmation sample results, McNabb completed the backfilling of the excavated areas with 90 cubic yards of clean soil sourced from Seth Boyde Pit. Photographic Documentation showing the backfilled areas and final grading after backfilling and seeding is provided in **Attachment 3**.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with clean topsoil. The disturbed areas have been graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed pasture areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and raked in per the specifications for broadcast application in pound pure live seed per acre according to the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 6.** The area shown in **Figures 4** and **5** proposed for seeding was already revegetating, and so was overseeded with the NMSLO Loamy (L) seed mix.

Site inspections will be performed periodically 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.

Revegetation will be considered complete once uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels or a vegetative cover approved by NMSLO. Upon completion of Revegetation, Tetra Tech will prepare and submit a Revegetation Report in accordance with the *EMNRD Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* requirements.

VARIANCE REQUEST

Tetra Tech and Maverick understand that failure to notify the NMOCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. The remediation associated with this incident was conducted concurrently with a number of other remediations subsequent to the 2023 holiday period. Tetra Tech failed to notify the NMOCD of confirmation sampling two business days in advance in accordance with 19.15.29.12.D.(1).(a). Tetra Tech respectfully requests a variance for the failure to notify the NMOCD of sampling in consideration of the significant changes to the NMOCD notification process and changes that were implemented by the NMOCD in early December 2023.

Tetra Tech has reviewed the C-141N notification process and NMOCD *Public Notice Implementation of Digital C-141 and Incident Statuses* document dated December 1, 2023, and has shifted to strictly adhering to the sampling notification requirements of 19.15.29.12.D.(1).(a) NMAC and NMOCD notification guidance. Tetra Tech is currently submitting C-141N notifications two business days prior to conducting remediation confirmation sampling.

CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with TPH concentrations greater than Reclamation Requirements has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material, graded, and seeded with NMSLO-approved seed mixture. Therefore, Site remediation and reclamation is complete. Revegetation monitoring will be conducted at the Site and a Revegetation Report will be submitted to the NMOCD under separate cover containing the NMOCD required information upon completion of revegetation. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at Charles.Terhune@tetratech.com or by phone at (832) 252-2093.

Sincerely,

Chris Straub
Project Manager
Tetra Tech, Inc.

Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.

cc: Bryce Wagoner, Maverick Permian, LLC
New Mexico State Land Office

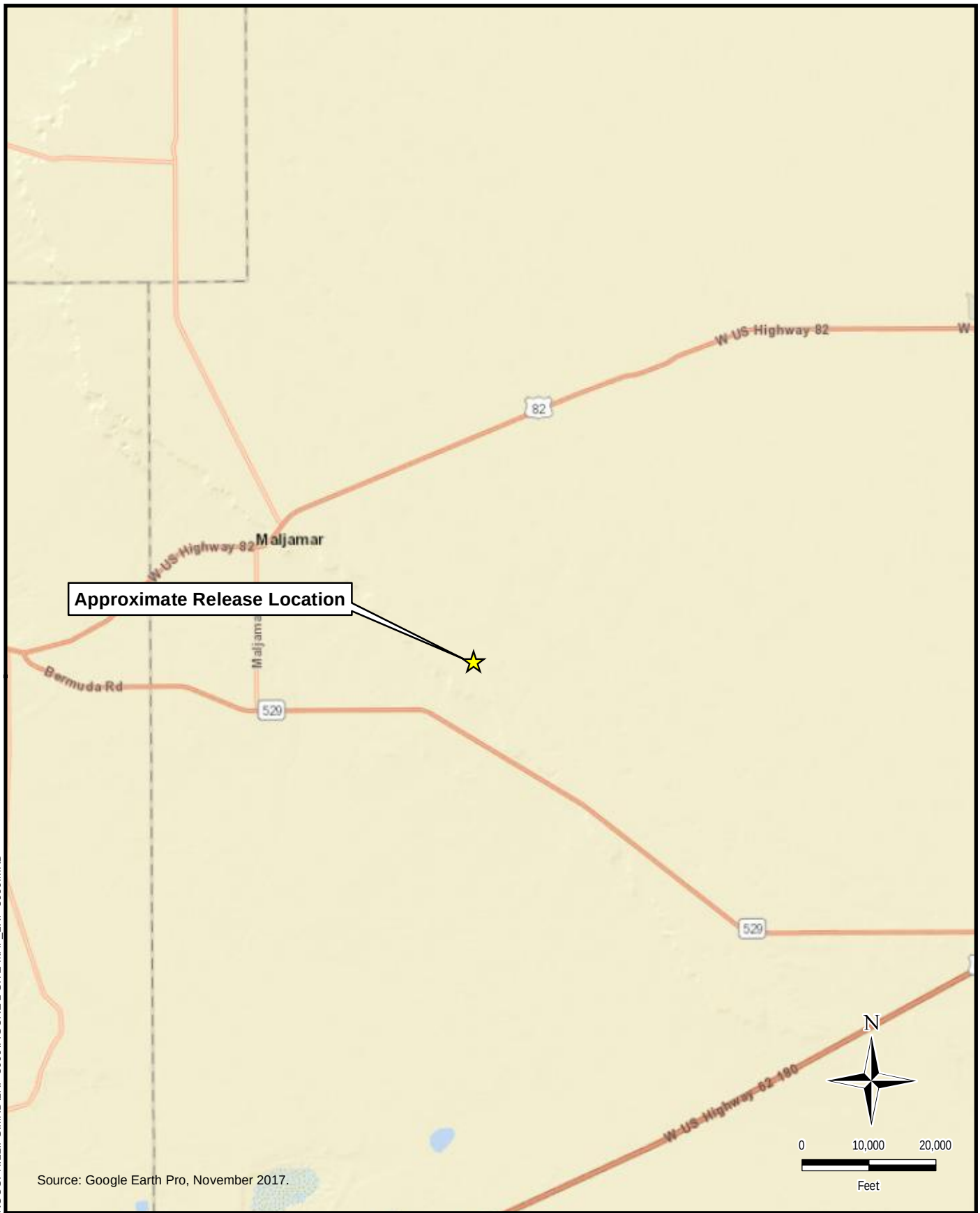
LIST OF ATTACHMENTS

Figures

Tables

Attachments

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-3999\FIGURE 1 SITE MAP_1RP-3999.MXD

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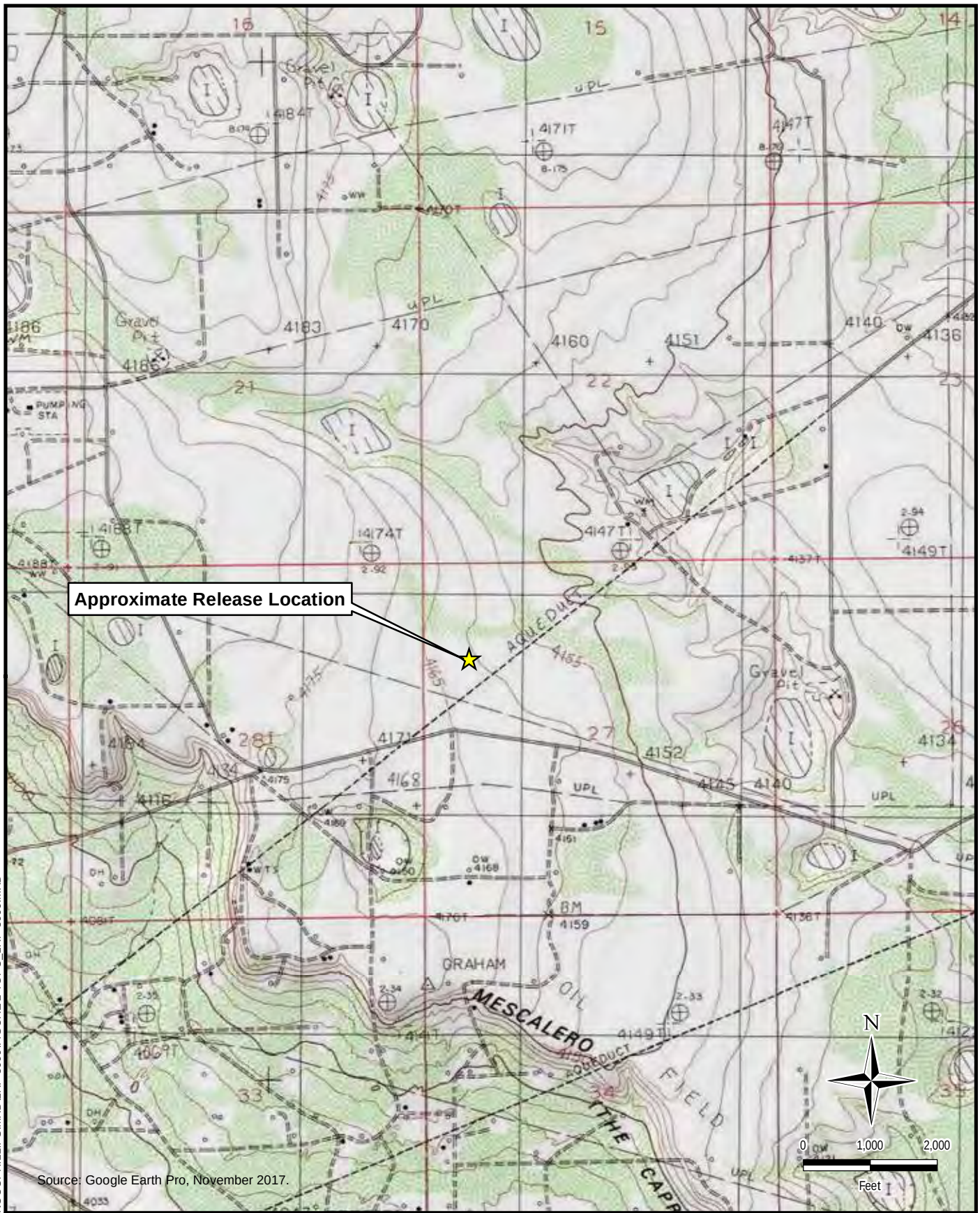
MAVERICK PERMIAN, LLC

nJXK1532944122
(32.808918°, -103.657241°)
LEA COUNTY, NEW MEXICO

PHILMEX #15 FLOWLINE RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-03355
DATE:	MAY 9, 2024
DESIGNED BY:	AJW

Figure No.
1



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MAVERICK PERMIAN, LLC

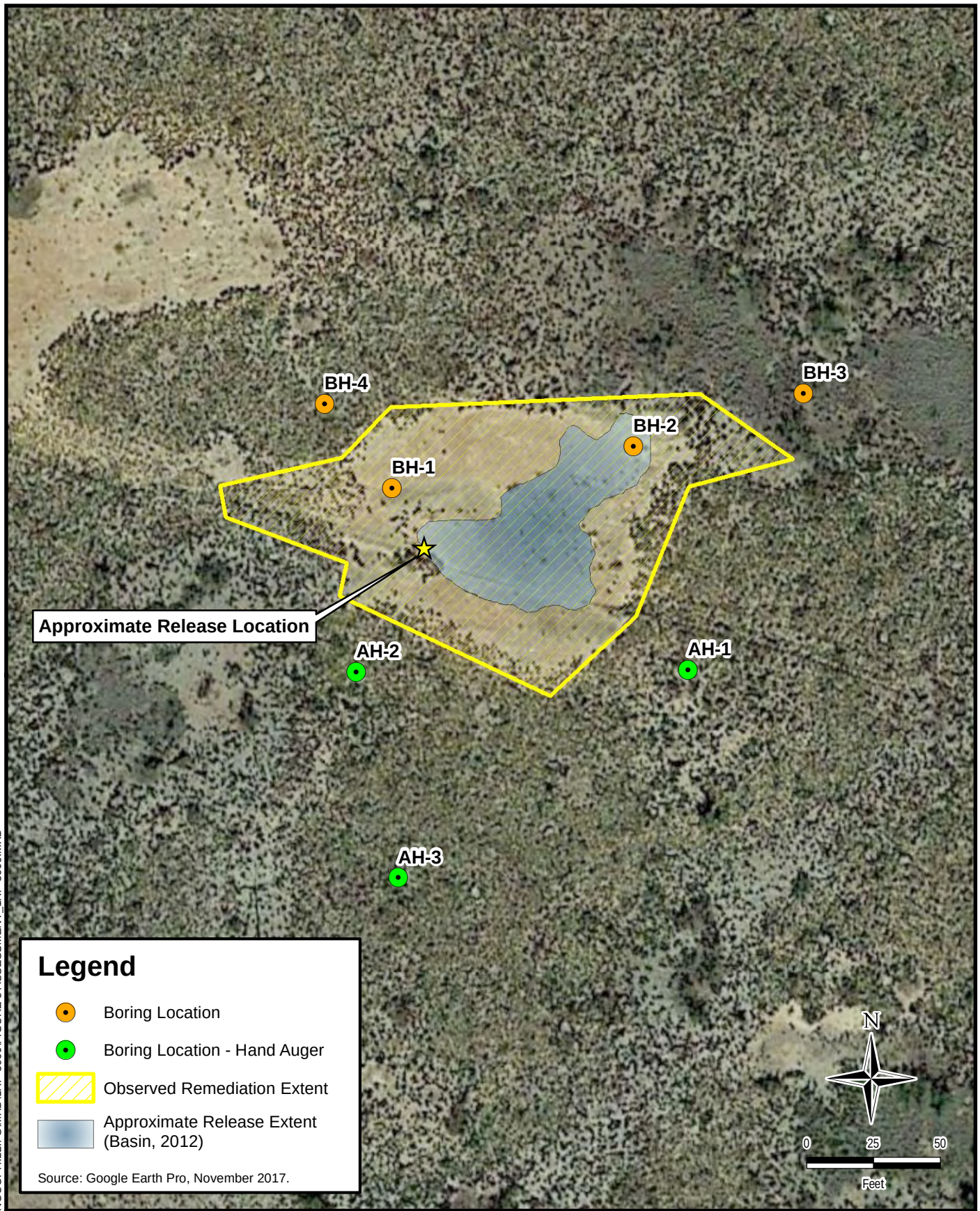
nJXK1532944122
(32.808918°, -103.657241°) LEA COUNTY, NEW MEXICO

PHILMEX #15 FLOWLINE RELEASE

TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-03355
DATE:	MAY 9, 2024
DESIGNED BY:	AJW

Figure No.
2



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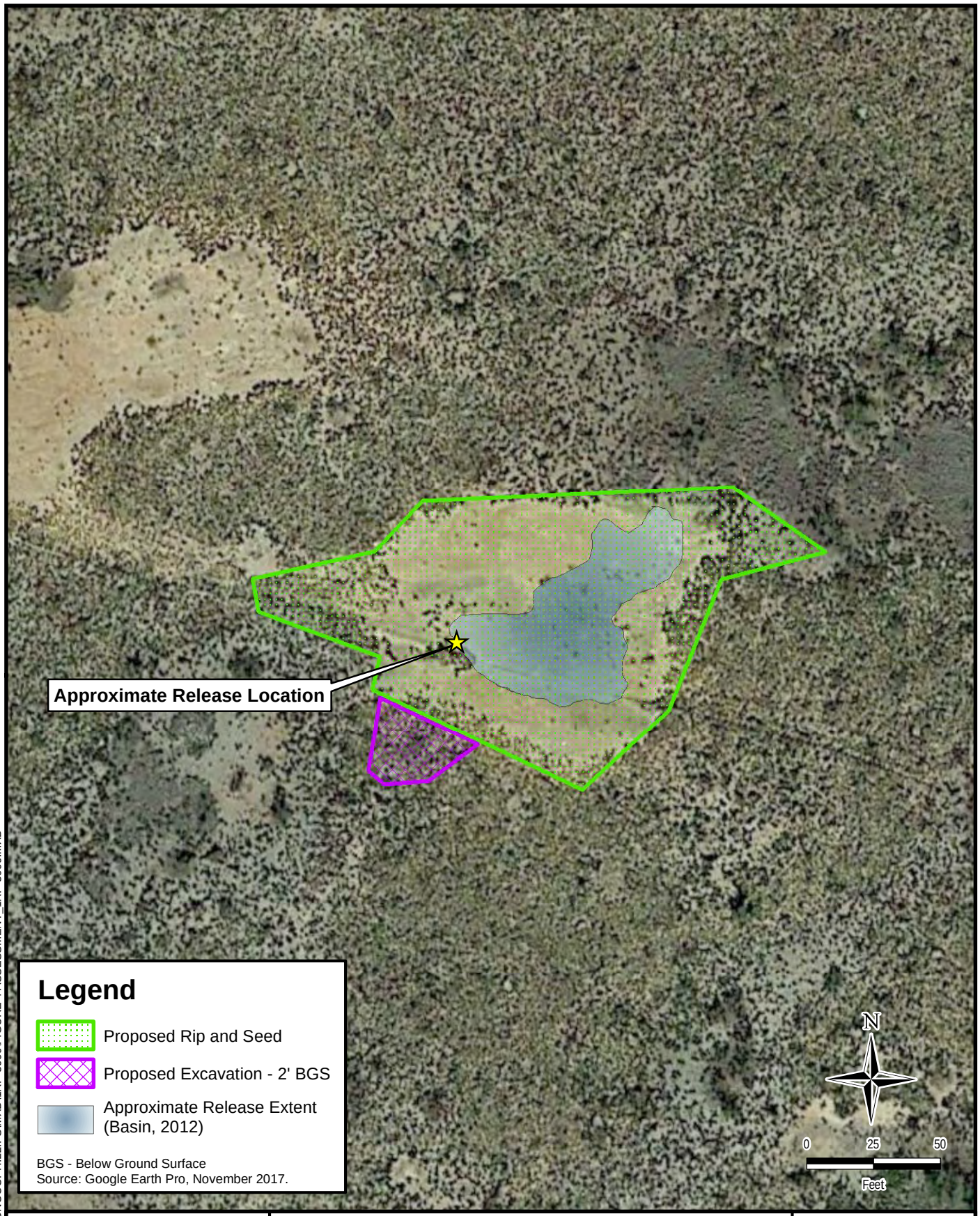
MAVERICK PERMIAN, LLC

nJXK1532944122
(32.808918°, -103.657241°)
LEA COUNTY, NEW MEXICO

PHILMEX #15 FLOWLINE RELEASE
RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-03355
DATE:	MAY 9, 2024
DESIGNED BY:	AJW

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-3999\FIGURE 4 ASSESSMENT_1RP-3999.MXD

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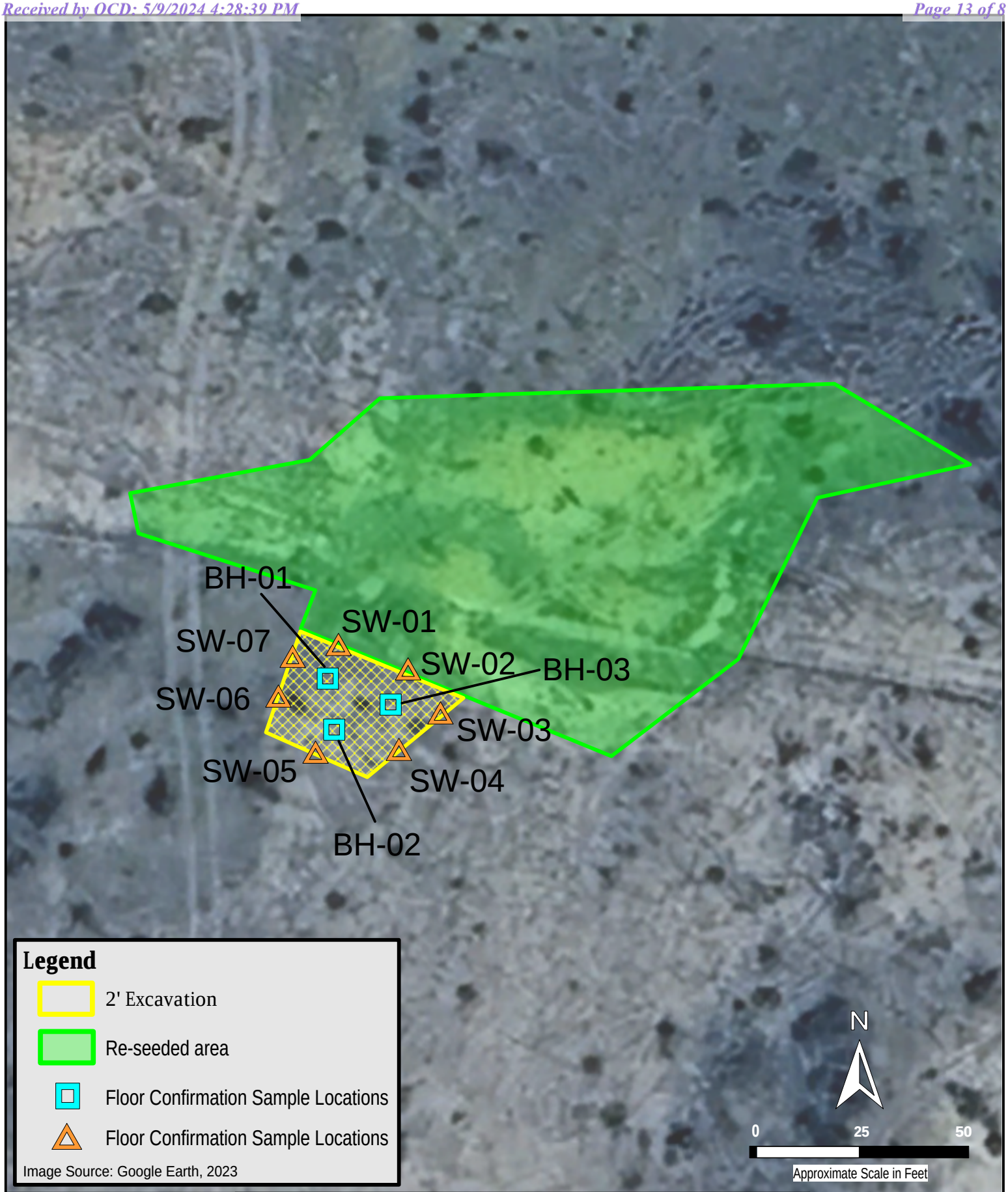
MAVERICK PERMIAN, LLC

nJXK1532944122
(32.808918°, -103.657241°)
LEA COUNTY, NEW MEXICO

PHILMEX #15 FLOWLINE RELEASE
REMEDIATION WORK PLAN EXTENT

PROJECT NO.:	212C-MD-03355
DATE:	MAY 9, 2024
DESIGNED BY:	AJW

Figure No.
4



TETRA TECH

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MAVERICK PERMIAN, LLC
nJXK1532944122
(32.808918°, -103.657241°)
Lea County, New Mexico
PHILMEX #15 FLOWLINE RELEASE
EXCAVATION AND CONFIRMATION SAMPLING

PROJECT NO:	212C-HN-03355
DATE:	MAY 9, 2024
DESIGNED BY:	CHT

Figure 5

TABLES

TETRA TECH

TABLE 1
SOIL ASSESSMENT LOCATIONS
INCIDENT ID NJXK1532944122
MAVERICK PERMIAN, LLC
PHILMEX #15 FLOWLINE FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
AH-1	12/1/2020	32.808790	-103.656921
AH-2	12/1/2020	32.808790	-103.657325
AH-3	1/14/2021	32.808579	-103.657275
BH-1	11/16/2020	32.808979	-103.657280
BH-2	11/16/2020	32.809020	-103.656986
BH-3	11/16/2020	32.809073	-103.656778
BH-4	11/16/2020	32.809066	-103.657361

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TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ASSESSMENT SAMPLING - INCIDENT ID NJXK1532944122
MAVERICK PERMIAN, LLC
PHILMEX #15 FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		ORO > C_{28} - C_{36}		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**	
AH-1	12/1/2020	0 - 1	<20.3		<0.00103		<0.00516		<0.00258		0.00132	J	0.00132		<0.102		3.22	J	18.5		21.72	
AH-2	12/1/2020	0 - 1	<20.5		<0.00105		<0.00526		<0.00263		0.00108	J	0.00108		<0.103		49.7		92.7		**142.4**	
AH-3	1/14/2021	0 - 1	<21.6		<0.00116		<0.00582		<0.00291		<0.00757		-		<0.108		4.37		15.5		19.87	
BH-1	11/16/2020	0 - 1	<20.6		<0.00106		<0.00532		<0.00266		<0.00691		-		0.0224	J	4.91		10.6		15.53	
	11/16/2020	2 - 3	23.7		<0.00106		<0.00529		<0.00265		<0.00688		-		<0.103		<4.12		1.21	J	1.21	
	11/16/2020	4 - 5	9.78		<0.00105		<0.00525		<0.00262		<0.00682		-		<0.102		<4.10		0.778	J	0.78	
	11/16/2020	6 - 7	<20.8		<0.00108		<0.00539		<0.00270		<0.00701		-		<0.104		<4.16		0.37	J	0.37	
	11/16/2020	9 - 10	12		<0.00103		<0.00513		<0.00256		<0.00667		-		<0.101		<4.05		<4.05		-	
	11/16/2020	14 - 15	<20.5		<0.00105		<0.00524		<0.00262		<0.00681		-		0.0277	B J	<4.10		<4.10		0.028	
	11/16/2020	19 - 20	<20.5		<0.00105		<0.00524		<0.00262		<0.00681		-		0.0258	B J	<4.09		0.593	J	0.026	
BH-2	11/16/2020	0 - 1	< 20.5		<0.00105		<0.00524		<0.00262		<0.00681		-		0.0355	B J	2.24	J	7.25		9.53	
	11/16/2020	2 - 3	114		<0.00107		<0.00533		<0.00267		<0.00693		-		0.0271	B J	6.26		18.9		25.19	
	11/16/2020	4 - 5	185		<0.00103		<0.00517		<0.00259		<0.00672		-		0.0255	B J	2.02	J	4.89		6.94	
	11/16/2020	6 - 7	241		<0.00107		<0.00536		<0.00268		<0.00697		-		0.0294	B J	< 4.15		0.462	J	0.49	
	11/16/2020	9 - 10	61.3		<0.00109		<0.00546		<0.00273		<0.00710		-		0.0287	B J	< 4.18		< 4.18		0.03	
	11/16/2020	14 - 15	85.6		<0.00112		<0.00558		<0.00279		<0.00725		-		0.0244	B J	< 4.23		< 4.23		0.02	
	11/16/2020	19 - 20	48.8		<0.00109		<0.00545		<0.00272		<0.00708		-		< 0.104		< 4.18		< 4.18		-	
BH-3	11/16/2020	0 - 1	<21.5		<0.00115		<0.00576		<0.00288		<0.00749		-		< 0.108		8.07		14.5		22.57	
	11/16/2020	3 - 4	<20.8		<0.00108		<0.00540		<0.00270		<0.00701		-		< 0.104		5.63		7.6		13.23	
BH-4	11/16/2020	0 - 1	<20.4		<0.00104		<0.00521		<0.00261		<0.00678		-		0.0246	B J	4.16		9.35		13.53	
	11/16/2020	3 - 4	10.2	J	<0.00105		<0.00525		<0.00262		<0.00682		-		0.0278	B J	< 4.10		4.06	B J	4.09	

NOTES:

bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

1: Method 300.0
2: Method 8021B
3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

B: The same analyte is found in the associated blank.
J: The identification of the analyte is acceptable, the reported value is an estimate.

TETRA TECH

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - INCIDENT ID nJXK1532944122
MAVERICK PERMIAN, LLC
PHILMEX #15 FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		EXT DRO > C_{28} - C_{36}		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**	
BH 1 (2')	1/31/2024	2.0 - 2.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
BH 2 (2')	1/31/2024	2.0 - 2.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
BH 3 (2')	1/31/2024	2.0 - 2.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 1	1/31/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 2	1/31/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 3	1/31/2024	0.0 - 2.0	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 4	1/31/2024	0.0 - 2.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 5	1/31/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 6	1/31/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SW 7	1/31/2024	0.0 - 2.0	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	

NOTES:

bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

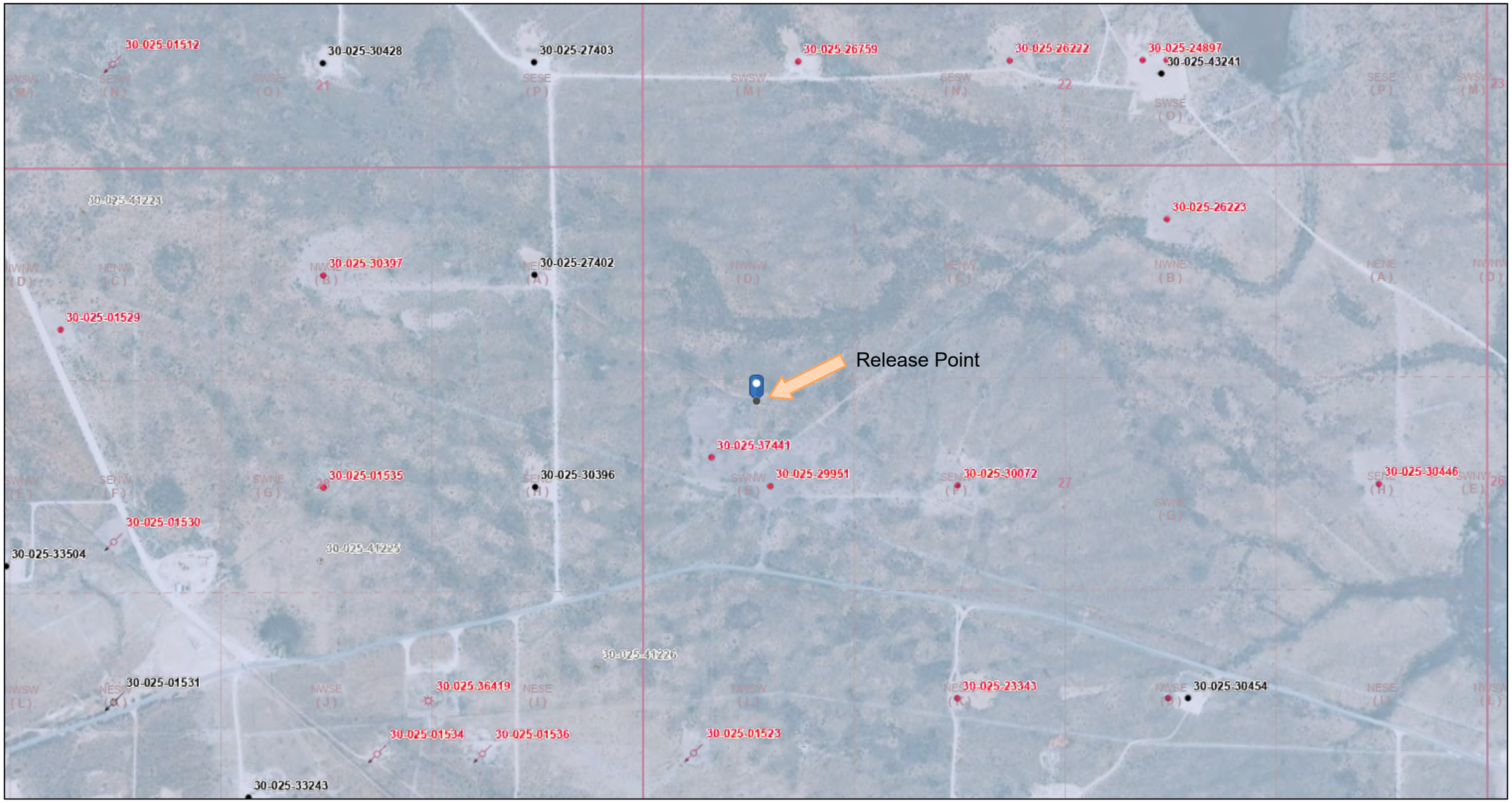
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

1: Method SM4500Cl-B
2: Method 8021B
3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

ATTACHMENT 1 – SITE CHARACTERIZATION

Philmex 15 Flowline Release OCD Well Locations Map



2/16/2024, 2:46:17 PM

1:8,508

Override 1

Wells - Large Scale

Gas, Plugged

Injection, Active

Injection, Plugged

Oil, Active

Oil, Cancelled

Oil, Plugged

Karst Occurrence Potential

Low

PLSS Second Division

PLSS First Division

0 0.07 0.15 0.3 mi

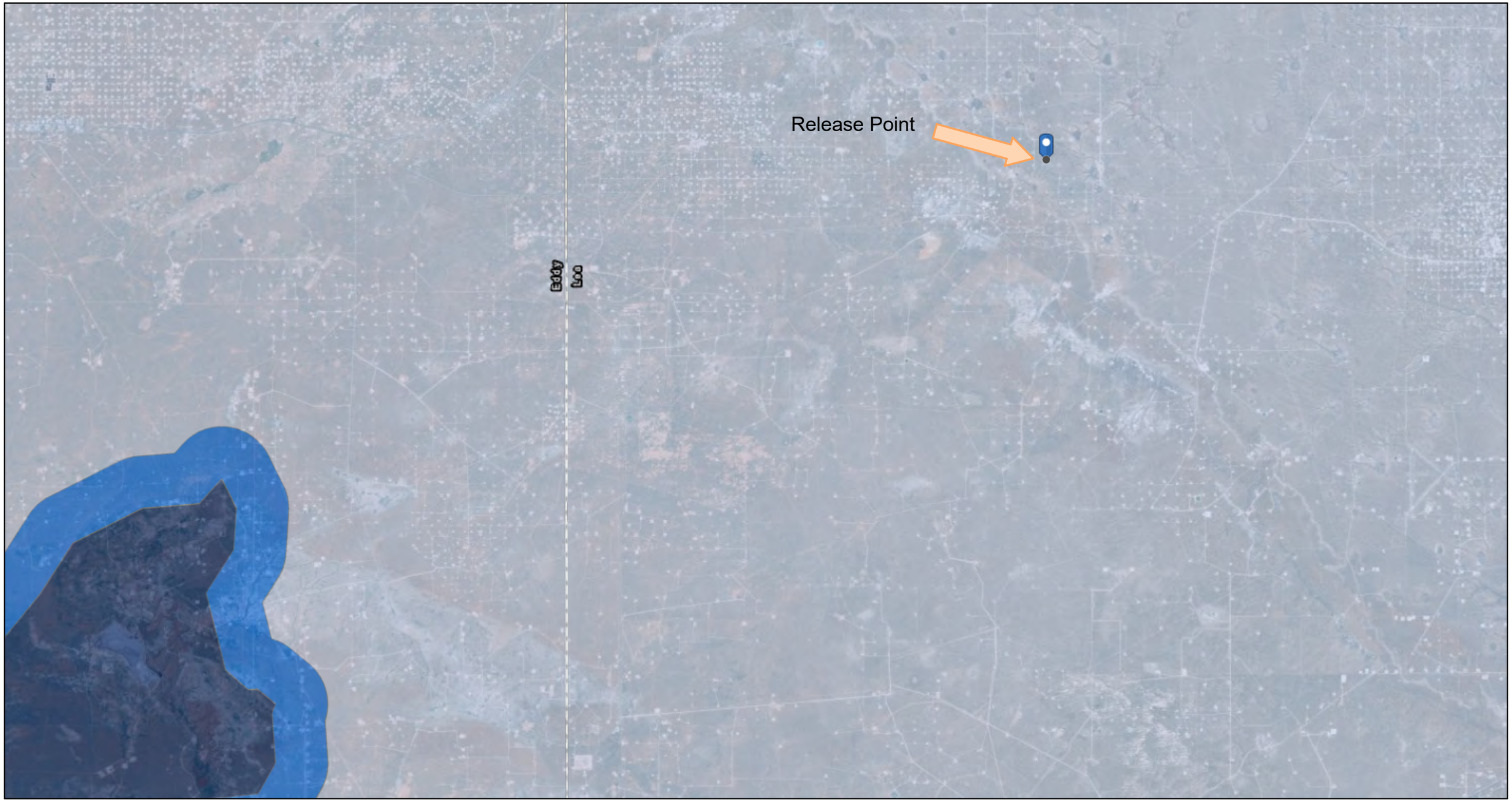
0 0.13 0.25 0.5 km

BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE, Garmin, iPC, Maxar, BLM

New Mexico Oil Conservation Division

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

Philmex 15 Flowline Release Karst Potential Map



2/16/2024, 2:51:01 PM

Override 1

Karst Occurrence Potential

High

Medium

Low

1:136,919

0 1.5 3 6 mi

0 2.25 4.5 9 km

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics

New Mexico Oil Conservation Division

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

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 03713	L	LE	3	4	1	28	17S	33E	624391	3630617*	1349	210		
L 03133	L	LE	3	1	3	23	17S	33E	627188	3631868*	1766	230		
L 14159 POD1	L	LE	3	1	3	28	17S	33E	624030	3630169	1833	298	165	133
L 13049 POD1	L	LE	2	2	2	29	17S	33E	623782	3631207*	1952	244	204	40
L 09891	L	LE		4	4	16	17S	33E	625264	3633144*	2287	190		

Average Depth to Water: **184 feet**

Minimum Depth: **165 feet**

Maximum Depth: **204 feet**

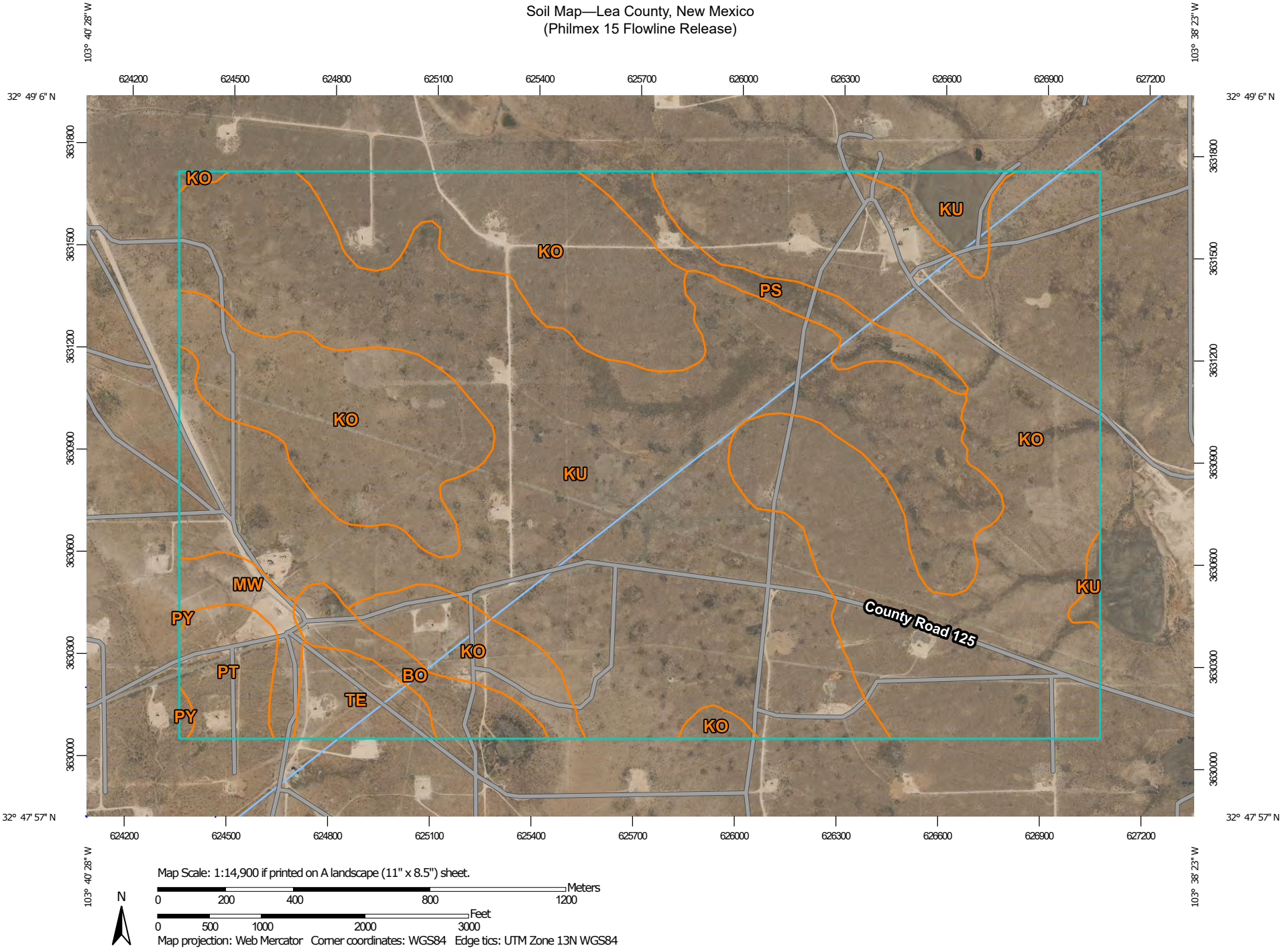
Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 625710.396 **Northing (Y):** 3630900.659 **Radius:** 2400

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

Soil Map—Lea County, New Mexico
(Philmex 15 Flowline Release)



Soil Map—Lea County, New Mexico
(Philmex 15 Flowline Release)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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
BO	Jalmar-Elida complex, 0 to 3 percent slopes	23.4	2.1%
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	516.6	46.0%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	490.7	43.7%
MW	Mobeetie-Potter association, 1 to 15 percent slopes	17.9	1.6%
PS	Portales-Stegall loams	27.4	2.4%
PT	Pyote loamy fine sand	24.5	2.2%
PY	Pyote soils and Dune land	1.4	0.1%
TE	Tonuco fine sand, hummocky	21.2	1.9%
Totals for Area of Interest		**1,123.2**	**100.0%**

ATTACHMENT 2 – BASIN ENVIRONMENTAL CORRECTIVE ACTION PLAN

APPROVED

ConocoPhillips

CONOCOPHILLIPS

P.O. Box 2197
Houston, TX 77252-2197
Phone 281.293.1000

PHILMEX #15

Corrective Action Plan

1RP-3999

API 30-025-27402

Release Date: November 11, 2015

Unit Letter A, Section 28, Township 17S, Range 33E

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

August 3rd, 2016

Jamie Keyes
Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

RE: **Corrective Action Plan**
ConocoPhillips – Philmex 15 (1RP-3999)
UL/A sec. 28 T17S R33E
API No. 30-025-27402

Ms. Jones:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 0.5 miles northeast of the intersection of Mescalero Road and Hummingbird Road in Lea County, New Mexico at Unit Letter F of Section 28, in Township 20 South of Range 37 East. The Global Positioning System (GPS) coordinates are: Latitude – 32.8033257, Longitude - -103.7240601. Utilizing the New Mexico Water and Infrastructure Data System (NM WAIDS), existing well records indicate that groundwater will likely be encountered at a depth of approximately one-hundred eighty (180) +/- feet.

On November 24th, 2015, CoP discovered a release from a flow-line. A total of seven and one-half (7.5) barrels (bbls) of crude oil and produced water were released over approximately two-thousand nine-hundred twenty-eight (2,928) square feet (ft^2) of pasture land. Approximately five (5) bbls total of fluid were recovered. The New Mexico Oil Conservation Division (NMOCD) was notified of the release on November 25th, 2015, and an initial C-141 was submitted the same day. NMOCD approved the initial C-141 on November 25th, 2015 (Appendix A).

Basin personnel were on site to assess the release December 4th, 2015. The release was mapped and photographed (Figure 1). On December 9th and 10th, 2015, samples were taken with depth and submitted to a NMOCD approved commercial laboratory for analysis (Appendix B). Laboratory analysis of the soil sample (Point 1) retrieved at two (2) feet below ground surface (bgs) showed an elevated chloride concentration of 6,560 mg/kg, gasoline range organics (GRO) concentration of 15.3 mg/kg, and diesel range organics (DRO) concentration of 101 mg/kg. Benzene concentration was below the applicable method detection limit. Toluene concentration was 0.361 mg/kg. Ethylbenzene concentration was 0.878 mg/kg. Xylenes concentration was 1.43

mg/kg. The total BTEX concentration was 2.67 mg/kg. The soil sample (Point 1) retrieved at three (3) feet bgs had a chloride concentration at 112 mg/kg. GRO and DRO concentrations were below the applicable detection limit.

The soil sample (Point 2) retrieved at one (1) feet (bgs) showed an elevated chloride concentration of 3,120 mg/kg, GRO concentration of 447 mg/kg, and DRO concentration of 4030 mg/kg. Benzene concentration was 0.268 mg/kg. Toluene concentration was 6.63 mg/kg. Ethylbenzene concentration was 14 mg/kg. Xylenes concentration was 24.3 mg/kg. The total BTEX concentration was 45.2 mg/kg. The soil sample (Point 2) retrieved at three and one-half (3.5) feet bgs had a chloride concentration less than the appropriate method detection limit. GRO and DRO concentrations were below the applicable detection limit.

The soil sample (Point 3) retrieved at one (1) feet (bgs) showed an elevated chloride concentration of 11,500 mg/kg, GRO concentration of 409 mg/kg, and DRO concentration of 3350 mg/kg. Benzene concentration was 0.639 mg/kg. Toluene concentration was 11.9 mg/kg. Ethylbenzene concentration was 19.2 mg/kg. Xylenes concentration was 28 mg/kg. The total BTEX concentration was 59.7 mg/kg. The soil sample (Point 3) retrieved at two and one-half (2.5) feet bgs had a chloride concentration of 48 mg/kg with GRO and DRO concentrations below the applicable detection limit.

Photo Documentation of the of these activities may be found in Appendix C.

Corrective Action Plan

Based on the assessment and sampling data, the release will be excavated down at various depths. The area around Point 1 as depicted in Figure 1, will be excavated to a depth of three (3) feet bgs. The area around Point 2 will be excavated to a depth of three and one-half (3.5) feet bgs. The area around Point 3 will be excavated to a depth of two and one-half (2.5) feet bgs. Once the entire excavation is completed, discreet wall samples from the excavation will be collected and field tested for chlorides and organic vapors. If the field data indicates that the wall samples will not achieve chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings below regulatory standards, the walls of the excavation will be extended until field testing indicates that all constituents from the wall samples will return values below regulatory standards. The samples will then be taken to a commercial laboratory to confirm that all constituents return readings are below regulatory standards.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride concentration is below the recommended regulatory standards. The excavated area will be backfilled with clean, imported topsoil and contoured to the surrounding location.

Revegetation of the site will be performed as follows:

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful. The seed will be spread using a hand-held broadcaster and the area raked or dragged

to cover the seed. Because the seed will be broadcast, the pounds per acre will be doubled. BLM #2 seed mix will be used.

The seed mixture will be planted in the amounts specified in pounds of pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered. The area will be seeded following backfilling of the excavated area.

The site will be visited on a quarterly basis to assess the establishment of vegetative growth. Staff personnel performing the site visit will also look for the presence of noxious weeds at the site. If a noxious weed is observed at the site, CoP will determine the most effective manner to eradicate it.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

Kyle Norman
Project Lead
Basin Environmental Service Technologies
(575) 942-8542

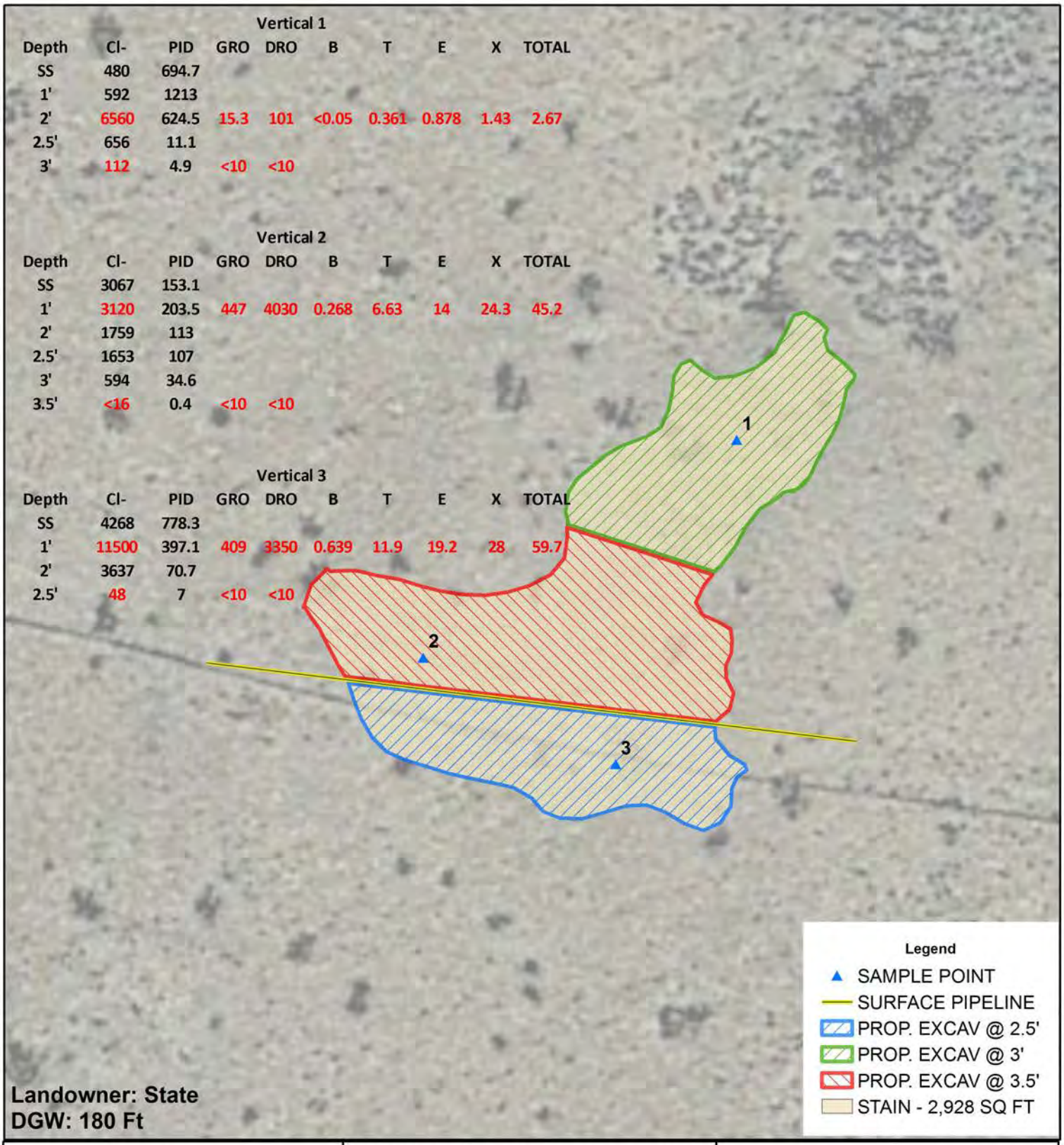
Attachments:

Figure 1 – Proposed Excavation
Appendix A – Initial C-141
Appendix B – Laboratory Analysis
Appendix C – Photo Documentation

Figures

Basin Environmental Service Technologies, LLC
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Proposed Excavation



Basin Environmental Service Technologies
Effective Solutions

CONOCOPHILLIPS PHILMEX #15

1RP-3999

UL A SECTION 28
T-17-S R-33-E
LEA COUNTY, NM

Figure 1

GPS: 32.811329 -103.661798

0 10 20 Feet

GPS date: 11/4/15 JK
Drawing date: 3/16/16
Drafted by: T. Grieco

N W E S

Appendix A

Intial C-141

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

RECEIVED
By JKeyes at 12:18 pm, Nov 25, 2015

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **ConocoPhillips**	Contact: **Spencer Cluff**
Address: **29 Vacuum Complex Lane**	Telephone No. **575-746-7248**
Facility Name: **Philmex 15**	Facility Type: **Well**

Surface Owner: NMOCD	Mineral Owner: NMOCD	API No. 30-025-27402

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	28	17S	33E	660	North	660	East	**LEA**

Latitude 32.8033257 **Longitude** 103.7240601 NAD83

NATURE OF RELEASE

Type of Release: **Spill**	Volume of Release: 7.50 BBLS	Volume Recovered: 5 BBLS
Source of Release: Fiber Spar Line	Date and Hour of Occurrence 11/23/2015 2:00 pm	Date and Hour of Discovery 11/24/2015 2:00 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Jamie Keyes**	
By Whom? **Spencer Cluff**	Date and Hour: 11/**25/2015 11:05 am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On November 24th, 2015 at 1400 hrs. MDT a flow line leak occurred at the Philmex 15. The immediate action by the MSO was to shut down the well, isolate the line, and repair the line. The spill released 5 bbls of oil and 2.5 bbls of produced water for a total of 7.5 bbls, with 5 bbls of fluid recovered. The spill will be remediated according to NMOCD and COPC guidelines.

Describe Area Affected and Cleanup Action Taken.*

The area was in the pasture and will be remediated according to NMOCD guidelines

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

Signature: *Spencer A. Cluff*

Printed Name: Spencer A. Cluff

Title: HSE Specialist

E-mail Address: ***spencer.a.cluff@conocophillips.com***

Date: 11/25/2015 Phone:575-746-7248

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 11/25/2015 Expiration Date: 01/25/2016

Conditions of Approval:
Discrete site samples required. Delineate and remediate per NMOCD guidelines.
Geotagged photos recommended.

Attached ☐

1RP 3999

* Attach Additional Sheets If Necessary

Appendix B

Laboratory Analysis

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

CARDINAL Laboratories

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

December 17, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: PHILMEX #15

Enclosed are the results of analyses for samples received by the laboratory on 12/15/15 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/09/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 2' (H503248-01)

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	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	**0.361**	0.050	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	**0.878**	0.050	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	**1.43**	0.150	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	**2.67**	0.300	12/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6560**	16.0	12/15/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**15.3**	10.0	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	**101**	10.0	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane *107 %* *35-147*

Surrogate: 1-Chlorooctadecane *94.5 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/09/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 3' (H503248-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	12/15/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	<10.0	10.0	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane	*108 %*	*35-147*
Surrogate: 1-Chlorooctadecane	*95.1 %*	*28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/09/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 2 @ 1' (H503248-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.268**	0.200	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	**6.63**	0.200	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	**14.0**	0.200	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	**24.3**	0.600	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	**45.2**	1.20	12/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3120**	16.0	12/15/2015	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**447**	100	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	**4030**	100	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane *169 %* *35-147*

Surrogate: 1-Chlorooctadecane *166 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 2 @ 3.5' (H503248-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/15/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/15/2015	ND	206	103	200	3.57	
DRO >C10-C28	<10.0	10.0	12/15/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane	*107 %*	*35-147*
Surrogate: 1-Chlorooctadecane	*102 %*	*28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 3 @ 1' (H503248-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.639**	0.200	12/16/2015	ND	1.95	97.5	2.00	0.179	
Toluene*	**11.9**	0.200	12/16/2015	ND	1.97	98.6	2.00	0.739	
Ethylbenzene*	**19.2**	0.200	12/16/2015	ND	2.00	100	2.00	0.0556	
Total Xylenes*	**28.0**	0.600	12/16/2015	ND	5.99	99.9	6.00	0.291	
Total BTEX	**59.7**	1.20	12/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11500**	16.0	12/15/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**409**	50.0	12/16/2015	ND	206	103	200	3.57	
DRO >C10-C28	**3350**	50.0	12/16/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane *104 %* *35-147*

Surrogate: 1-Chlorooctadecane *93.1 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received:	12/15/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	PHILMEX #15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 3 @ 2.5' (H503248-06)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/15/2015	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2015	ND	206	103	200	3.57	
DRO >C10-C28	<10.0	10.0	12/16/2015	ND	190	95.1	200	4.23	

Surrogate: 1-Chlorooctane	*107 %*	*35-147*
Surrogate: 1-Chlorooctadecane	*96.1 %*	*28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: ConocoPhillips	**BILL TO**
Project Manager: Kyle Norman	P.O. #:
Address: 419 W Cain	Company: Basin
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-393-2967 Fax #: 575-393-0293	Address: 419 W Cain
Project #: Project Owner:	City: Hobbs
Project Name:	State: NM Zip: 88240
Project Location: Phillmex #15	Phone #: 575-393-2967
Sampler Name: J Kamplain	Fax #: 575-393-0293

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS						
H5003248																										
1	Vert 1 @ 2'	G	1			✓					✓		12-9-15	3:30	✓	✓	✓									
2	Vert 1 @ 3'	G	1			✓					✓			3:45	✓	✓										
3	Vert 2 @ 1'	G	1			✓					✓			4:00	✓	✓	✓									
4	Vert 2 @ 3.5'	G	1			✓					✓		12-10-15	3:30	✓	✓										
5	Vert 3 @ 1'	G	1			✓					✓			3:45	✓	✓	✓									
6	Vert 3 @ 2.5'	G	1			✓					✓			4:00	✓	✓										

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

Relinquished By:	Date: 12-11-15	Received By:	
	Time: 3:00		
Relinquished By:	Date: 12-15-15	Received By:	Jodi Henson
	Time: 8:15		
Delivered By: (Circle One)	Sample Condition: Cool ☑ Yes ☐ No / Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: ~14.6° C			

Phone Result: ☐ Yes ☑ No Add'l Phone #:
Fax Result: ☐ Yes ☑ No Add'l Fax #:
REMARKS:
email results:
hconder@basinenv.com; knorman@basinenv.com;
jkamplain@basinenv; lflores@basinenv; lweinheimer@basinenv;
cursanic@basinenv; sedwards@basinenv
environmental tech: @basinenv

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Appendix C
Photo Documentation

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Conoco Phillips - Philmex #015

Unit Letter A, Section 28, T17S, R33E

Initial release, facing northeast 12/4/15

Initial release, facing southwest 12/4/15

Top 1' removed, facing northeast 12/16/15

Top 1' removed, facing northwest 3/22/12

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing northeast of flowline release. (Basin, 2015)	1
	SITE NAME	Philmex #15 Flowline Release	12/4/2015

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing north of flowline release. (Initial Site Visit)	2
	SITE NAME	Philmex #15 Flowline Release	12/4/2015

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing west of flowline release. (Initial Site Visit)	3
	SITE NAME	Philmex #15 Flowline Release	12/4/2015

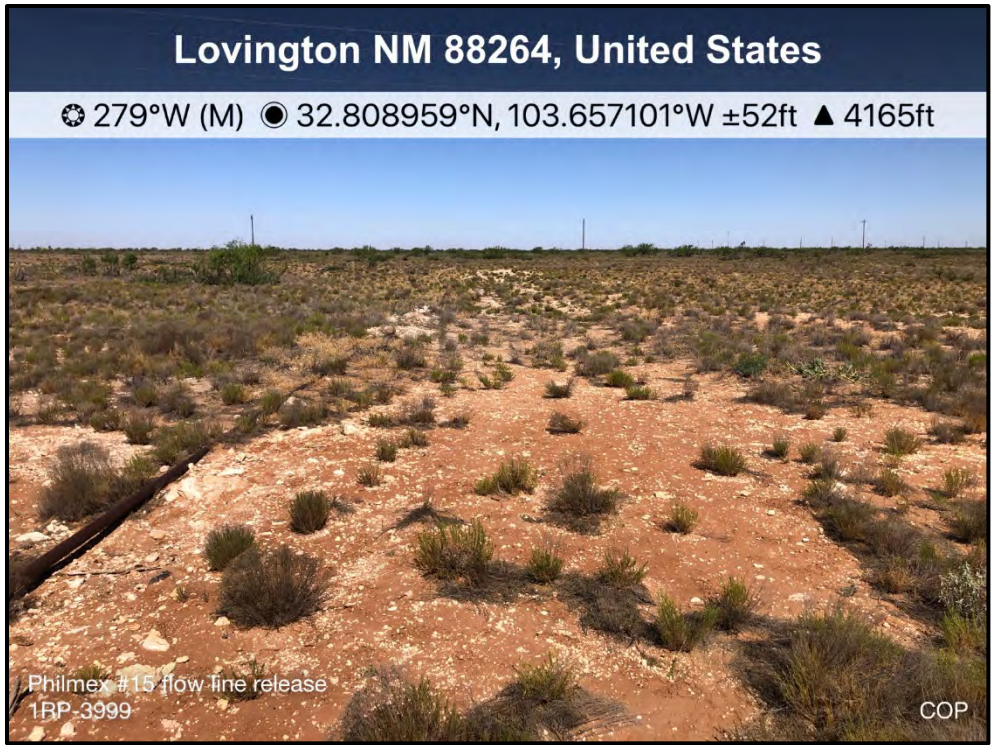
TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	Overview of flowline release excavation activities.	4
	SITE NAME	Philmex #15 Flowline Release	12/9/2015

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	Overview of excavation activities.	5
	SITE NAME	Philmex #15 Flowline Release	12/9/2015

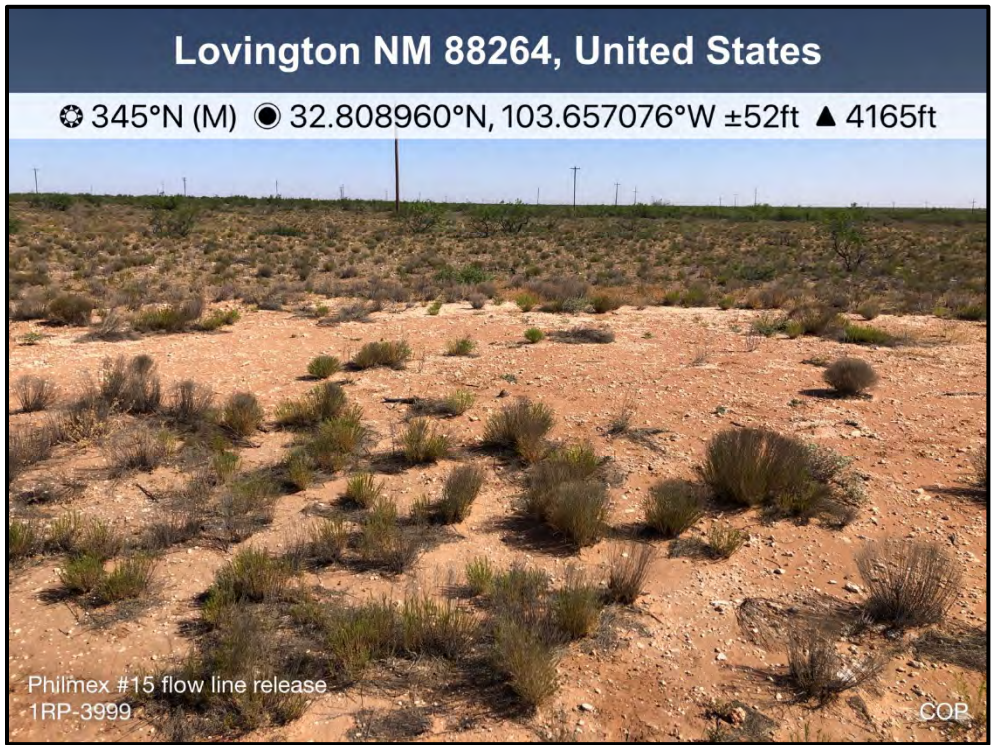
TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing northwest of excavation activities in the flowline release area.	6
	SITE NAME	Philmex #15 Flowline Release	12/9/2015

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	Overview of flowline release excavation area.	7
	SITE NAME	Philmex #15 Flowline Release	12/16/2015

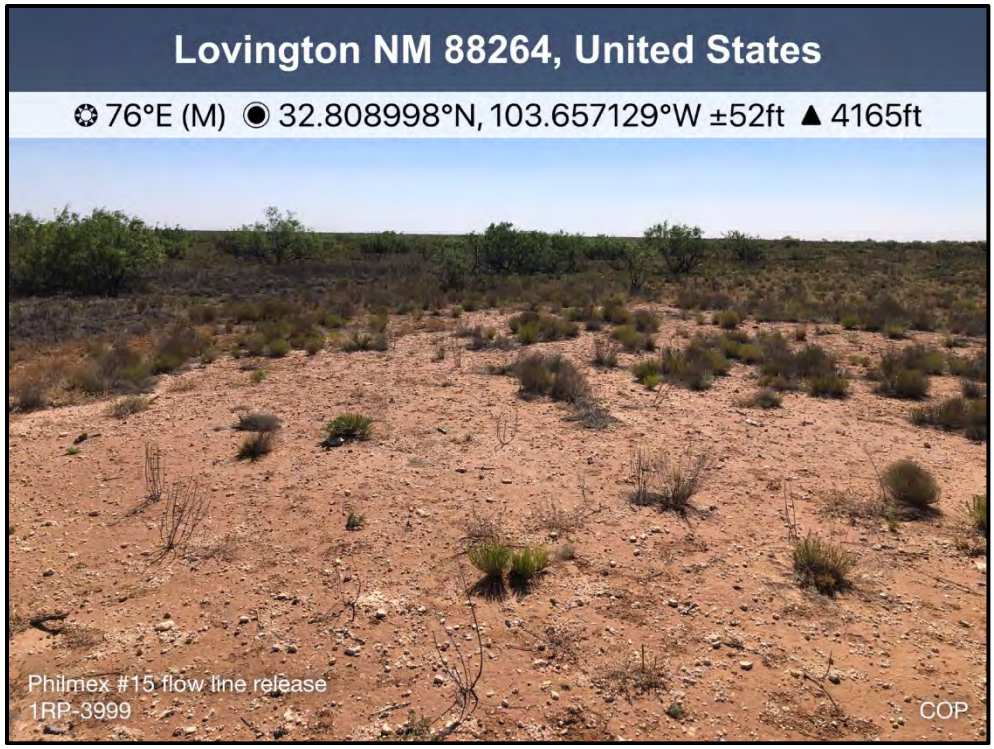
TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	Overview of flowline release excavation area (note flowline in place).	8
	SITE NAME	Philmex #15 Flowline Release	12/16/2015



TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing west of the former flowline release area.	9
	SITE NAME	Philmex #15 Flowline Release	6/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing northwest of the former flowline release area.	10
	SITE NAME	Philmex #15 Flowline Release	6/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing northeast of sparse vegetation in the former flowline release area.	11
	SITE NAME	Philmex #15 Flowline Release	6/9/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing northwest of the former flowline release area.	12
	SITE NAME	Philmex #15 Flowline Release	6/9/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing northwest of the former flowline release area.	13
	SITE NAME	Philmex #15 Flowline Release	6/9/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02334	DESCRIPTION	View facing east of the former flowline release area.	14
	SITE NAME	Philmex #15 Flowline Release	6/9/2020

S 180 210 SW 240 W 270 300 NW 330

257°W (T) 32.808842°N, 103.657167°W ±13ft ▲ 4169ft

Remediation
Maverick

Philmex 15
31 Jan 2024, 15:07:33

W 270 NW 300 330 N 0 NE 30 60

346°N (T) 32.808740°N, 103.657267°W ±13ft ▲ 4169ft

Remediation
Maverick

Philmex 15
31 Jan 2024, 15:07:49

ATTACHMENT 4 – ARCHEOLOGICAL SURVEY

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

ATTACHMENT 5 – LABORATORY ANALYTICAL DATA

CARDINAL Laboratories

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

February 02, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PHILMEX 15

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: BH 1 (2') (H240468-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	199	99.4	200	0.763	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	188	94.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: BH 2 (2') (H240468-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	199	99.4	200	0.763	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	188	94.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *125 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: BH 3 (2') (H240468-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	199	99.4	200	0.763	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	188	94.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 1 (H240468-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *78.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.7 %* *49.1-148*

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 2 (H240468-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *77.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.4 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 3 (H240468-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *75.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *70.4 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 4 (H240468-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *88.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.5 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 5 (H240468-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.16	108	2.00	8.20	
Toluene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.22	111	2.00	5.59	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.59	110	6.00	4.71	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.0 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 6 (H240468-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	9.52	
Toluene*	<0.050	0.050	02/01/2024	ND	2.28	114	2.00	10.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.41	120	2.00	9.83	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.22	120	6.00	10.1	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *98.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.2 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	02/01/2024	Sampling Date:	01/31/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	PHILMEX 15	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK		

Sample ID: SW 7 (H240468-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	9.52	
Toluene*	<0.050	0.050	02/01/2024	ND	2.28	114	2.00	10.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.41	120	2.00	9.83	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.22	120	6.00	10.1	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	02/01/2024	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	201	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	204	102	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane *82.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.0 %* *49.1-148*

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CARDINAL Laboratories

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Notes and Definitions

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

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Mike Snyder For 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

Company Name:	Tetra Tech	**BILL TO**	
Project Manager:	Chuck Terhune	P.O. #:	
Address:		Company:	Maverick
City:	Houston	Attn:	Bryce Wagonner
State:		Address:	
Zip:		City:	Hobbs
Phone #:		State:	
Fax #:		Zip:	
Project #:		Phone #:	
Project Owner:		Fax #:	
Project Name:	Philmex 15		
Project Location:			
Sampler Name:	AG		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH	BTEX	Chloride
H240468																	
1	BH 1 (2')		1			X					X		2/1/24		X	X	X
2	BH 2 (2')		1			X					X		2/1/24				
3	BH 3 (2')		1			X					X		2/1/24				
4	SW 1		1			X					X		2/1/24				
5	SW 2		1			X					X		2/1/24				
6	SW 3		1			X					X		2/1/24				
7	SW 4		1			X					X		2/1/24				
8	SW 5		1			X					X		2/1/24				
9	SW 6		1			X					X		2/1/24				
10	SW 7		1			X					X		2/1/24				

Relinquished By:	Date: 2/1/24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Adrian Baeza	Time: 1000	S Rodriguez	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 2.9	Sample Condition: Cool ☐ Yes ☐ No / Intact ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☒ 24 hrs
Sampler - UPS - Bus - Other:	Corrected Temp. °C			Thermometer ID #140 Correction Factor 0°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No / Intact ☐ Yes ☐ No — Observed Temp. °C — Corrected Temp. °C

FORM-006 R 3.4 07/11/23

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

ATTACHMENT 6 – NMSLO SEED MIXTURE

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**
Forbs:			
Firewheel (*Gaillardia*)	**VNS, Southern**	**1.0**	**D**
Shrubs:			
Fourwing saltbush	**Marana, Santa Rita**	**1.0**	**D**
Common winterfat	**VNS, Southern**	**0.5**	**F**
	Total PLS/acre	**18.0**	

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.

3 REVEGETATION PLANS & SEEDING

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Gypsum	LG	
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam

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

QUESTIONS

Action 342702

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nJXK1532944122**
Incident Name	**NJXK1532944122 PHILMEX #015 @ 30-025-27402**
Incident Type	**Oil Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-025-27402] PHILMEX #015**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PHILMEX #015
Date Release Discovered	11/23/2015
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Crude Oil | Released: 5 BBL | Recovered: 4 BBL | Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 2 BBL | Recovered: 1 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetratech.com Date: 05/09/2024

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	185
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	142.4
GRO+DRO (EPA SW-846 Method 8015M)	49.7
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/29/2024
On what date will (or did) the final sampling or liner inspection occur	01/31/2024
On what date will (or was) the remediation complete(d)	02/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	1200
What is the estimated volume (in cubic yards) that will be reclaimed	90
What is the estimated surface area (in square feet) that will be remediated	1200
What is the estimated volume (in cubic yards) that will be remediated	90
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetratech.com Date: 05/09/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

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	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**342520**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/31/2024**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**1200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1200
What was the total volume (cubic yards) remediated	90
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1200
What was the total volume (in cubic yards) reclaimed	90
Summarize any additional remediation activities not included by answers (above)	None additional

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetratech.com Date: 05/09/2024

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1200
What was the total volume of replacement material (in cubic yards) for this site	90
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	02/07/2024
Summarize any additional reclamation activities not included by answers (above)	Replaced excavated soil with clean soil comparable to the surrounding area from nearby Seth Boyde Pit. NMSLO seed mix was broadcast at double the drill rate and raked/harrowed in
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetratech.com Date: 05/09/2024

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QUESTIONS (continued)

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	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 342702
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Reclamation report approved.	5/29/2024
amaxwell	• All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	5/29/2024
amaxwell	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	5/29/2024