



December 8, 2023

Brittany Hall
Projects Environmental Specialist
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

**Re: Remediation Work Plan
ConocoPhillips Company (Heritage COG Operating, LLC)
King Tut Federal #001H Flowline Release
Unit Letter D, Section 30, Township 24 South, Range 32 East
Lea County, New Mexico
Incident ID# nAB1905046526**

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a Heritage COG Operating, LLC (Concho) release that occurred at a flowline associated with the King Tut Federal #001H well (API No. 30-025-41542). The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.19467°, -103.71971°, as shown on Figures 1 and 2.

BACKGROUND

According to the New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was caused by a ruptured flowline in the pipeline rights-of-way along the lease road adjacent to the King Tut #001H well pad on February 8, 2019. The release consisted of 10 barrels (bbls) of produced water, of which 5 bbls were reported recovered. The NMOCD received the initial C-141 on February 11, 2019 and subsequently assigned the release the Incident ID nAB1905046526. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one (1) water well located within ½ mile (800 meters) of the Site at a depth of 120 feet bgs with no groundwater elevation reported. This dry water well provides a reasonable determination to establish groundwater as greater than 100 bgs in the ½ mile radius. The minimum depth to groundwater based on data from one (1) well located approximately 1.26 miles (2,028 meters) away from the Site is 135 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

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REGULATORY FRAMEWORK

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

Based on the site characterization, depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the recommended remedial action levels (RRALs) for the Site are as follows:

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

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg

INITIAL SITE ASSESSMENT AND 2019 DEFERRAL REQUEST

On February 20, 2019, Tetra Tech conducted assessment soil sampling at the Site on behalf of Concho. Four (4) auger holes (AH-1 through AH-4) were installed within the release extent to depths ranging from 7-10 feet bgs. Additionally, five (5) horizontal delineation samples (Horizontal North-1, Horizontal West-1, Horizontal South-1, Horizontal South-2, and Horizontal East-1) were collected along the perimeter of the release footprint. The release extent and sampling locations are presented in Figure 3.

The analytical results from the February 2019 soil sampling activities are summarized in Table 1. Chloride concentrations exceeded the reclamation limit of 600 mg/kg to a depth of 4 feet bgs at locations AH-1 and AH-2 and to a depth of 2 feet bgs at locations AH-3 and AH-4. There were analytical results from subsurface soil intervals (greater than 4 feet bgs) which exceeded the chloride RRAL of 20,000 mg/kg. There were no analytical results which exceeded the Site RRALs or reclamation limits for TPH, BTEX, or benzene. The analytical results associated with the horizontal delineation samples were below the Site RRALs and reclamation limits for all constituents.

Based on the analytical results of the February 2019 assessment sampling, a Closure Report / Deferral Request dated March 27, 2018 was submitted to the Bureau of Land Management (BLM) and to the NMOCD. In this report, Concho requested closure of the release and deferral of restoration and reclamation activities at the Site due to safety issues posed by numerous surface lines, buried lines, and electric lines in the release area.

The BLM and NMOCD rejected the closure request and deferral request for reclamation activities via email on August 15, 2019. A copy of regulatory correspondence is included as Appendix C.

2023 ADDITIONAL ASSESSMENT ACTIVITIES

The King Tut Federal #001H release (nAB1905046526) footprint coincides with three additional flowline release incidents associated with the King Tut Federal #001H well (nKL1630650239), the King Tut Federal #003H well (nOY1713048453) and the Windward Federal #001H well (nOY1721336457), respectively. Separate Remediation Work Plan reports have been submitted for the other three incidents.

Tetra Tech prepared deferral requests for the other three incidents in May 2023 on behalf of ConocoPhillips. The NMOCD rejected the deferral requests with the following comment:

- *“Deferral denied. There is another open incident for a release that occurred in the same area under incident #NAB1905046526. The release occurred on 2/8/2019. A closure request was submitted 7/22/2019 and subsequently denied by both the BLM and OCD on 8/15/2019. Per 19.15.29.12 C. (3) “The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.” Remediation can take place by using hand hovels, hydrovac, etc. to safely remove contaminated soil around the pipelines. In-situ remediation can also be utilized as long as the remediation plan is approved by the OCD prior to implementation.”*

Tetra Tech conducted additional assessment sampling on behalf of ConocoPhillips within the combined release extents to evaluate current soil concentration levels and guide the proposed remediation. On September 7, 2023, Tetra Tech personnel installed nine (9) hand auger borings (AH-23-12 through AH-23-20) within the combined release extent at the locations that had elevated soil chloride concentrations in the August 2017 sampling event. The 2023 sampling locations are presented in Figure 4.

A total of forty-five (45) soil samples were collected and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Analytical results from the 2023 vertical delineation soil assessment are summarized in Table 3. Chloride concentrations were detected in surface soils (0-4 feet bgs) at all nine boring locations at levels above the reclamation limit of 600 mg/kg. There were no analytical results exceeding the chloride RRAL of 20,000 mg/kg. All analytical results were below the reclamation limits and Site RRALs for all other constituents.

REMEDIATION WORK PLAN

Based on the site characterization, the collected analytical results, and the NMOCD rejection of the 2023 deferral request, ConocoPhillips proposes to remove the impacted material as indicated in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below surface grade or until a representative sample from the excavation floor is below the applicable reclamation limit or RRAL for chloride. Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be removed to the maximum extent practicable using non-aggressive excavation methods.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. In accordance with subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. Confirmation bottom and sidewall samples representative of no more than 200 square feet will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 560 cubic yards.

VARIANCE REQUEST

ConocoPhillips proposes to leave impacted surface (upper four feet) soils (with concentrations greater than the reclamation limit of 600 mg/kg) in place at three (3) of the 2023 additional vertical delineation sampling locations. The areas of boring locations AH-23-12, AH-23-13, and AH-23-20 are overlain with 2 to 3 feet of clean soils, as summarized in Table 3. Only select soil intervals in the upper four feet are impacted with chlorides above the reclamation limit, and the impacted soils are situated stratigraphically below the clean soils.

Remediation Work Plan
December 8, 2023

ConocoPhillips

The root zone for most native plants is in the uppermost four feet, however, most roots are in the top 6 to 24 inches of the soil. Furthermore, the water-absorbing feeder roots are mostly within the upper four inches. There is existing vegetative cover in many portions of the site, and the primary purpose of remediation and reclamation is to re-establish vegetative growth. Disturbance and excavation of areas exhibiting recolonization and a self-sustaining plant community are proposed to be left undisturbed.

The release impact is fully delineated and groundwater in this area is more than 100 feet below surface. The established vegetative cover at the Site reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels. As the Site is located on federal land, ConocoPhillips will seek BLM concurrence for this variance request and proposed scope of remediation.

CONCLUSION

All analytical results associated with the horizontal delineation to the north, east, south, and west of the release area were below applicable reclamation requirements for all constituents. Horizontal delineation was achieved, per NMOCD request.

Based on the results of the additional release delineation activities, ConocoPhillips will remediate impacted areas to 4 feet bgs, as indicated in Figure 5. As described in the variance request, the areas which have soil chloride concentrations above the reclamation limit but which are overlain by 2-3 feet of clean soil do not cause an imminent risk to human health, the environment, or groundwater.

The proposed remediation activities will be conducted within 90 days of acceptance of the proposed plan. If you have any questions concerning the additional assessment activities for the Site or the proposed remediation work plan, please call me at (512) 739-7874.

Sincerely,
Tetra Tech, Inc.



Samantha Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Site Assessment (Tetra Tech 2019)
- Figure 4 – Approximate Release Extent and Additional Assessment (Tetra Tech 2023)
- Figure 5 – Proposed Remediation (Tetra Tech 2023)

Tables:

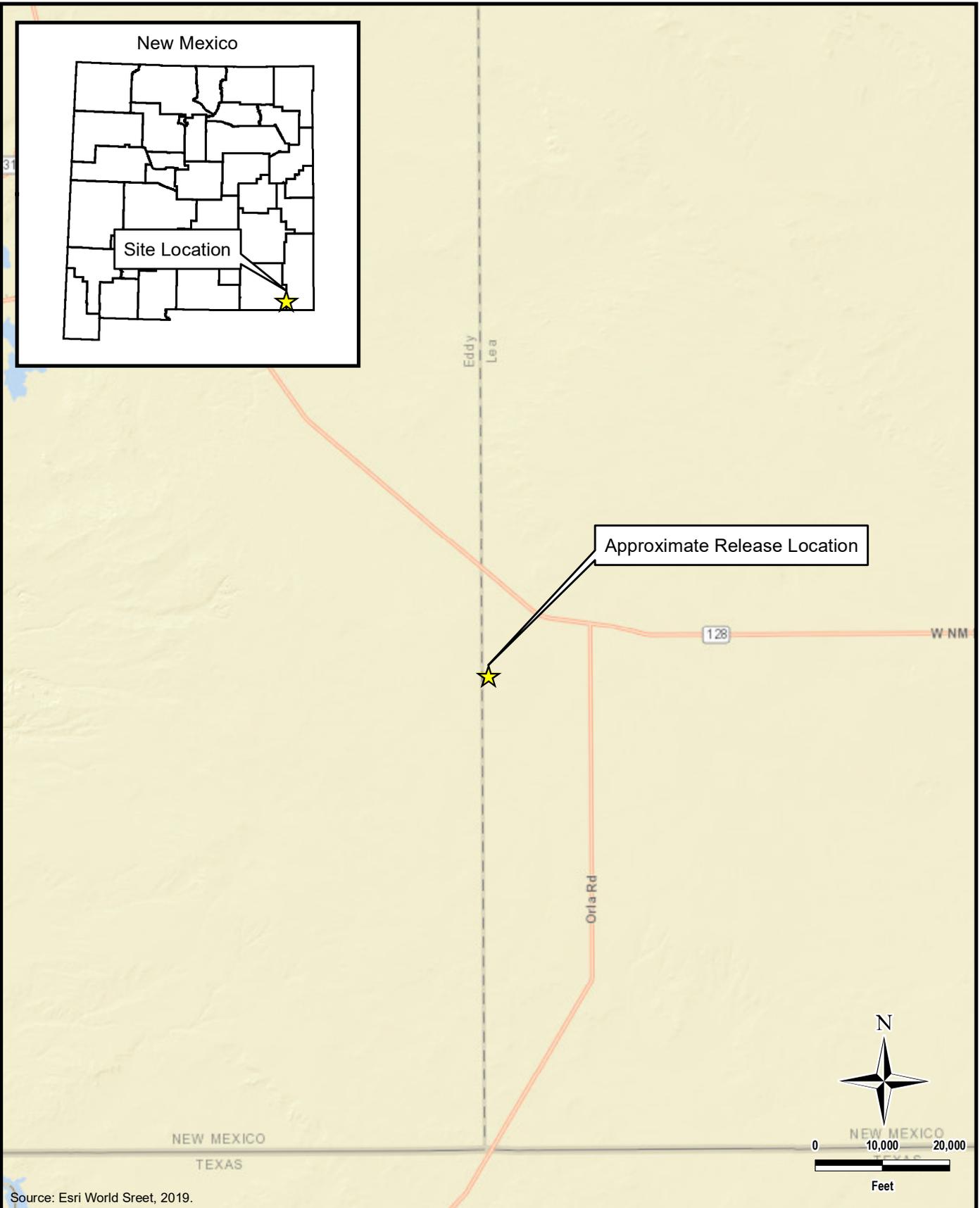
- Table 1 – Summary of Analytical Results – 2019 Initial Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Vertical Delineation Soil Assessment

Appendices:

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

FIGURES

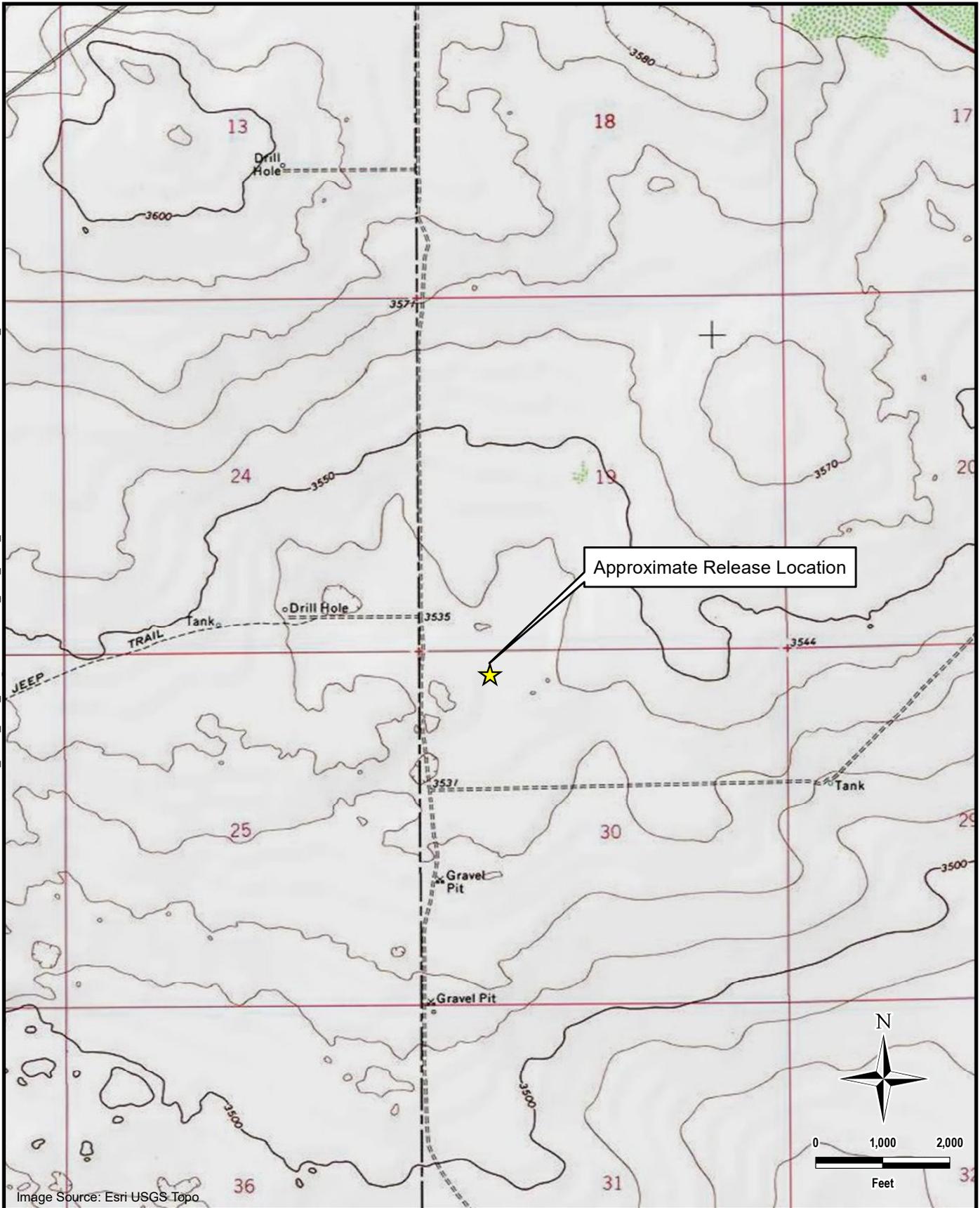
DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH\INCIDENTS\ILLULLI\COPKING - TUTS AND WINDWARDKING - TUT_001H_NAB1905046526\MXD\FIGURE 1 OVERVIEW MAP_KINGTUT_001H_NAB190504...MXD



Source: Esri World Sreet, 2019.

 TETRA TECH www.tetratech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS NAB1905046526 (32.19467°, -103.71971°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-02999A DATE: OCTOBER 06, 2023 DESIGNED BY: LMV
	KING TUT FEDERAL #001H OVERVIEW MAP	Figure No. 1

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CONOCOPHILLIPS

NAB1905046526
(32.19467°, -103.71971°)
LEA COUNTY, NEW MEXICO

**KING TUT FEDERAL #001H
TOPOGRAPHIC MAP**

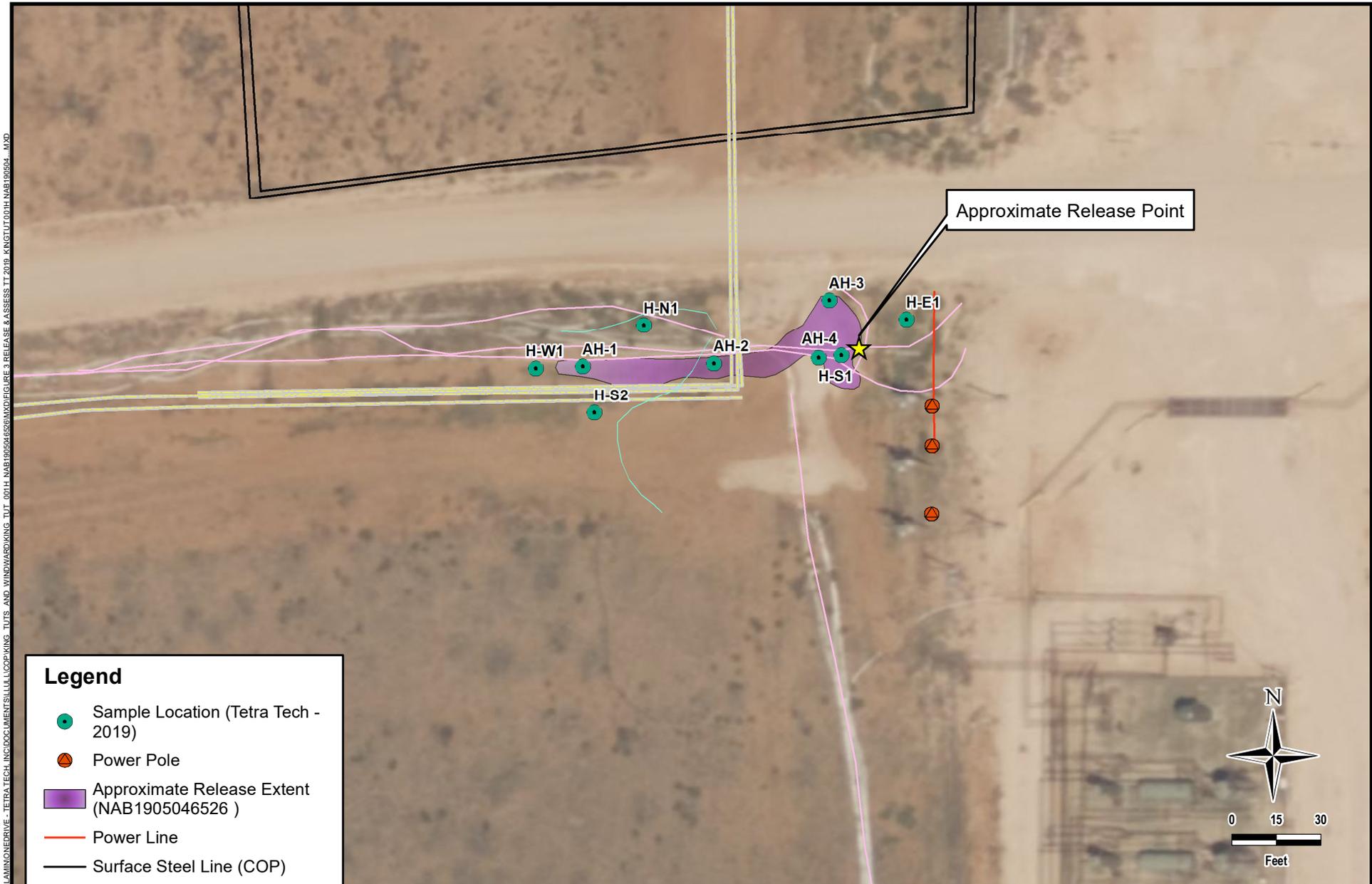
PROJECT NO.: 212C-MD-02999A

DATE: OCTOBER 06, 2023

DESIGNED BY: LMV

Figure No.

2



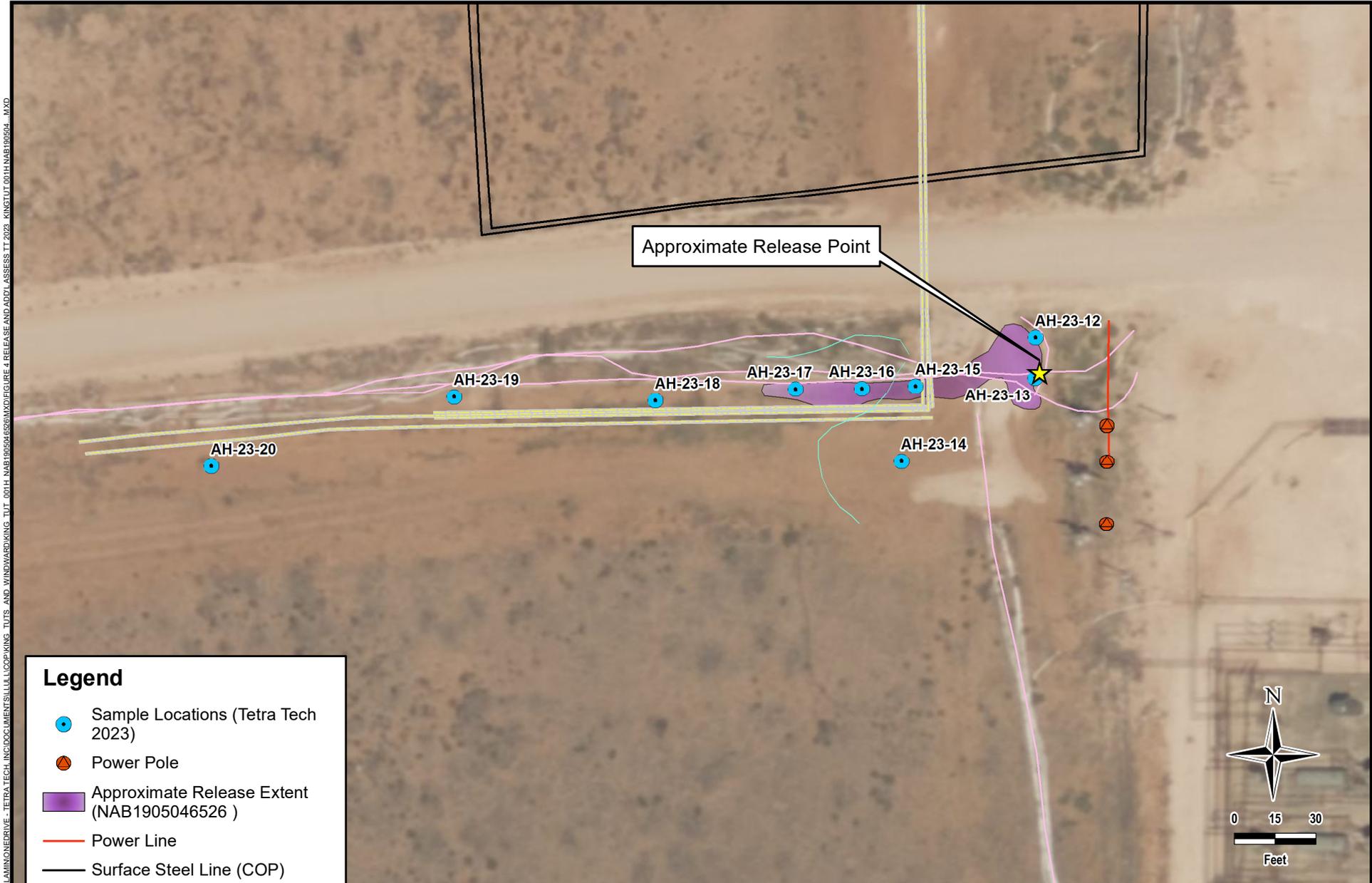
Legend

-  Sample Location (Tetra Tech - 2019)
-  Power Pole
-  Approximate Release Extent (NAB1905046526)
-  Power Line
-  Surface Steel Line (COP)
-  Subsurface Pipeline (Plains)
-  Surface Line
-  Surface Poly Line

Image Source: Bing Maps.



 TETRA TECH www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS NAB1905046526 (32.19467°, -103.71971°) LEA COUNTY, NEW MEXICO KING TUT FEDERAL #001H APPROXIMATE RELEASE EXTENT AND INITIAL SITE ASSESSMENT (TETRA TECH 2019)	PROJECT NO.: 212C-MD-02999A DATE: OCTOBER 06, 2023 DESIGNED BY: LMV
	Figure No. 3	



DOCUMENT PATH: C:\USERS\JESSICA.VILLAMONEDRIVE - TETRA TECH\INC\DOCUMENTS\LULU\COPIES\KING TUTS AND WINDWARD KING TUT 001H NAB1905046526\MXD\FIGURE 4 RELEASE AND ADDL ASSESS TT 2023 KING TUT 001H NAB190504.MXD

Legend

- Sample Locations (Tetra Tech 2023)
- ⬮ Power Pole
- Approximate Release Extent (NAB1905046526)
- Power Line
- Surface Steel Line (COP)
- Subsurface Pipeline (Plains)
- Surface Line
- Surface Poly Line

Image Source: Bing Maps.

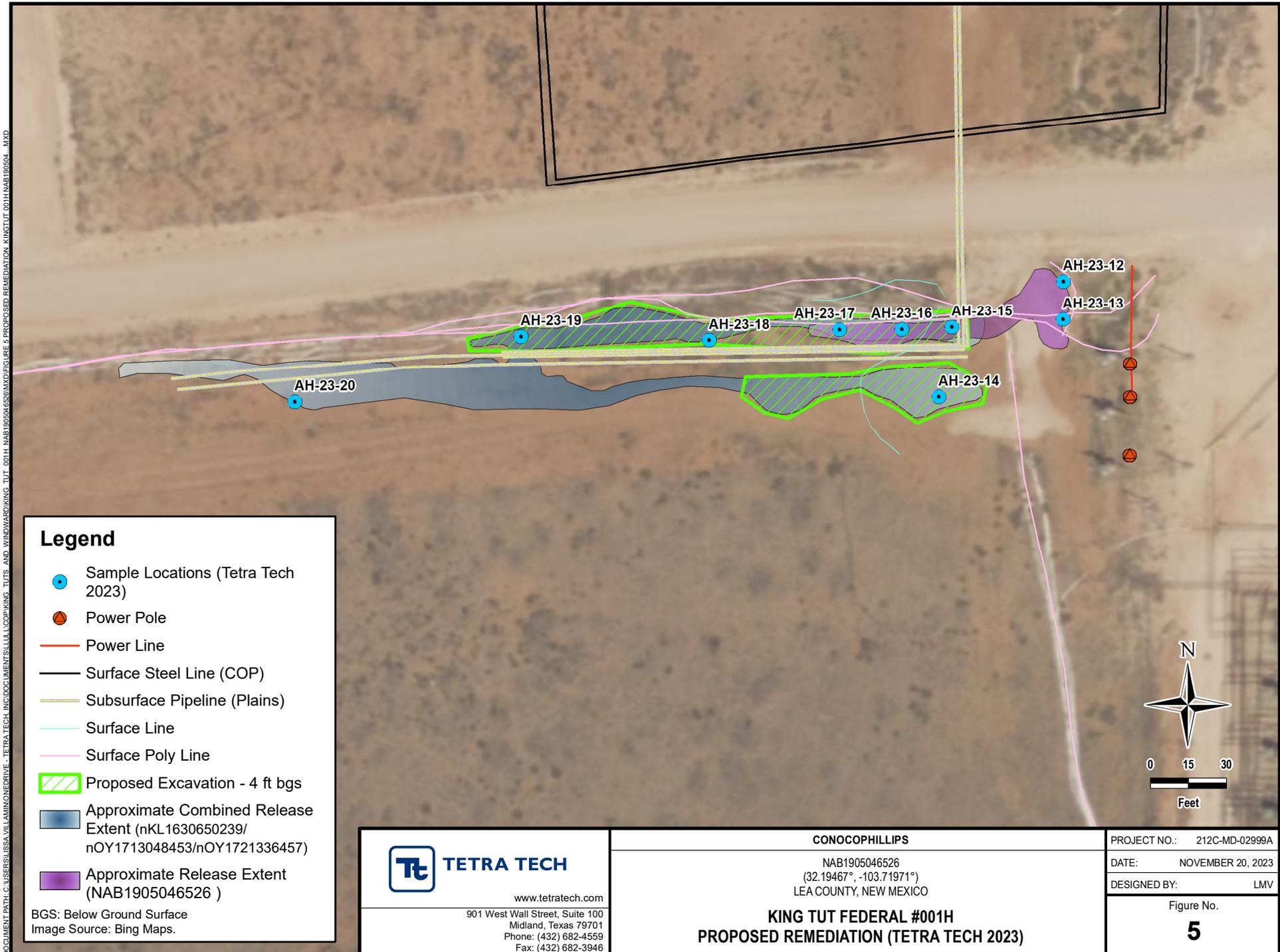
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CONOCOPHILLIPS
 NAB1905046526
 (32.19467°, -103.71971°)
 LEA COUNTY, NEW MEXICO

KING TUT FEDERAL #001H
APPROXIMATE RELEASE EXTENT AND ADDITIONAL SITE ASSESSMENT
(TETRA TECH 2023)

PROJECT NO.:	212C-MD-02999A
DATE:	OCTOBER 06, 2023
DESIGNED BY:	LMV
Figure No.	4



TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 2019 INITIAL SOIL ASSESSMENT - nAB1905046526
 CONOCOPHILLIPS
 KING TUT FEDERAL #001H RELEASE
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³											
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH	
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
AH-1	2/20/2019	0-1	8,060		<0.00200		<0.00200		<0.00200		<0.00400		<0.00200		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0	
		1-1.5	5,990		<0.00201		<0.00201		<0.00201		<0.00401		<0.00201		<0.00201		<0.00201		<15.0		<15.0		<15.0		<15.0	
		2-2.5	5,930		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5	3,140		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5	1,580		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5	1,610		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5	1,740		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5	3,550		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8-8.5	4,160		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-9.5	1,130		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	1,350		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
AH-2	2/20/2019	0-1	2,860		<0.00199		<0.00199		<0.00199		<0.00398		<0.00199		<0.00199		<15.0		<15.0		<15.0		<15.0		<15.0	
		1-1.5	790		<0.00200		<0.00200		<0.00200		<0.00400		<0.00200		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0	
		2-2.5	1,780		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5	2,780		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5	4,170		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5	4,570		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5	1,990		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5	1,690		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8-8.5	1,410		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-9.5	783		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	612		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
AH-3	2/20/2019	0-1	13,500		<0.00200		<0.00200		<0.00200		<0.00401		<0.00200		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0	
		1-1.5	15,100		<0.00202		<0.00202		<0.00202		<0.00403		<0.00202		<0.00202		<0.00202		<14.9		<14.9		<14.9		<14.9	
		2-2.5	2,820		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5	593		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5	588		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5	413		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5	399		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5	3,630		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8-8.5	6,400		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-9.5	8,440		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
10	7,730		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
AH-4	2/20/2019	0-1	8,600		<0.00200		<0.00200		<0.00200		<0.00399		<0.00200		<0.00200		<0.00200		<14.9		<14.9		<14.9		<14.9	
		1-1.5	1,680		<0.00199		<0.00199		<0.00199		<0.00398		<0.00199		<0.00199		<0.00199		<15.0		<15.0		<15.0		<15.0	
		2-2.5	284		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5	52.3		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5	14.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5	22.4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5	99.6		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
7-7.5	206		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Horizontal North 1	2/20/2019	-	22.2		<0.00200		<0.00200		<0.00200		<0.00399		<0.00200		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0	
Horizontal West 1	2/20/2019	-	25.6		<0.00201		<0.00201		<0.00201		<0.00402		<0.00201		<0.00201		<0.00201		<14.9		<14.9		<14.9		<14.9	
Horizontal South 1	2/20/2019	-	8.43		<0.00200		<0.00200		<0.00200		<0.00400		<0.00200		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0	
Horizontal South 2	2/20/2019	-	8.03		<0.00200		0.02060		0.01290		0.0275		0.0154		0.0429		0.0764		<15.0		<15.0		<15.0		<15.0	
Horizontal East 1	2/20/2019	-	254		<0.00200		0.00251		<0.00200		<0.00399		<0.00200		<0.00200		0.00251		<15.0		17.6		<15.0		17.6	

NOTES:
 ft. Feet **Bold and italicized values indicate exceedance of proposed Remediation RRLs and/or Reclamation Requirements.**
 bgs Below ground surface
 mg/kg Milligrams per kilogram
 TPH Total Petroleum Hydrocarbons QUALIFIERS:
 GRO Gasoline range organics
 DRO Diesel range organics
 MRO Motor Oil range organics
 NS Sample not analyzed for parameter
 1 EPA Method 300.0
 2 EPA Method 8021B
 3 Method SW8015 Mod

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 ADDITIONAL SOIL ASSESSMENT- nAB1905046526
CONOCOPHILLIPS
KING TUT #001 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-23-12	9/7/2023	0-1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-13	9/7/2023	0-1	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-14	9/7/2023	0-1	1,550		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	1,390		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-15	9/7/2023	0-1	5,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	3,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-16	9/7/2023	0-1	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	2,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,550		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-17	9/7/2023	0-1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	1,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-18	9/7/2023	0-1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-19	9/7/2023	0-1	1,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	2,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,570		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 2023 ADDITIONAL SOIL ASSESSMENT- nAB1905046526
 CONOCOPHILLIPS
 KING TUT #001 RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-23-20	9/7/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500CI-B
- 2 Method 8021B
- 3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs and/or Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable) <i>AB</i>

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Delann Opreant</u> Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Ana B. Baramente</u> Date: _____

******* LIQUID SPILLS - VOLUME CALCULATIONS *******

Location of spill: COG - King Tut Federal #001H

Date of Spill: 8-Feb-2019

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here:

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations						
Total Surface Area	width	length		wet soil depth	oil (%)		Standing Liquid Area	width	length	liquid depth	oil (%)		
Rectangle Area #1	30 ft	40 ft	X	2.00 in	0%		Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: YES N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

Use the following when the liquid completely fills the pore space of the soil:

- * Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.
- * Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.
- * Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.
- * Clay loam = 0.16 gal. liquid per gal. volume of soil.

- Occurs when the spill soaked soil is contained by barriers, natural (or not).
- * Clay loam = 0.20 gal. liquid per gal. volume of soil.
- * Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.
- * Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: 1,200 sq. ft. 200 cu. ft. cu. ft. Total Free Liquid Volume: sq. ft. cu. ft. cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	<u>5.0</u> BBL	<u>0.0</u> BBL
Free Liquid:	<u>0.0</u> BBL	<u>0.0</u> BBL
Totals:	<u>5.0</u> BBL	<u>0.0</u> BBL

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	<u>0.0</u> BBL	<u>0.0</u> BBL

Estimated Surface Damage

Surface Area: 1,200 sq. ft.
Surface Area: .0275 acre

Recovered Volumes

Estimated oil recovered: BBL check - okay
Estimated water recovered: BBL check - okay

Estimated Weights, and Volumes

Saturated Soil = 22,400 lbs 200 cu. ft. 7 cu. yds.
Total Liquid = 5 BBL 209 gallon 1,743 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
Separator gas calculated: - MCF
Separator gas released: - MCF
Gas released from oil: - lb
H2S released: - lb
Total HC gas released: - lb
Total HC gas released: - MCF

Air Emission of Reporting Requirements:

	<u>New Mexico</u>	<u>Texas</u>
HC gas release reportable?	<u>NO</u>	<u>NO</u>
H2S release reportable?	<u>NO</u>	<u>NO</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____
 Signature:  _____ Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

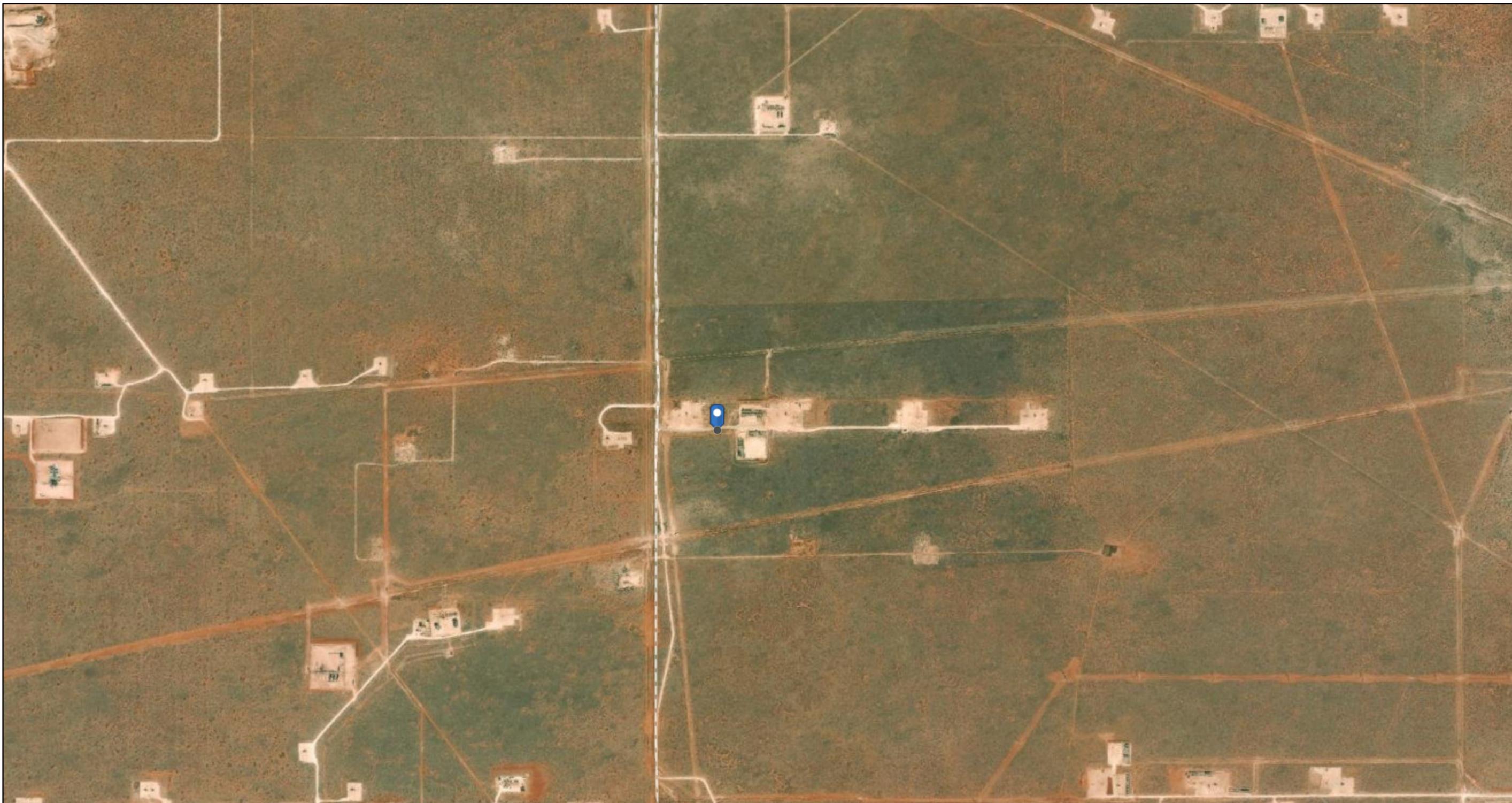
- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

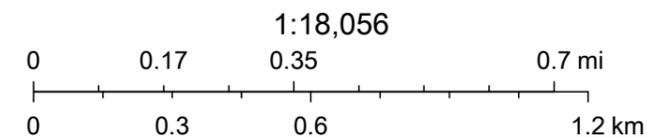
APPENDIX B

Site Characterization Data

OCD Waterbodies Locations



1/27/2023, 4:19:33 PM



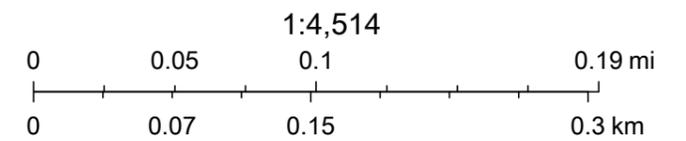
Esri, HERE, Garmin, IPC, Maxar, NM OSE

OCD Potential Karst Map



1/27/2023, 3:52:04 PM
 Karst Occurrence Potential

Low



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar



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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04665	CUB	LE		1	1	2	30	24S	32E	621350	3562798	723	120		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 620631.2

Northing (Y): 3562717.58

Radius: 800

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04665	CUB	LE		1	1	2	30	24S	32E	621350	3562798	723	120		
C 04654 POD1	CUB	ED		3	3	4	25	24S	31E	619764	3561226	1724	55		
C 04636 POD1	CUB	ED		3	4	3	25	24S	31E	619200	3561279	2028			
C 04643 POD1	C	ED		4	2	2	05	23S	27E	619200	3561279	2028	305	135	170

Average Depth to Water: **135 feet**

Minimum Depth: **135 feet**

Maximum Depth: **135 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 620631.2

Northing (Y): 3562717.58

Radius: 2500

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

APPENDIX C

Regulatory Correspondence

Rose-Coss, Dylan H, EMNRD

From: Rose-Coss, Dylan H, EMNRD
Sent: Thursday, August 15, 2019 2:33 PM
To: 'Amos, James'
Cc: DeAnn Grant; Dakota Neel; Sheldon Hitchcock; Ike Tavaréz; Rebecca Haskell; Jennifer Knowlton
Subject: RE: [EXTERNAL] RE: (Resubmittal #2) COG King Tut Federal #1H (2.8.19) Closure Request

Ms. Grant,

The OCD is in agreement with the BLM. At this time the deferral and closure request is denied. Please prepare and resubmit a remediation/reclamation plan that addresses the top four feet of impacted soils at the site.

Thanks,

Dylan Rose-Coss

Environmental Scientist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3488



From: Amos, James <jamos@blm.gov>
Sent: Thursday, August 15, 2019 11:27 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Cc: DeAnn Grant <agrant@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Ike Tavaréz <itavaréz@concho.com>; Rebecca Haskell <RHaskell@concho.com>; Jennifer Knowlton <jknowlton@concho.com>
Subject: Re: [EXTERNAL] RE: (Resubmittal #2) COG King Tut Federal #1H (2.8.19) Closure Request

DeAnn,

After reviewing your request to defer the remediation and restoration of the referenced release of 2/8/19, the BLM will have to deny your Closure Request. Chloride numbers are below Table One, however, they are above the levels that will meet the reclamation/restoration requirements of being below the 600 mg/kg. You may want to explore other options that are out there or remove the top 4', haul, backfill with clean material, and restore the surface. If any questions, please let me know. Thanks

On Tue, Jul 23, 2019 at 10:48 AM Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us> wrote:

Received.

Thanks you. I will attempt to review in a timely manner.

Best,

Dylan Rose-Coss

Environmental Scientist

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

(505) 476-3488



From: DeAnn Grant <agrant@concho.com>

Sent: Monday, July 22, 2019 9:39 AM

To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>; jamos@blm.gov

Cc: DeAnn Grant <agrant@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock

<SLHitchcock@concho.com>; Ike Tavarez <itavarez@concho.com>; Rebecca Haskell <RHaskell@concho.com>; Jennifer

Knowlton <jknowlton@concho.com>

Subject: [EXT] (Resubmittal #2) COG King Tut Federal #1H (2.8.19) Closure Request

Mr. Rose-Coss/Mr. Amos,

Please find the attached Closure Request for the COG King Tut Federal #1H release which occurred on 2/8/19. The Closure Request was originally submitted to the NMOCD District 1 Office on March 27, 2019 and resubmitted May 23, 2019. COG is requesting that you review this Closure Request.

Thank You,

DeAnn Grant

HSE Administrative Assistant

agrant@concho.com

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701
Direct: 432-253-4513 | Main: 432.683.7443



From: Rebecca Haskell

Sent: Thursday, May 23, 2019 3:10 PM

To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>; Jim Amos (jamos@blm.gov) <jamos@blm.gov>

Cc: DeAnn Grant <agrant@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Ike Tavarez <itavarez@concho.com>; Rebecca Haskell <RHaskell@concho.com>; Jennifer Knowlton <jknowlton@concho.com>

Subject: (Resubmittal) COG King Tut Federal #1H (2.8.19) Closure Request

Mr. Rose-Coss/Mr. Amos,

Please find the attached Work Plan for the COG King Tut Federal #1H Release which occurred on 2/8/19. The Closure Request was originally submitted to the NMOCD District 1 Office on March 27, 2019. COG is requesting that you review this Closure Request.

Thank You,

Becky Haskell

Senior HSE Coordinator

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443

Cell: 432-556-5130

rhaskell@concho.com



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From: Gonzales, Clair [<mailto:Clair.Gonzales@tetrattech.com>]

Sent: Wednesday, March 27, 2019 1:20 PM

To: emnrd-ocd-district1spills@state.nm.us; 'jamos@blm.gov' <jamos@blm.gov>

Cc: Rebecca Haskell <RHaskell@concho.com>; Ike Tavarez <itavarez@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; DeAnn Grant <agrnt@concho.com>; Kell, John <John.Kell@tetrattech.com>; Carmona, Mike <Mike.Carmona@tetrattech.com>

Subject: [External] COG King Tut Federal #1H (2.8.19) Closure Request

**** External email. Use caution. ****

Good Morning,

Attached is the closure report for the above referenced site located in Lea County, New Mexico. Please let me know if you have any questions or concerns.

Thank you,

Clair Gonzales

Clair Gonzales | Project Manager

Phone: 432.687.8123 | Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetrattech.com

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901 West Wall Street, Ste 100 | Midland, TX 79701 | www.tetrattech.com

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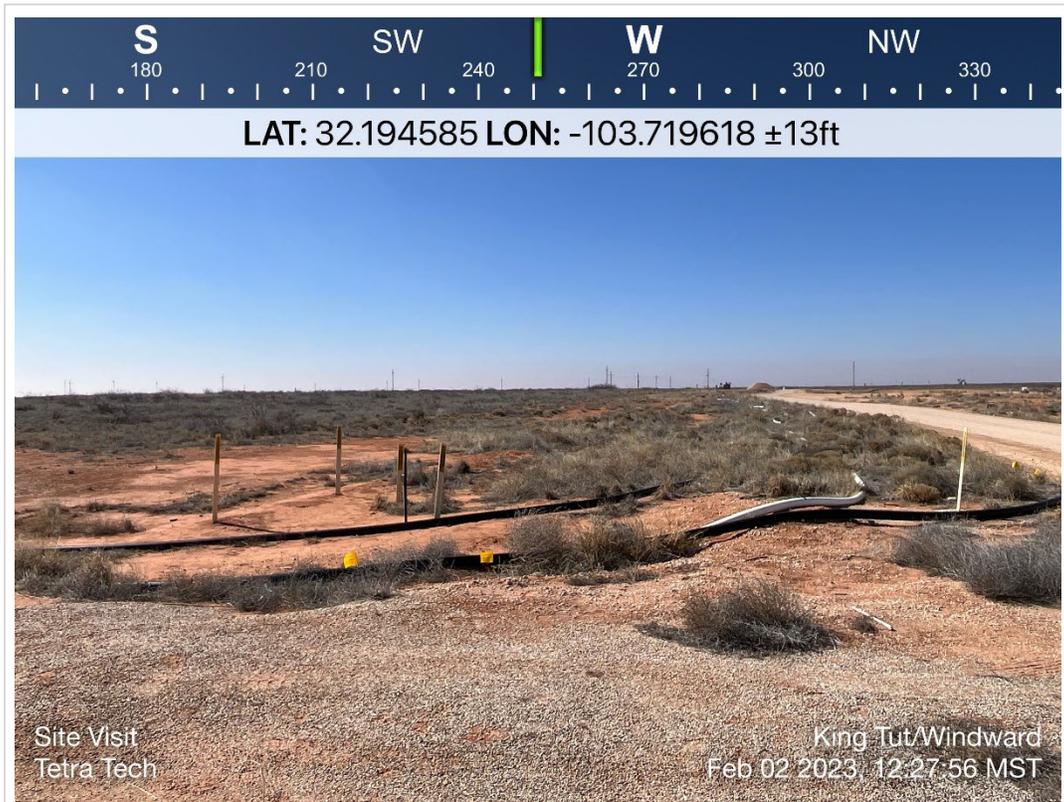
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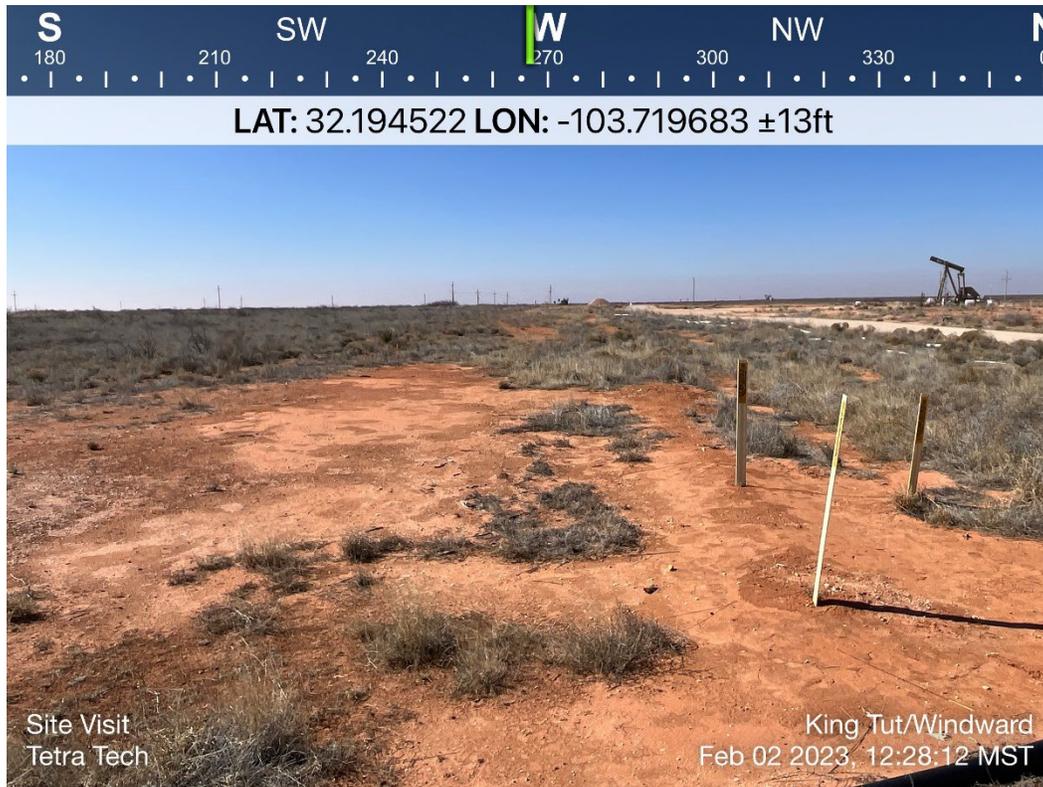
James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Petroleum Engineering Tech
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov

APPENDIX D

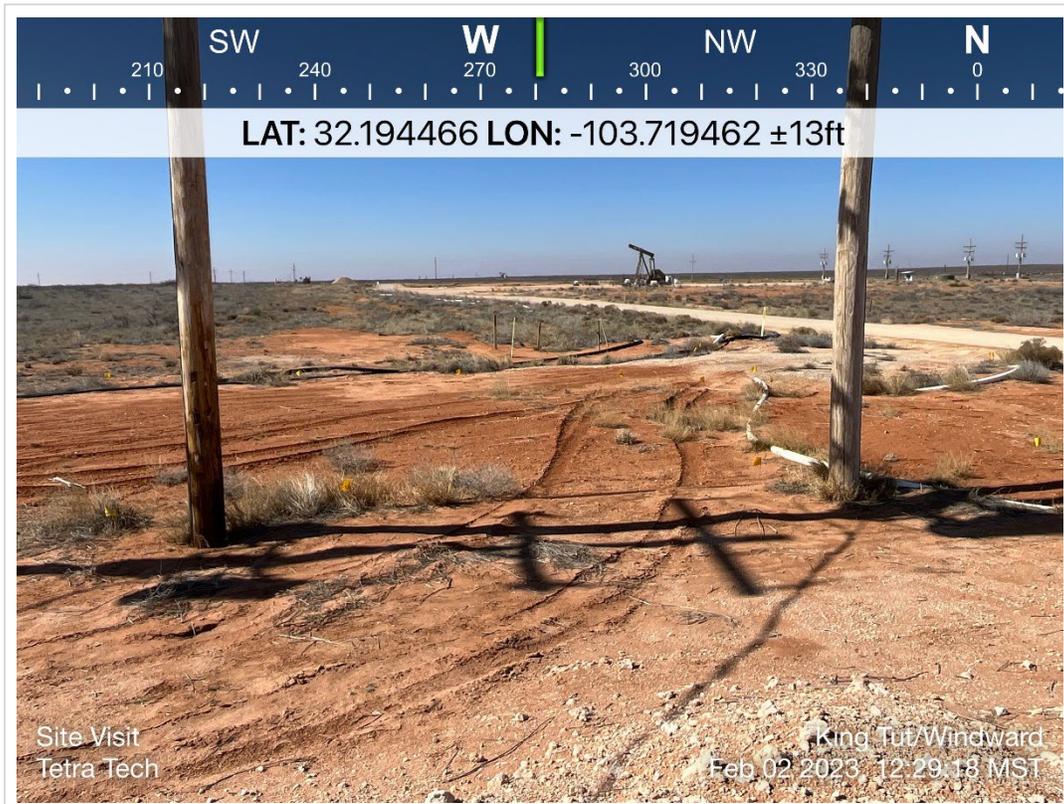
Photographic Documentation



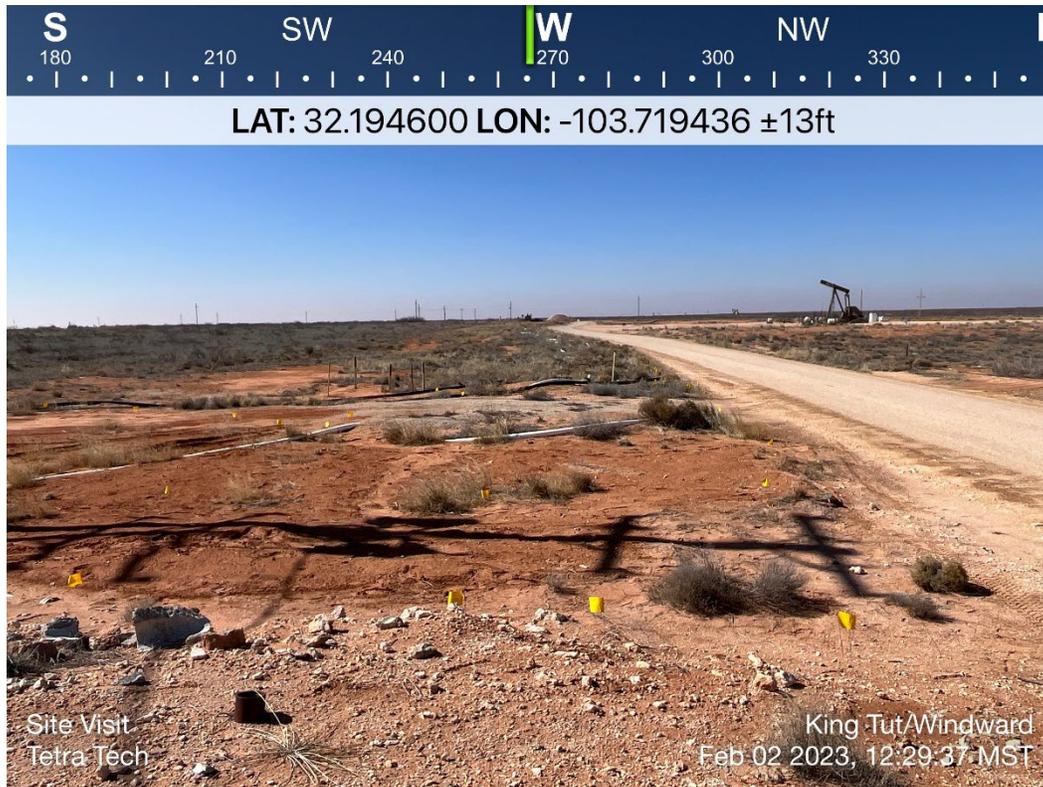
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View SW-W of release extent at the NW corner of pad. Vegetated towards lease road Surface poly-lines present.	1
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



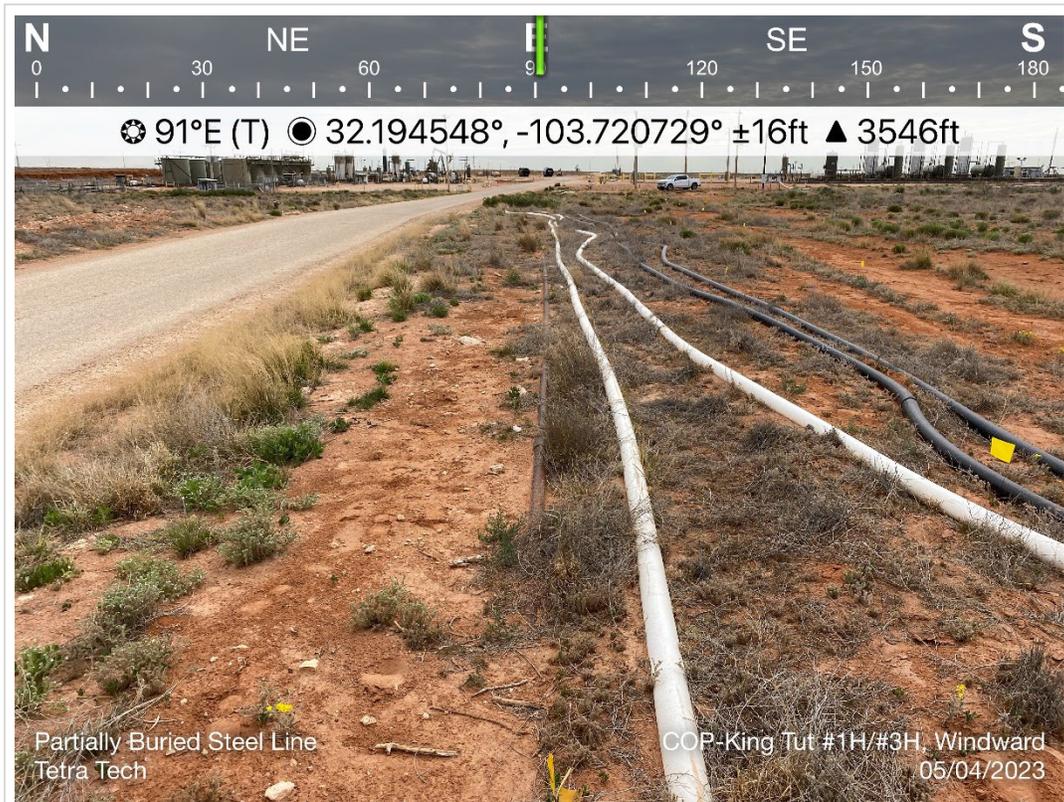
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W of release extent and pipeline right-of-way.	2
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W of lease road and release extent from beneath overhead electrical lines.	3
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



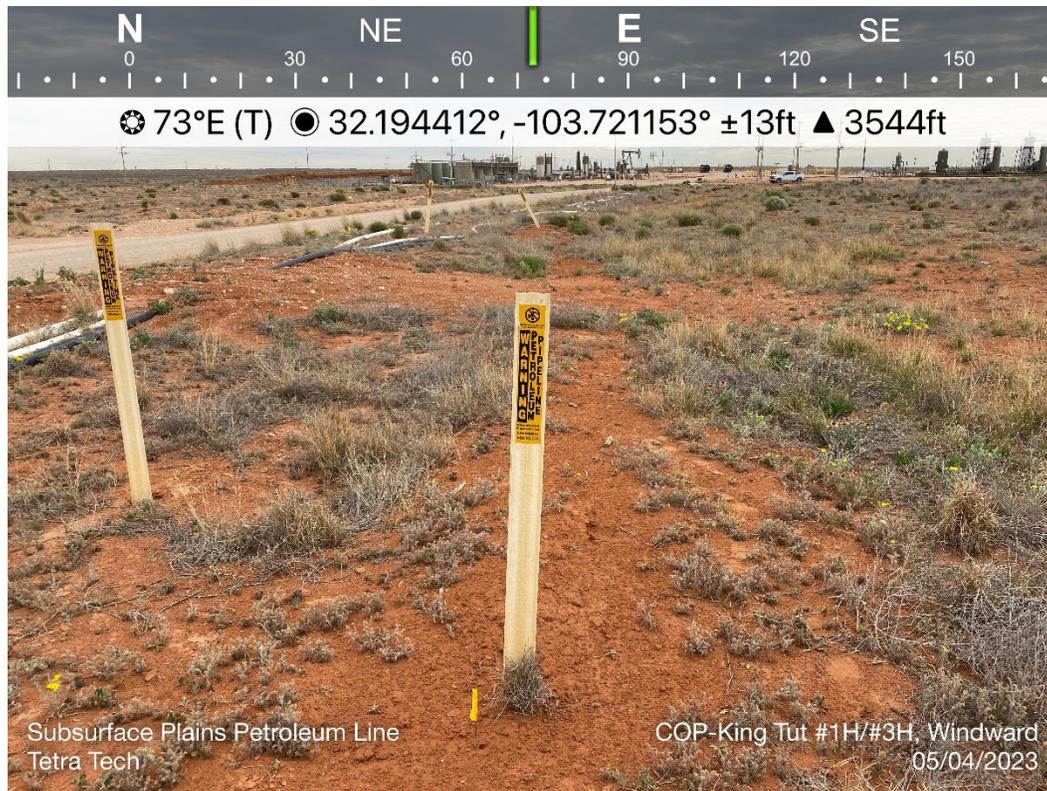
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W towards lease road.	4
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



Partially Buried Steel Line
Tetra Tech

COP-King Tut #1H/#3H. Windward
05/04/2023

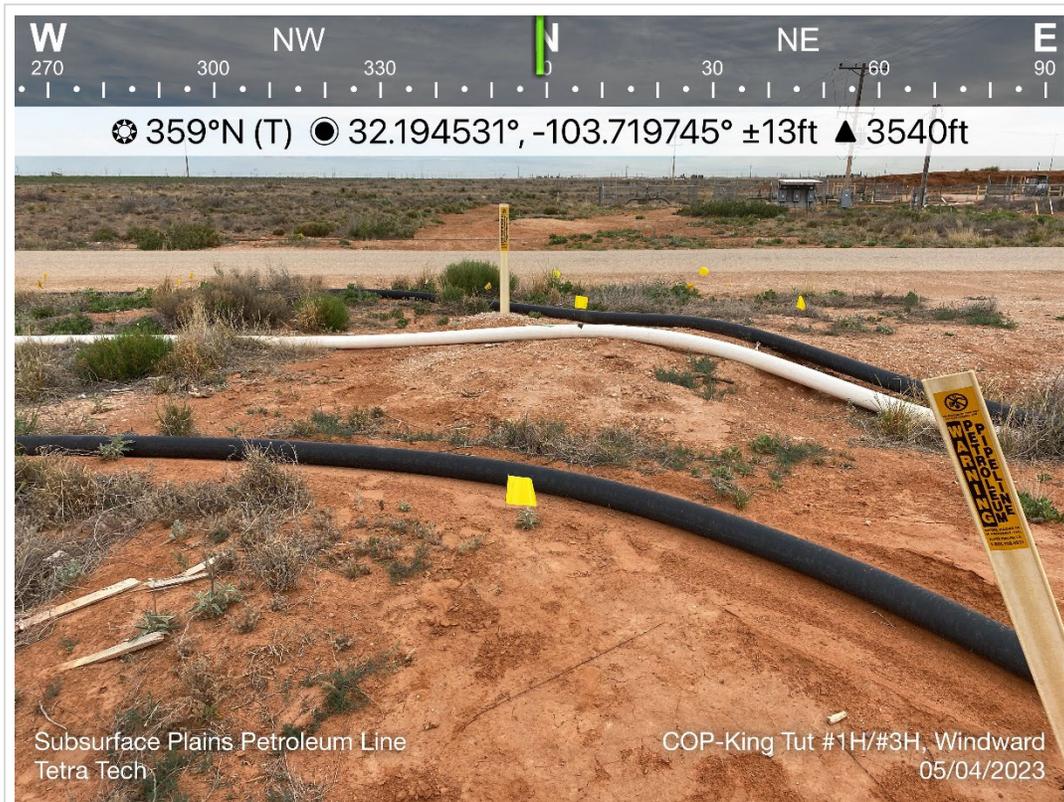
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of historical release area. Surface poly lines and buried steel line.	5
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



Subsurface Plains Petroleum Line
Tetra Tech

COP-King Tut #1H/#3H. Windward
05/04/2023

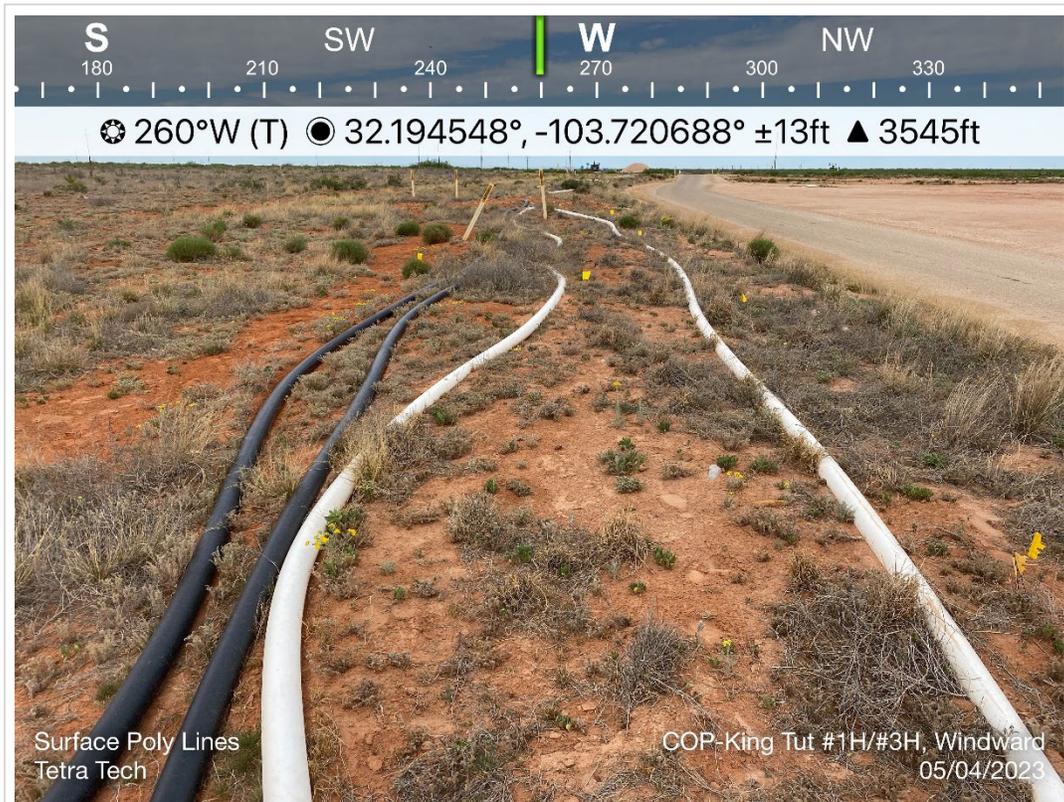
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View northeast. View of surface lines. Vegetation present.	6
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View north. View of surface poly lines.	7
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of historical release area. View of surface poly lines and vegetation present.	8
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of surface poly lines and area of historical release.	9
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View southwest west. View surface poly lines and buried steel line.	10
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023

APPENDIX E

Laboratory Analytical Data



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

September 12, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: KING TUT #001H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/08/23 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 12 (0-1') (H234870-01)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	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	48.0	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 12 (1'-2') (H234870-02)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 12 (2'-3') (H234870-03)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 12 (3'-4') (H234870-04)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 12 (4'-5') (H234870-05)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 13 (0-1') (H234870-06)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 13 (1'-2') (H234870-07)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 13 (2'-3') (H234870-08)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 13 (3'-4') (H234870-09)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 13 (4'-5') (H234870-10)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/11/2023	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	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 14 (0-1') (H234870-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	09/11/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 14 (1'-2') (H234870-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	09/11/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 14 (2'-3') (H234870-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 14 (3'-4') (H234870-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 14 (4'-5') (H234870-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 15 (0-1') (H234870-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 15 (1'-2') (H234870-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 15 (2'-3') (H234870-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 15 (3'-4') (H234870-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 15 (4'-5') (H234870-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 16 (0-1') (H234870-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 16 (1'-2') (H234870-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 16 (2'-3') (H234870-23)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 16 (3'-4') (H234870-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 16 (4'-5') (H234870-25)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 17 (0-1') (H234870-26)

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	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 17 (1'-2') (H234870-27)

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	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 17 (2'-3') (H234870-28)

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	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 17 (3'-4') (H234870-29)

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	09/09/2023	ND	1.90	95.0	2.00	1.86	
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 17 (4'-5') (H234870-30)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 18 (0-1') (H234870-31)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 18 (1'-2') (H234870-32)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	09/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 18 (2'-3') (H234870-33)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 18 (3'-4') (H234870-34)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 18 (4'-5') (H234870-35)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 19 (0-1') (H234870-36)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 19 (1'-2') (H234870-37)

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	09/09/2023	ND	2.07	103	2.00	0.311		
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668		
Total BTEX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	09/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70		
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90		
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 19 (2'-3') (H234870-38)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 19 (3'-4') (H234870-39)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 19 (4'-5') (H234870-40)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 20 (0-1') (H234870-41)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-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	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 20 (1'-2') (H234870-42)

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	09/09/2023	ND	2.07	103	2.00	0.311		
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668		
Total BTEX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	09/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	218	109	200	0.269		
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND						

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 20 (2'-3') (H234870-43)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 20 (3'-4') (H234870-44)

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	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2023	Sampling Date:	09/07/2023
Reported:	09/12/2023	Sampling Type:	Soil
Project Name:	KING TUT #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02999A	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 23 - 20 (4'-5') (H234870-45)

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	09/11/2023	ND	1.75	87.7	2.00	7.51	
Toluene*	<0.050	0.050	09/11/2023	ND	1.81	90.4	2.00	6.80	
Ethylbenzene*	<0.050	0.050	09/11/2023	ND	1.79	89.7	2.00	6.91	
Total Xylenes*	<0.150	0.150	09/11/2023	ND	5.46	91.0	6.00	6.42	
Total BTEX	<0.300	0.300	09/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2023	ND	195	97.3	200	5.54	
DRO >C10-C28*	<10.0	10.0	09/11/2023	ND	187	93.4	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	09/11/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:		Company: Tetra Tech	
Project Manager: Sam Abbott		Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Sam Abbott	
City: Austin		State: TX		Zip:	
Phone #: (512)565-0190		Fax #:		Address: EMAIL	
Project #: 212C-MD-02999A		Project Owner: Comoco/Phillips		City:	
Project Name: King Tut #001H Release		State:		Zip:	
Project Location: Lea County, New Mexico		Phone #:		Fax #:	
Sampler Name: Colton Bickerstaff		Matrix:		PRESERV. SAMPLING	
Lab I.D.		Sample I.D.		DATE	
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		TIME	
1		G 1		9/7/2023	
2		G 1		9/7/2023	
3		G 1		9/7/2023	
4		G 1		9/7/2023	
5		G 1		9/7/2023	
6		G 1		9/7/2023	
7		G 1		9/7/2023	
8		G 1		9/7/2023	
9		G 1		9/7/2023	
10		G 1		9/7/2023	

Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE, ICE / COOL, OTHER:

TPH 8015M, BTEX 8021B, Chloride SM4500CI-B

Relinquished By: Colton Bickerstaff
Received By: [Signature]
Date: 9/8/23
Time: 0925

Delivered By: (Circle One) [Signature]
Sampler - UPS - E: - Other: [Signature]

Observed Temp. °C: 0.8
Corrected Temp. °C: [Blank]

Sample Condition: Cool Intact Yes No

CHECKER BY: [Signature]

Remarks: [Blank]

Thermometer ID: #140
Correction Factor: 9/8/23 70

Standard
Cool Intact

Observed Temp. °C: [Blank]
Corrected Temp. °C: [Blank]

FORM-006 R 3.2 1007/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:	
Project Manager: Sam Abbott		Company: Tetra Tech	
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Sam Abbott	
City: Austin	State: TX	Zip:	
Phone #: (512)565-0190	Fax #:	Address: EMAIL	
Project #: 212C-MD-02999A	Project Owner: ConocoPhillips	City:	State:
Project Name: King Tut #001H Release	State: New Mexico	Zip:	
Project Location: Lea County, New Mexico	Phone #:		
Sampler Name: Colton Bickerstaff	Fax #:		
Lab I.D. H234870	Sample I.D.		
	(G)RAB OR (C)OMP.		
	# CONTAINERS		
	GROUNDWATER		
	WASTEWATER		
	SOIL		
	OIL		
	SLUDGE		
	OTHER :		
	ACID/BASE:		
	ICE / COOL		
	OTHER :		
	DATE		
	TIME		
	TPH 8015M		
	BTEX 8021B		
	Chloride SM4500CI-B		

FIELD NOTE: Sample location, Cardinal number and other reference marks for all other samples collected at this site. This information is to be included in the report. All items including those for reference and any other items withdrawn shall be deemed valid 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 acting 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: Colton Bickerstaff

Date: 9/8/23

Received By: [Signature]

Checked By: [Signature]

Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com

Relinquished By:

Date:

Received By:

Checked By:

REMARKS:

Delivered By: (Circle one) C B

Observed Temp. °C: 0.8

Sample Condition: Cool Moist

Checked By: [Signature]

Turnaround Time: Standard Rush Cool Moist

Thermometer ID: 4444-#440

Correction Factor: -0.50

Observed Temp. °C: 0.8

FORM-006 R.3.2.10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
 Project Manager: Sam Abbott
 Address: 8911 Capital o Texas Hwy, Suite 2310
 City: Austin State: TX Zip:
 Phone #: (512)565-0190 Fax #:
 Project #: 212C-MD-029999A Project Owner: ConocoPhillips
 Project Name: King Tut #001H Release
 Project Location: Lea County, New Mexico
 Sampler Name: Colton Bickerstaff
 P.O. #: Company: Tetra Tech
 Attn: Sam Abbott
 Address: EMAIL
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					
	41 AH-23-20 (0-1')	G 1	1	X					9/7/2023	X	X	X	
	42 AH-23-20 (1-2')	G 1	1	X					9/7/2023	X	X	X	
	43 AH-23-20 (2-3')	G 1	1	X					9/7/2023	X	X	X	
	44 AH-23-20 (3-4')	G 1	1	X					9/7/2023	X	X	X	
	45 AH-23-20 (4-5')	G 1	1	X					9/7/2023	X	X	X	

FOR LAB USE ONLY

Relinquished By: Colton Bickerstaff
 Date: 9/8/23
 Received By: *[Signature]*
 Date: 9/8/23
 Time: *[Signature]*

Observed Temp. °C: 08
 Corrected Temp. °C: *[Signature]*

Sample Condition:
 Cool / Intact: Yes No
 No No

CHECKED BY: *[Signature]* (Initials)
 Verbal Results: Yes No
 Add'l Phone #: *[Signature]*
 All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com

REMARKS:
 Thermometer ID: *[Signature]*
 Bath: *[Signature]*
 Correction Factor: *[Signature]*
 Bacteria (only) Sample Condition: Yes No
 Observed Temp. °C: *[Signature]*
 Corrected Temp. °C: *[Signature]*

FORM-006 R 3.2 10/07/21

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Santa Fe, NM 87505

QUESTIONS

Action 293215

QUESTIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1905046526
Incident Name	NAB1905046526 KING TUT FEDERAL #001H @ 30-025-41542
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-41542] KING TUT FEDERAL #001H

Location of Release Source

Please answer all the questions in this group.

Site Name	KING TUT FEDERAL #001H
Date Release Discovered	02/08/2019
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water 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: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Flow Line - Production Natural Gas Vented Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Flow Line - Production Natural Gas Flared Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
Other Released Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	NA

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QUESTIONS, Page 2

Action 293215

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	<i>Unavailable.</i>

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	<i>Not answered.</i>

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: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 12/11/2023
--	--

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QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (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	No

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)	15100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	17.6
GRO+DRO (EPA SW-846 Method 8015M)	17.6
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	04/11/2024
On what date will (or did) the final sampling or liner inspection occur	04/17/2024
On what date will (or was) the remediation complete(d)	04/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	3775
What is the estimated volume (in cubic yards) that will be reclaimed	560
What is the estimated surface area (in square feet) that will be remediated	3775
What is the estimated volume (in cubic yards) that will be remediated	560

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, Page 4

Action 293215

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 12/11/2023
--	--

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, Page 5

Action 293215

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 293215

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 293215

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 293215
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan and variance request are conditionally approved. If the horizontal extents of the release remediation excavation extend beyond AH-23-12, AH-23-13, and AH-23-20; then these areas will need to be addressed at time of remediation as there are no horizontal delineation points that meet the most stringent closure criteria in the upper four feet east of AH-23-15 and the horizontal delineation points are 70+ feet west of AH-23-20.	1/19/2024
bhall	Wall samples along any 4 foot buffer area of buried pressurized lines will need to be collected and analyzed for all constituents listed in Table I.	1/19/2024
bhall	Submit a complete report through the OCD Permitting website by 4/19/2023.	1/19/2024