

November 30, 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)

Windward Federal #001H

Unit Letter D, Section 30, Township 24 South, Range 32 East

Lea County, New Mexico Incident ID# nOY1721336457

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 Windward Federal #001H well (API No. 30-025-41414). 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 32.194551°, -103.720252°, as shown on Figures 1 and 2.

### **BACKGROUND**

According to the NMOCD C-141 Initial Report, the release occurred on July 25, 2017 when a flowline associated with the Windward Federal #001H well ruptured and released 70 bbls of produced water into the pipeline rights-of-way. Approximately 60 bbls of fluids were recovered with a vacuum truck. The NMOCD assigned this release the Incident ID nOY1721336457 and the remediation permit number 1RP-4772. A copy of the C-141 is included as Appendix A.

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between Concho and the NMOCD signed on November 20 and 26, 2018, respectively.

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

# 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.

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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.

### 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 2018 CLOSURE REQUEST**

On August 15, 2017, Tetra Tech conducted assessment soil sampling at the Site on behalf of Concho. A total of eight (8) boreholes (BH-1 through BH-8) were installed using an air rotary drill rig to depths ranging from 10-25 feet bgs. The sampling locations are presented in Figure 3. The analytical results from the August 2017 soil sampling activities are summarized in Table 1.

Based on the analytical results of the August 2017 assessment sampling, a Work Plan dated September 21, 2017 was submitted to the NMOCD. This Work Plan incorporated all three release extents in the assessment. The Work Plan proposed excavating the release areas with elevated chloride concentrations to approximately 4 feet below surface and installing a 20-mil liner at the base of the excavation. The NMOCD conditionally approved the Work Plan in an email dated October 12, 2017. A copy of regulatory correspondence is included as Appendix C.

During preparations to begin the remediation activities, it was discovered that a second pipeline had been installed by Plains Pipeline adjacent to the first identified pipeline in the release footprint. In order to evaluate the soil after the pipeline installation activities, Tetra Tech returned to the Site on July 27, 2018 to collect additional samples. A total of six (6) auger holes (AH-1 through AH-6) were installed in the areas of boreholes BH-1, BH-2, BH-3, BH-6, BH-7, and BH-8. The sampling locations are presented in Figure 3. The analytical results from the July 2018 soil sampling activities are summarized in Table 1.

Tetra Tech prepared a Closure Report on behalf of Concho dated November 7, 2018 summarizing the assessment sampling results. That same Closure Report was submitted for each individual incident (nAB1905046526, nOY1713048453, and nOY1721336457). The analytical results from the July 2018 soil sampling event were below the Site RRALs for all constituents. Chloride concentrations in samples

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collected from auger holes AH-4, AH-5, and AH-6 exceeded the reclamation requirement of 600 mg/kg in surface soils (0-4 feet bgs). Closure was requested due to safety concerns around the Plains Pipeline infrastructure and soil analytical results below the Site RRALs. Chloride impacts are minimal at the total depth within the deepest assessment boring (BH-8). The analytical results from the sample collected from the 24-25 bgs interval (782 mg/kg) were slightly above the most stringent chloride reclamation requirement and well below the RRAL of 20,000 mg/kg. Surficial impacts were confined to areas within the Plains rights-of-way.

The NMOCD rejected each individual Closure Report in emails dated December 9, 2022 with the following comments:

- "Request for closure denied. Several sample locations are above the reclamation standard of 600 mg/kg for chloride in the upper 4 feet of the impacted area. If necessary, a deferral of the remediation and reclamation could be requested until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. A deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water.
- 1RP-4696 closed. Refer to incident #nOY1713048453 in all future communication.
- Submit a complete report through the OCD Permitting website by 03/10/2023."

The NMOCD approved an individual request for a 90-day extension to June 10, 2023 in an email dated March 10, 2023. A copy of regulatory correspondence is included as Appendix C.

## 2023 HORIZONTAL DELINEATION SAMPLING AND DEFERRAL REQUEST

Following receipt of the NMOCD rejection of the 2018 Closure Report, Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips in order to complete horizontal delineation of the release. On May 5, 2023 Tetra Tech installed eleven (11) hand auger borings (AH-23-1 through AH-23-11) along the perimeter of the reported release extent to complete horizontal delineation. The 2023 boring locations are shown on Figure 4. Photographic documentation of the release area at the time of the horizontal delineation sampling demonstrates established uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels (Appendix D).

A total of eleven (11) 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. Analytical results from the 2023 horizontal delineation soil assessment activities are summarized in Table 2. All analytical results were below the applicable Site RRALs for all constituents.

Tetra Tech prepared a Revised Deferral Request dated May 26, 2023 on behalf of ConocoPhillips based on the results of the additional assessment results and the comments provided by the NMOCD in the December 9, 2022 closure rejection email. The NMOCD rejected the deferral request in an email dated June 6, 2023 with the following comments:

"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. Submit a complete report throught the OCD Permitting website by 9/6/2023."

An extension request to December 5, 2023 was granted in an email dated September 12, 2023. A copy of regulatory correspondence is included in Appendix C.

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# **2023 ADDITIONAL ASSESSMENT ACTIVITIES**

Tetra Tech conducted additional assessment sampling on behalf of ConocoPhillips within the release extent to evaluate current soil concentration levels. 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.

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 predisturbance levels. As the Site is located on federal land, ConocoPhillips will seek BLM concurrence for this variance request and proposed scope of remediation.

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## **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

cc:

Mr. Ike Tavarez, RMR - ConocoPhillips

Christian M. Llull, P.G. Program Manager

ConocoPhillips

# **LIST OF ATTACHMENTS**

# Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Initial Site Assessment (Tetra Tech 2017-2018)

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 – 2017-2018 Initial Soil Assessment

Table 2 – Summary of Analytical Results – 2023 Horizontal Delineation Soil Assessment

Table 3 – Summary of Analytical Results – 2023 Vertical Delineation Soil Assessment

# Appendices:

Appendix A – C-141 Forms

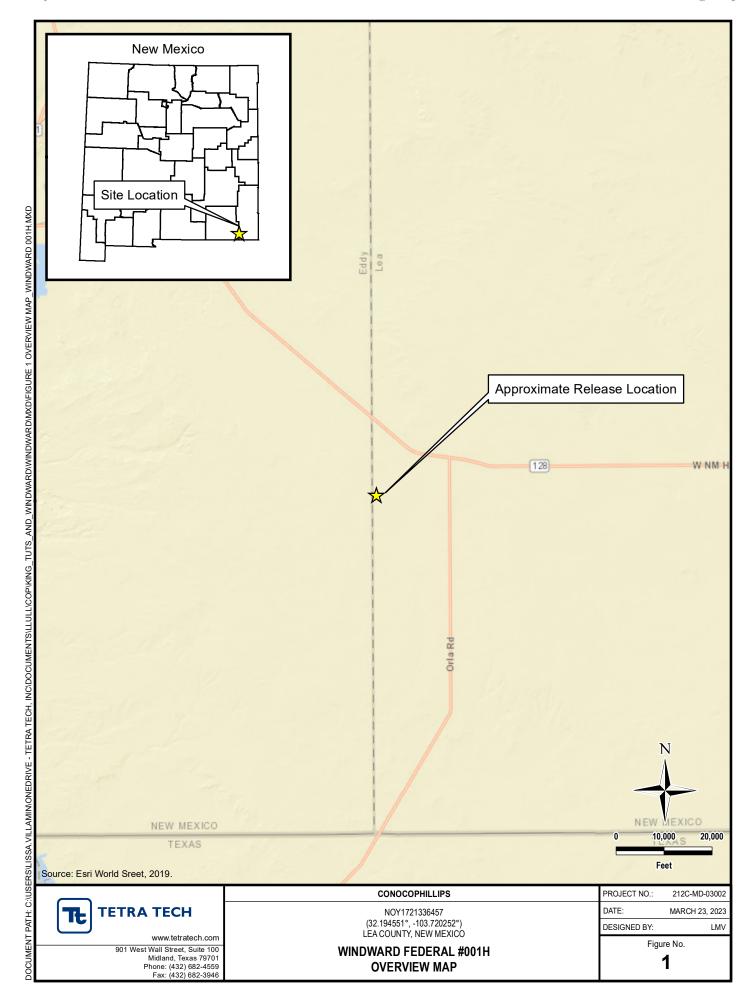
Appendix B – Site Characterization Data

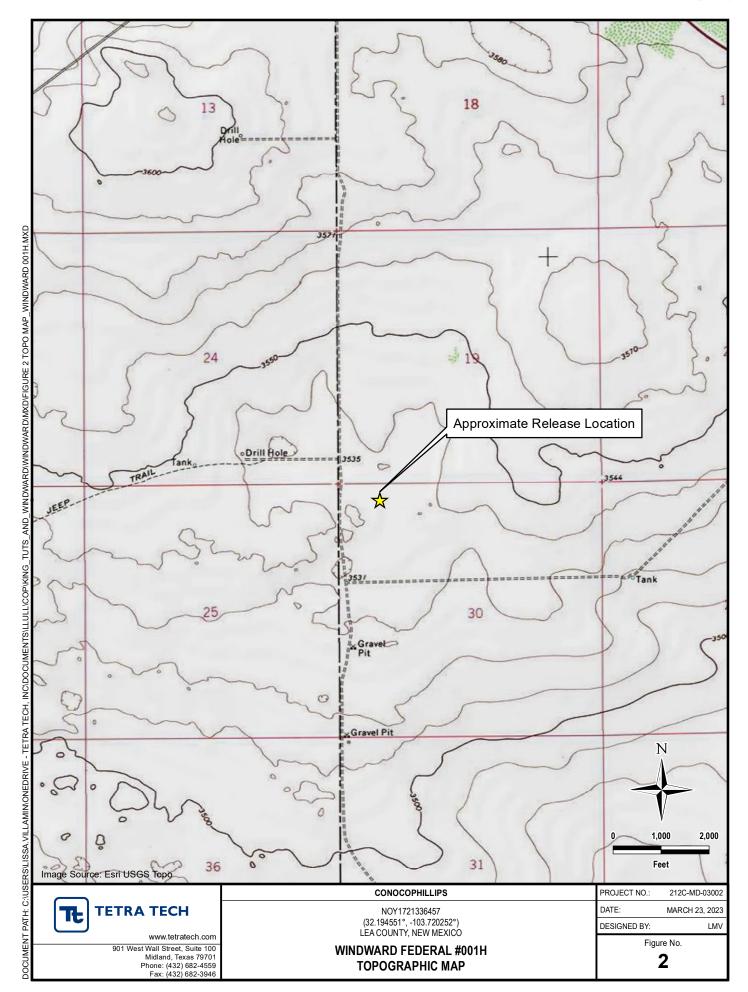
Appendix C – Regulatory Correspondence

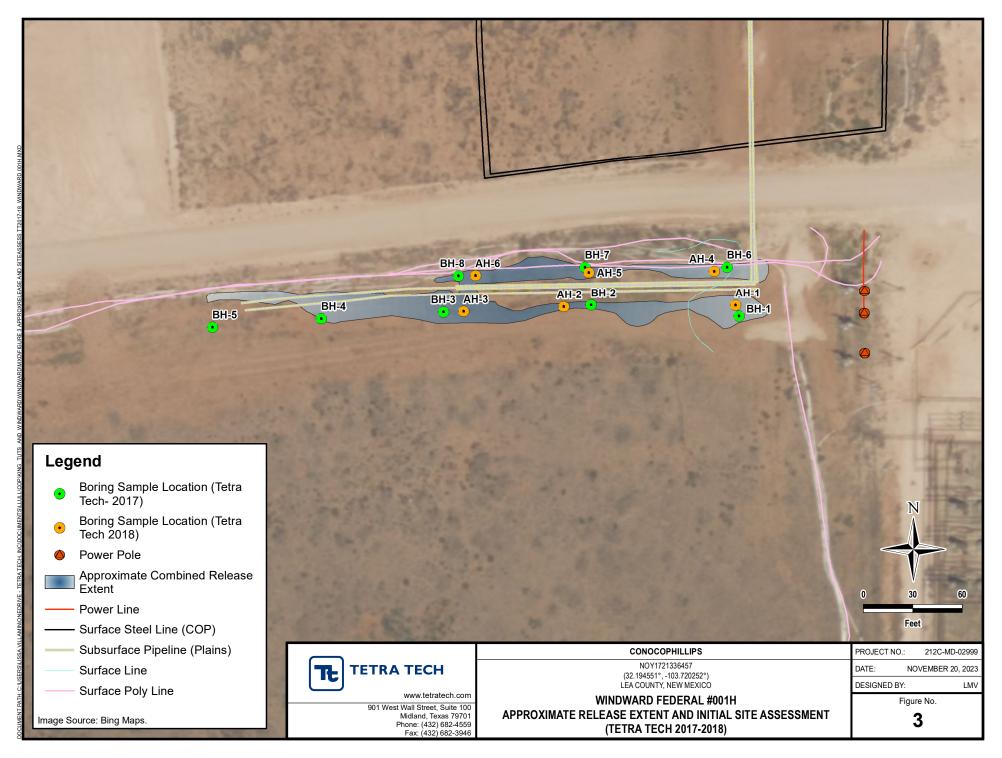
Appendix D – Photographic Documentation

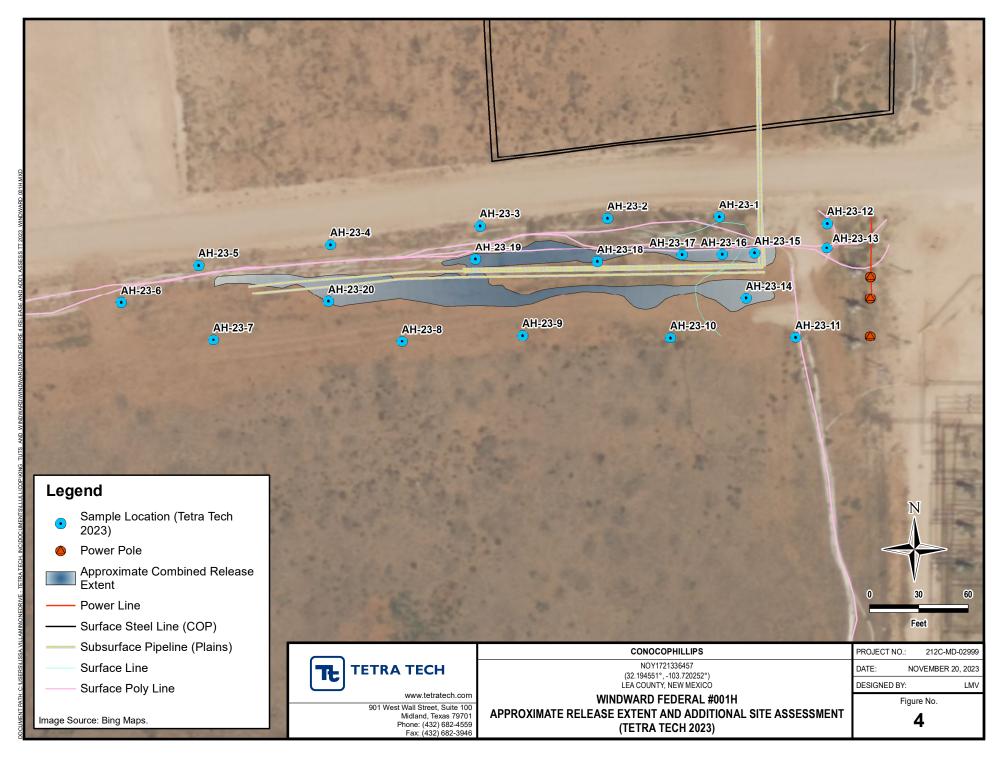
Appendix E – Laboratory Analytical Data

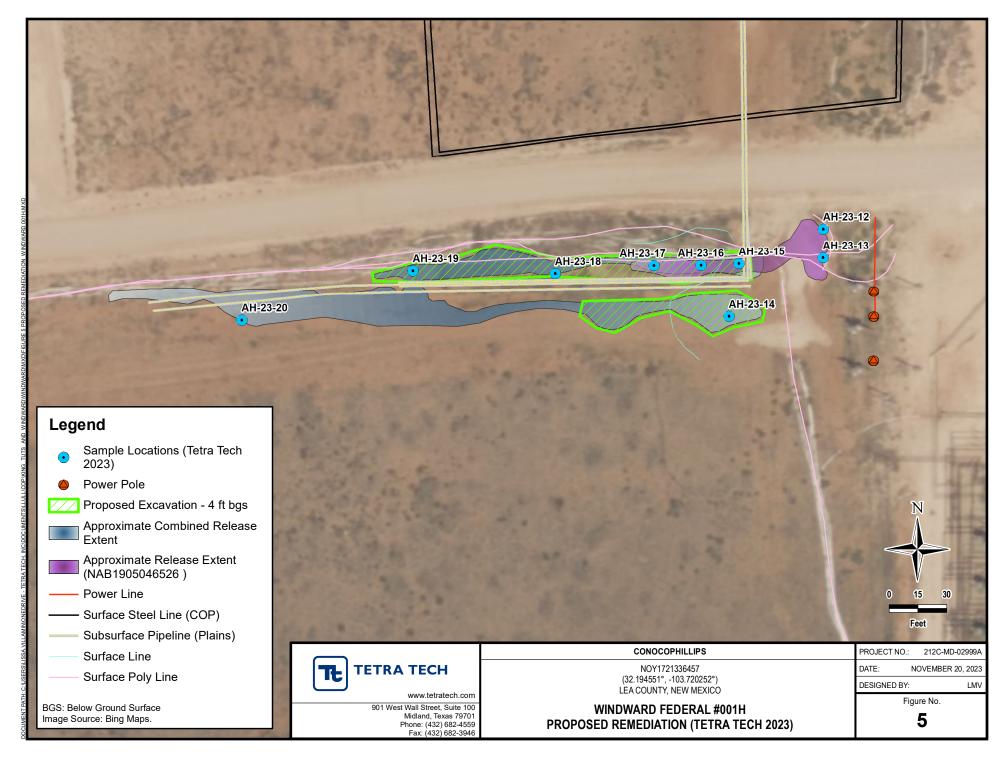
# **FIGURES**











# **TABLES**

### TABLE 1

### SUMMARY OF ANALYTICAL RESULTS

### 2017-2018 INITIAL SOIL ASSESSMENT - nOY1721336457

### CONOCOPHILLIPS

# WINDWARD FEDERAL #001H

LEA COUNTY, NEW MEXICO

			1				BTEX <sup>2</sup>							TF	·H³	
Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>	Benzene	Toluene	Ethylbenzen	e m,p-Xylenes	o-Xyl	ene	Total Xylenes	Total BTEX	GRO		DRO	MRO	Total TPH
		ft. bgs	mg/kg Q	mg/kg Q	mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	Q	mg/kg Q	mg/kg	Q mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg
		0-1	1840	<0.00200	<0.00200	<0.00200	<0.00399	<0.0020	0	<0.00200	<0.00200	<15.0		143	<15.0	143
		2-3	2020	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		4-5	1790	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
BH-1	8/15/2017	6-7	2520	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
DH-1	8/13/2017	9-10	1090	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		14-15	199	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		19-20	116	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		24-25	121	<0.00201	<0.00201	<0.00201	<0.00402	<0.0020	1	<0.00201	<0.00201	<15.0		<15.0	<15.0	<15.0
		0-1	24.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.0020	2	<0.00202	<0.00202	<15.0		<15.0	<15.0	<15.0
		2-3	25.6	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		4-5	1110	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
BH-2	8/15/2017	6-7	920	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		9-10	213	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		14-15	175	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		19-20	126	<0.00201	<0.00201	<0.00201	<0.00402	<0.0020	1	<0.00201	<0.00201	<14.9		<14.9	<14.9	<14.9
		0-1	23.9	<0.00199	<0.00199	< 0.00199	<0.00398	<0.0019	9	<0.00199	<0.00199	<14.9		<14.9	<14.9	<14.9
		2-3	28.5	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		4-5	7960	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
BH-3	8/15/2017	6-7	796	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		9-10	40.5	NA	NA	NA	NA	NA		NA	NA	NA		NA	NA	NA
		14-15	143	<0.00202	<0.00202	<0.00202	<0.00404	<0.0020	2	<0.00202	<0.00202	<15.0		<15.0	<15.0	<15.0
		0-1	613	<0.00200	<0.00200	<0.00200	<0.00401	<0.0020	n	<0.00200	<0.00200	<15.0		<15.0	<15.0	<15.0
		2-3	469	NA NA	NA NA	NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		4-5	737	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
BH-4	8/15/2017	6-7	58.8	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		9-10	41.8	NA NA	NA	NA	NA NA	NA NA		NA NA	NA NA	NA		NA	NA	NA NA
		14-15	331	<0.00202	<0.00202	<0.00202	<0.00404	<0.0020	2	<0.00202	<0.00202	<15.0		<15.0	<15.0	<15.0
		0-1	31	<0.00200	<0.00200	<0.00200	<0.00401	<0.0020	n	<0.00200	<0.00200	<15.0		<15.0	<15.0	<15.0
		2-3	47.8	NA	NA	NA	NA NA	NA		NA	NA	NA		NA NA	NA NA	NA
		4-5	28	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
BH-5	8/15/2017	6-7	24.6	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		9-10	24.8	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		14-15	37	<0.00199	<0.00199	<0.00199	<0.00398	<0.0019	9	<0.00199	<0.00199	<15.0		<15.0	<15.0	<15.0
	1	0-1	183	<0.00201	<0.00201	<0.00201	<0.00402	<0.0020	_	<0.00201	<0.00201	<15.0	+	<15.0	<15.0	<15.0
		2-3	232	<0.00201 NA	<0.00201 NA	<0.00201 NA	<0.00402 NA	<0.0020 NA	1	<0.00201 NA	<0.00201 NA	<15.0 NA		<15.0 NA	<15.0 NA	<15.0 NA
		4-5	859	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
BH-6	8/15/2017	4-5 6-7	2440	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA	-	NA NA	NA NA	NA NA
DH-U	0/13/201/	9-10	562	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		14-15	295	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		19-20	69.2	<0.00202	<0.00202	<0.00202	<0.00404	<0.0020	,	<0.00202	<0.00202	<15.0		<15.0	<15.0	<15.0
	1												+			
		0-1	535	<0.00347	<0.00347	<0.00347	<0.00694	<0.0034	/	<0.00347	<0.00347	<15.0		41.7	<15.0	41.7
		2-3	1370	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
BH-7	8/15/2017	4-5	3100	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA		NA NA	NA NA	NA NA
		6-7	154	NA NA	NA	NA NA	NA	NA NA		NA	NA NA	NA		NA	NA NA	NA
		9-10	46.2	NA	NA	NA	NA	NA O O O O	_	NA	NA	NA 45.0		NA 15.0	NA	NA NA
	1	14-15	82.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.0019	9	<0.00199	<0.00199	<15.0		<15.0	<15.0	<15.0

Received by OCD: 11/30/2023 8:57:35 PM

### TABLE 1

### SUMMARY OF ANALYTICAL RESULTS

### 2017-2018 INITIAL SOIL ASSESSMENT - nOY1721336457

### CONOCOPHILLIPS

# WINDWARD FEDERAL #001H

LEA COUNTY, NEW MEXICO

			1							BTEX <sup>2</sup>									TPH	3			
Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		Benzene	Toluene		Ethylbenzen	ne	m,p-Xylenes	5	o-Xylene		Total Xylenes		Total BTEX	GRO	DRO		MRO		Total TPH	
		ft. bgs	mg/kg	Q	mg/kg	Q mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
		0-1	302		<0.00200	<0.00200		<0.00200		<0.00399		<0.00200		<0.00200		<0.00200	<15.0	<15.0		<15.0		<15.0	
		2-3	1860		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		4-5	7110		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
BH-8	8/15/2017	6-7	5400		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
вп-о	8/15/2017	9-10	1250		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		14-15	440		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		19-20	504		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		24-25	782		<0.00201	<0.00201		<0.00201		<0.00402		<0.00201		<0.00201		<0.00201	<15.0	<15.0		<15.0		<15.0	
		0-1	55.8		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		1-1.5	27.4		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		2-2.5	44.3		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		3-3.5	91.2		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
	- 1 1	4-4.5	596		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
AH-1	6/27/2018	5-5.5	2160		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		6-6.5	2710		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		7-7.5	3020		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		8-8.5	3630		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		9-9.5	3200		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	
		0-1	23.7		NA	NA		NA	Ì	NA		NA		NA		NA	NA	NA		NA		NA	$\equiv$
		1-1.5	35.9		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA		NA NA	$\vdash$
		2-2.5	69.2		NA NA	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA		NA NA	$\vdash$
		3-3.5	225		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA.		NA NA	$\vdash$
		4-4.5	942		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA		NA NA	$\vdash$
AH-2	6/27/2018	5-5.5	2720		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA.		NA NA	$\vdash$
		6-6.5	3640		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA		NA NA	$\vdash$
		7-7.5	4790		NA NA	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA		NA NA	$\vdash$
		8-8.5	5160		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA.		NA NA	$\vdash$
		9-9.5	5920		NA NA	NA NA		NA.		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA		NA		NA NA	$\vdash$
							+											1					H
		0-1 1-1.5	143 67.1		NA NA	NA NA	-	NA NA		NA NA	$\vdash$	NA NA		NA NA		NA NA	NA NA	NA NA	++	NA NA		NA NA	Н
		2-2.5	14.3		NA NA	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA	+	NA NA		NA NA	$\vdash$
		3-3.5	166		NA NA	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA	+ +	NA NA		NA NA	$\vdash$
		4-4.5	1160		NA NA	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA	+ +	NA NA		NA NA	$\vdash$
AH-3	6/27/2018					<b>.</b>											<b>-</b>	-	+ +				$\vdash$
		5-5.5 6-6.5	3750 4080	$\vdash$	NA NA	NA NA	-	NA NA		NA NA	$\vdash$	NA NA		NA NA		NA NA	NA NA	NA NA	++	NA NA	$\vdash$	NA NA	Н
		7-7.5	4520	H	NA NA	NA NA		NA NA		NA NA		NA NA		NA NA		NA NA	NA NA	NA NA	+	NA NA		NA NA	$\vdash$
		7-7.5 8-8.5	6990	H	NA NA	NA NA	-	NA NA	+	NA NA	H	NA NA	$\vdash$	NA NA		NA NA	NA NA	NA NA	+	NA NA	++	NA NA	$\vdash$
		9-9.5	5220	H	NA NA	NA NA	-	NA NA		NA NA	$\vdash$	NA NA	$\vdash$	NA NA		NA NA	NA NA	NA NA	++	NA NA	$\vdash \vdash$	NA NA	Н
	<u> </u>																	1	1 1				=
		0-1	2480		NA	NA		NA		NA		NA		NA		NA	NA	NA	+	NA	$\vdash$	NA	$\vdash$
		1-1.5	2010	H	NA	NA NA		NA NA		NA		NA NA		NA		NA NA	NA	NA NA	++	NA		NA	
		2-2.5	1040		NA	NA NA		NA		NA		NA NA		NA		NA NA	NA	NA NA		NA		NA	
		3-3.5	840	H	NA	NA NA		NA		NA		NA NA		NA		NA NA	NA NA	NA NA		NA		NA	
AH-4	6/27/2018	4-4.5	428	H	NA	NA NA	-	NA NA	1	NA	$\vdash$	NA NA	$\vdash$	NA		NA NA	NA	NA NA	++	NA	$\vdash$	NA	$\vdash$
		5-5.5	420	H	NA	NA		NA	$\perp$	NA		NA		NA		NA	NA	NA	+	NA	₩	NA	Н
		6-6.5	534	H	NA	NA NA		NA NA		NA		NA NA	$\vdash$	NA		NA NA	NA	NA NA	+	NA	$\vdash \vdash$	NA	$\vdash$
		7-7.5	767	H	NA	NA		NA		NA		NA	$\vdash$	NA		NA	NA	NA	+	NA	$\vdash \vdash$	NA	Н
		8-8.5	1840	H	NA	NA NA		NA		NA		NA NA	$\vdash$	NA		NA NA	NA	NA NA	+	NA	$\vdash \vdash$	NA	$\vdash$
		9-9.5	3600		NA	NA		NA		NA		NA		NA		NA	NA	NA		NA		NA	Ш

### TABLE 1

### SUMMARY OF ANALYTICAL RESULTS

### 2017-2018 INITIAL SOIL ASSESSMENT - nOY1721336457

### CONOCOPHILLIPS

# WINDWARD FEDERAL #001H

LEA COUNTY, NEW MEXICO

		Sample Depth	Chloride <sup>1</sup>						BTEX <sup>2</sup>											TPH	l <sup>3</sup>			
Sample ID	Sample Date	Sample Depth	Chloride	Benzene	Tolu	ene	Ethylbenzei	ne	m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TP	²H
		ft. bgs	mg/kg Q	mg/kg	Q mg/kg	C	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	).	mg/kg Q	mg	g/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
		0-1	2650	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		1-1.5	2590	NA	NA		NA		NA		NA		NA		NA	١	AV		NA		NA		NA	
		2-2.5	3240	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	П
		3-3.5	6070	NA	NA		NA		NA		NA		NA		NA	1	AV		NA		NA		NA	П
AH-5	6/27/2018	4-4.5	3890	NA	NA		NA		NA		NA		NA		NA	1	AV		NA		NA		NA	
AH-3	0/2//2018	5-5.5	3280	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		6-6.5	2330	NA	NA		NA		NA		NA		NA		NA	1	AV		NA		NA		NA	
		7-7.5	2540	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		8-8.5	2250	NA	NA		NA		NA		NA		NA		NA	1	AV		NA		NA		NA	
		9-9.5	2670	NA	NA		NA		NA		NA		NA		NA	N	NΑ		NA		NA		NA	
		0-1	556	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		1-1.5	2270	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		2-2.5	2380	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		3-3.5	3340	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
AH-6	6/27/2018	4-4.5	4150	NA	NA		NA		NA		NA		NA		NA	N	AV		NA		NA		NA	
		5-5.5	2020	NA	NA		NA		NA		NA		NA		NA	N	NΑ		NA		NA		NA	
		6-6.5	508	NA	NA		NA		NA		NA		NA		NA	N	NA		NA		NA		NA	
		7-7.5	1290	NA	NA		NA		NA		NA		NA		NA	N	NΑ		NA		NA		NA	Т
		8.5-9	684	NA	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	Ξ

NOTES: ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics
DRO Diesel range organics

MRO Motor Oil range organics

NA Sample not analyzed for parameter

1 EPA Method 300.0

2 EPA Method 8021B

3 Method SW8015 Mod NA Sample not analyzed for parameter QUALIFIERS:

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

# TABLE 2

# **SUMMARY OF ANALYTICAL RESULTS**

# 2023 HORIZONTAL DELINEATION SOIL ASSESSMENT - nOY1721336457

# CONOCOPHILLIPS

# WINDWARD FEDERAL #001H

LEA COUNTY, NEW MEXICO

									ВТЕХ	2								TI	PH <sup>3</sup>		
Sample ID	Sample Date	Sample Depth	Chlorid	le <sup>1</sup>	Benzei	20	Toluer	10	Ethylben	, on o	Total Xyl	nnos	Total B1	EV	GRO		DRO		EXT DR	O	Total TPH
Sample 1D	Sample Date				Belizei	ie	Toluei	ie	Ethylbeni	terre	Total Ayl	elles	TOtal Bi	EA	<b>C</b> <sub>6</sub> - <b>C</b> <sub>1</sub>	10	> C <sub>10</sub> - (	C <sub>28</sub>	> C <sub>28</sub> - (	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-23-1	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-2	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-3	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-4	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-5	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-6	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-7	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-8	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-9	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-10	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-11	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

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

# 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 SM4500Cl-B

Method 8015M

2 Method 8021B

3

Received by OCD: 11/30/2023 8:57:35 PM

# TABLE 3 SUMMARY OF ANALYTICAL RESULTS 2023 VERTICAL DELINEATION SOIL ASSESSMENT - nOY1721336457 CONOCOPHILLIPS WINDWARD FEDERAL #001H LEA COUNTY, NEW MEXICO

									BTEX <sup>2</sup>								Т	PH <sup>3</sup>		
Commis ID	Comula Data	Sample Depth	Chloric	de	Damas		Talua		Fabrulla annon a	Total V	damaa	Total D	FFV	GRO		DRC	)	EXT D	RO	Total TPH
Sample ID	Sample Date				Benzei	ne	Toluer	ne	Ethylbenzene	Total Xy	lenes	Total B	IEX	<b>C</b> <sub>6</sub> - <b>C</b> <sub>1</sub>	10	> C <sub>10</sub> -	C <sub>28</sub>	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		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		-
AH-23-12	9/7/2023	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		-
	<u> </u>	4-5	192		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
		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		-
AH-23-13	9/7/2023	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		-
	<u> </u>	4-5	192		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
		0-1	1,550		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
	2 /2 /2 2 2	1-2	1,390		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-14	9/7/2023	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		-
	<u> </u>	4-5	448		<0.050		<0.050		<0.050	<0.150	+	<0.300		<10.0		<10.0		<10.0		-
		0-1	5,600		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
	0 /= /0000	1-2	3,000		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-15	9/7/2023	2-3	2,680		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4 4-5	<b>2,480</b> 1,680		<0.050 <0.050		<0.050		<0.050 <0.050	<0.150 <0.150		<0.300 <0.300		<10.0 <10.0		<10.0 <10.0		<10.0 <10.0		-
	1		<u> </u>							_				<u> </u>						-
		0-1	5,040		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
AU 22 16	0/7/2022	1-2	2,840		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-16	9/7/2023	2-3 3-4	3,200 2,640		<0.050 <0.050		<0.050		<0.050 <0.050	<0.150 <0.150		<0.300 <0.300		<10.0 <10.0		<10.0 <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		-
		0-1 1-2	256 <b>960</b>		<0.050 <0.050		<0.050		<0.050 <0.050	<0.150 <0.150		<0.300 <0.300		<10.0 <10.0		<10.0 <10.0		<10.0 <10.0		-
AH-23-17	9/7/2023	2-3	1,960		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
All 23 17	3/1/2023	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		<del>-</del>
	1		256		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		
		0-1 1-2	912		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-23-18	9/7/2023	2-3	1,840		<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		<10.0		<10.0		-
	1,1,2320	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		-
		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		-
AH-23-19	9/7/2023	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		-
	<u> </u>			1		ı	•	<u> </u>	<u> </u>	1	ı	<u> </u>	<u> </u>		ı		1	<u> </u>	l	<u> </u>

# TABLE 3

# **SUMMARY OF ANALYTICAL RESULTS**

# 2023 VERTICAL DELINEATION SOIL ASSESSMENT - nOY1721336457

# CONOCOPHILLIPS

# WINDWARD FEDERAL #001H

LEA COUNTY, NEW MEXICO

									BTEX	2								TI	PH <sup>3</sup>		
Sample ID	Sample Date	Sample Depth	Chloric	de	Ponzor	••	Toluer		Ethylben	·ono	Total Xyl	onos	Total B	rev	GRO		DRO		EXT DE	RO	Total TPH
Sample 1D	Sample Date				Benzer	ie	Toluei	ie	Ethylbena	zene	TOTAL AYI	enes	IOLAID	IEX	C <sub>6</sub> - C <sub>1</sub>	.0	> C <sub>10</sub> - 0	C <sub>28</sub>	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		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		-
AH-23-20	9/7/2023	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 SM4500Cl-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**

Form C-141

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

Revised August 8, 2011
Submit I Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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			Rele	ase Notific	atio	n and C	orr	ective A	ction	1			
						<b>OPER</b>	OTA	R			l Report		Final Report
				OGRID # 229		Contact:			Ro	bert McNe	ill		
Address:				lland TX 79701		Telephone				2-683-744 <u>:</u>	3		
Facility Nar	ne: Windw	ard Federal	#001 <b>H</b>	******		Facility Ty	уре:		Flo	wline	_		
Surface Ow	mer: Fe	deral		Mineral C	wner:	Federal				API No.	30-02	5-414	114
				LOCA	OITA	N OF RE	ELE	ASE					
Unit Letter D	Section 30	Township 24S	Range 32E	Feet from the 190	Nortl	h/South Line North	F	eet from the 430		West Line West		Cour	•
	, 50	2.0	362	Latitude 32	.19455		de -10						
				NAT	URE	OF REI	LEA	SE					
Type of Rele	ase:					Volume				Volume R	ecovered:		
	Produced Water							0 bbls.			60 b		
Source of Re	Source of Release: Flowline							of Occurrence 2017 3:00 pm			Hour of Dis July 25, 20		
Was Immedi	ate Notice C					If YES, 7					uly 23, 20	173.00	) pin
			Yes	No Not Re	equired				- NMO	CD / Ms. Tu	cker – BLN	1	
	Ву	Whom? Reb	ecca Hask	ell				: July 26, 201					
Was a Water	course Reac	hed?	Yes 🗵	No		If YES, V	Volum	ne Impacting t	he Wat	ercourse.			
If a Waterco	urse was Im	pacted, Descr	ibe Fully.				DE	CENTE	<u> </u>				
								CEIVE					
Describe Cau	use of Proble	em and Reme	dial Action	n Taken.*	127		3 <i>y</i> (	Olivia Yu	u at	7:31 an	n, Aug	01,	2017
The release v	was caused b	y a rupture in	a flowlin	e. The flowline w	as repa	ired.							
Describe Arc	a Affected	and Cleanup A	Action Tal	cen.*									
				k was dispatched l present a remed									
regulations a public health should their or the enviro	Il operators or the environerations had not be operations had not be a second	are required to ronment. The nave failed to a	o report are acceptance acceptanc	e is true and comp nd/or file certain race of a C-141 report vinvestigate and ratance of a C-141	elease of the contract of the	notifications he NMOCD ite contamina	and p marke ation 1	perform corrected as "Final Rithat pose a thr	tive act eport" of eat to g	ions for rele does not reli round water	ases which eve the ope , surface wa	may e rator o ater, hu	endanger of liability uman health
Signature: 1	lebecca	Hisk	11					OIL CON	SERV		A .	<u>N</u>	
Printed Nam		Rebecca	Haskell			Approved b	oy Env	vironmental S	pecialis	it:			
Title:		Senior HS	SE Coordi	nator		Approval D		8/1/2017	7	Expiration I	V Date:		
E-mail Addr	ess:	rhaskell@	concho.c	om		Conditions		proval;			Attached		

\* Attach Additional Sheets If Necessary

Phone:

Date: July 28, 2017

432-683-7443

1RP-4772 nOY1721336457

see attached directive

pOY1721336911

Received by OCD: 11/30/2023 Form C-141	8:57:35 PM State of New Mexico
Page 3	Oil Conservation Division

	Page 22 of 102
Incident ID	
District RP	
Facility ID	
Application ID	

# **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	ls.

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.

Received by OCD: 11/30/2023 8:57:35 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Page	13	Λī	' '   '	1/
1 466	43	$\boldsymbol{\sigma}$		<i>y 244</i>

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:					

Received by OCD: 11/30/2023 8:57:35 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 24 of 102
Incident ID	
District RP	
Facility ID	
Application ID	

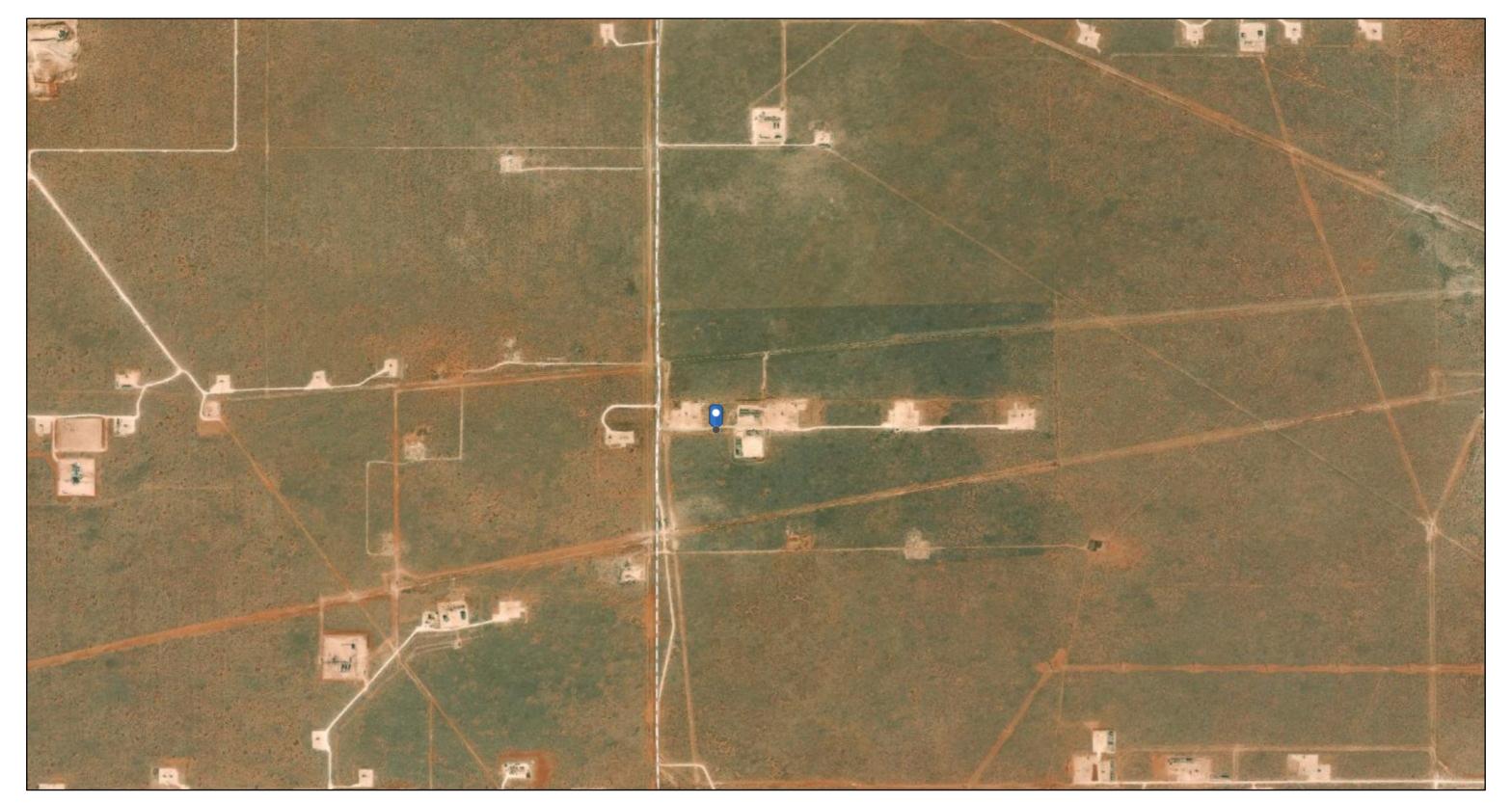
# **Remediation Plan**

Remediation Plan Checklist: Fach of the following items must h	e included in the 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)								
Defermal Degreests Only First of the fellowing items must be								
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmea 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 healt	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: _ M TS								
email:	Telephone:							
OCD Only								
Received by:	Date:							
☐ Approved ☐ Approved with Attached Conditions of	Approval							
Signature:	Date:							

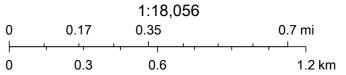
# **APPENDIX B Site Characterization Data**

Page 26 of 102

# **OCD Waterbodies Locations**



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



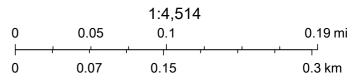
Esri, HERE, Garmin, iPC, Maxar, NM OSE

# 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)

(In feet)

**POD** 

Sub-QQQ

Code basin County 64 16 4 Sec Tws Rng

1 1 2 30 24S 32E

621350 3562798

(NAD83 UTM in meters)

Depth Depth Water **Well Water Column Distance** 723 120

Average Depth to Water:

Minimum Depth:

Maximum Depth:

**Record Count: 1** 

**POD Number** 

C 04665

**UTMNAD83 Radius Search (in meters):** 

Radius: 800 Easting (X): 620631.2 Northing (Y): 3562717.58



# 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												
	Sub-		Q	Q							Depth	Depth	Water
POD Number	Code basin (	County	64 1	6 4	Sec	Tws	Rng	Х	Y	Distance	Well	Water	Column
C 04665	CUB	LE	1 1	1 2	30	24S	32E	621350	3562798 🌑	723	120		
C 04654 POD1	CUB	ED	3 3	3 4	25	24S	31E	619764	3561226 🌍	1724	55		
C 04636 POD1	CUB	ED	3 4	1 3	25	24S	31E	619200	3561279 🌑	2028			
C 04643 POD1	С	ED	4 2	2 2	05	23S	27E	619200	3561279 🌍	2028	305	135	170

Average Depth to Water: 135 feet

> Minimum Depth: 135 feet

135 feet Maximum Depth:

**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

From: Yu, Olivia, EMNRD

To: Rebecca Haskell: Tavarez, Ike: Tucker, Shelly: hprice@blm.gov; Billings, Bradford, EMNRD

Cc: Robert McNeill; Dakota Neel; Aaron Lieb; Gonzales, Clair

Subject: RE: COG - King Tut/Windward Work Plan Approval Request

**Date:** Monday, October 23, 2017 1:59:00 PM

Ms. Haskell:

In regards to the proposed remedial activities for 1RP-4485, 1RP-4696, 1RP-4772:

- After review of the provided data, NMOCD will agree that BTEX and TPH analyses will not be necessary for the stockpiled soil used for backfilling.
- Correct; for point #3, bottom confirmation samples were not required, only samples from sidewalls.

Thanks, Olivia

**From:** Rebecca Haskell [mailto:RHaskell@concho.com]

**Sent:** Monday, October 23, 2017 1:28 PM

**To:** Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Tavarez, Ike <Ike.Tavarez@tetratech.com>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>

**Cc:** Robert McNeill <RMcNeill@concho.com>; Dakota Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>; Gonzales, Clair <Clair.Gonzales@tetratech.com>

Subject: RE: COG - King Tut/Windward Work Plan Approval Request

Ms. Yu,

- 1. For areas represented by B-2, B-3, and B-6:
  - First bullet point, why are you requiring that we sample for BTEX and TPH. The spills were produced water and we have already established that BTEX and TPH are not a concern at this site?
  - Third bullet point, bottom samples should not be required because we are installing a liner.

Otherwise COG agrees to the stipulations outlined below,

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: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Thursday, October 12, 2017 9:38 AM

**To:** Tavarez, Ike; Tucker, Shelly; <a href="mailto:hprice@blm.gov">hprice@blm.gov</a>; Billings, Bradford, EMNRD **Cc:** Rebecca Haskell; Robert McNeill; Dakota Neel; Aaron Lieb; Gonzales, Clair **Subject:** [External] RE: COG - King Tut/Windward Work Plan Approval Request

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

Mr. Tavarez:

NMOCD will agree to the proposed remediation plan for 1RP-4485, 1RP-4696, 1RP-4772 with these stipulations.

- 1. For the areas represented by B-2, B-3, and B-6:
  - 2-3 ft. of low-chloride soil is allowed to be stockpiled on plastic on location for use in backfilling. One soil sample per 25 yd3 must be laboratory tested for BTEX (Method 8260 or 8021), TPH extended (Method 8015), and chlorides (Method 300).
  - The 4<sup>th</sup>-5<sup>th</sup> foot bgs of soil must be removed and a 40 mil liner properly placed at the bottom.
  - Confirmation bottoms and sidewalls for each of these areas are required at no greater than 50 ft. distance interval.
- 2. For the area represented by B-4 and B-5, NMOCD will grant that no remedial activity will be required. 2 sidewall samples are required: 1 at the border with the area represented by B-8 and 1 at the border for B-3 area.
- 3. For the areas represented by B-1, B-7, and B-8: remove 4 ft. of chloride-impacted soil and properly set a 40 mil liner at the bottom. Confirmation sidewall samples are required.
- 4. Provide a scaled map with 1) locations of confirmation bottom and sidewalls marked for each of the excavated areas; 2) lined areas outlined; and 3) release points for 1RP-4485, 1RP-4696, and 1RP-4772 annotated.

Also, for this release only, NMOCD will not require further vertical delineation for B-8. Please be advised that this is an exception.

Please confirm or inform if additional clarification is required.

Thanks,

Olivia Yu

**Environmental Specialist** 

NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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

**From:** Tavarez, Ike [<u>mailto:Ike.Tavarez@tetratech.com</u>]

Sent: Thursday, October 5, 2017 3:41 PM

**To:** Yu, Olivia, EMNRD < <u>Olivia.Yu@state.nm.us</u>>; Tucker, Shelly < <u>stucker@blm.gov</u>>; <u>hprice@blm.gov</u>; Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>

**Cc:** Rebecca Haskell < RHaskell@concho.com >; Robert McNeill < RMcNeill@concho.com >; Dakota

<<u>Clair.Gonzales@tetratech.com</u>>

**Subject:** RE: COG - King Tut/Windward Work Plan Approval Request

Olivia,

Thanks for meeting with me to discuss some of the questions for the above mention project. Let me know if you need additional information. Once approved, the proposed remediation will be implemented.

- For the reuse material, Tetra Tech will remove (0-3'), segregate and stockpile the material into 25-50 cubic yards piles for sampling. If the stockpile is below 600 mg/kg (chlorides), the material will be placed back into the excavation. Any stockpile material (25-50 cubic yards) above 600 mg/kg will be hauled to disposal.
- The area of BH-8 did show a chloride concentration of 782 mg/kg at 24'-25', slightly above the 600 mg/kg threshold. As discussed, the area of BH-8 will be capped with a 40 mil liner, as proposed in the work plan.

## Ike Tavarez, PG | Senior Project Manager

Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

### Ike.Tavarez@tetratech.com

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4000 North Big Spring, Suite 401 | Midland, TX 79705 | www.tetratech.com

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Wednesday, October 04, 2017 9:03 AM

**To:** Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>; Tucker, Shelly < <u>stucker@blm.gov</u>>; <u>hprice@blm.gov</u>; Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>

**Cc:** Rebecca Haskell < RHaskell@concho.com >; Tavarez, Ike < Ike.Tavarez@tetratech.com >; Robert McNeill < RMcNeill@concho.com >; Dakota Neel < DNeel2@concho.com >; Aaron Lieb < ALieb@concho.com >

**Subject:** RE: COG - King Tut/Windward Work Plan Approval Request

Ms. Gonzales:

Based on the information provided, is the implication that all samples for 1RP-4485, 1RP-4696, 1RP-4772 are elevated due to cross contamination?

Irrespective of the depth to groundwater, permissible chloride levels is <= 600 mg/kg in 0-4 ft. of soil for remediation. Except for specific circumstances, 4 ft. of chloride-impacted soils must be removed with a minimal 20 mil liner at 4 ft. bgs to encapsulate elevated chloride levels in depth. This is standard NMOCD policy.

NMOCD has not yet decided to grant permission for removal and reuse of soil from 0-3 ft.

Olivia

**From:** Gonzales, Clair [mailto:Clair.Gonzales@tetratech.com]

Sent: Wednesday, October 4, 2017 7:12 AM

**To:** Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; Tucker, Shelly <<u>stucker@blm.gov</u>>; <u>hprice@blm.gov</u> **Cc:** Rebecca Haskell <<u>RHaskell@concho.com</u>>; Tavarez, Ike <<u>Ike.Tavarez@tetratech.com</u>>; Robert McNeill <<u>RMcNeill@concho.com</u>>; Dakota Neel <<u>DNeel2@concho.com</u>>; Aaron Lieb <<u>ALieb@concho.com</u>>

**Subject:** RE: COG - King Tut/Windward Work Plan Approval Request

Ms. Yu,

Referring to the bottom hole chloride concentration of 782 mg/kg at BH-8; as stated in the work plan, the slightly elevated concentration appears to be caused by cross contamination from the upper soils.

The area of BH-2 did show a chloride concentration of 1,110 mg/kg at 4'-5' below surface, while the areas of boreholes (BH-3 and BH-6) showed elevated concentrations of 7,960 mg/kg (4'-5') and 2,440 mg/kg (6'-7'), respectively. Based on the depth to groundwater in the area, which is between 325' and 350' below surface, the chloride concentration of 1,110 mg/kg detected at BH-2 is not significant and does not appear to be an environmental concern or imminent threat to groundwater.

The work plan proposes excavating the areas of BH-1, BH-3, BH-6, and BH-7 to between 3.0' and 4.0' below surface and capping the areas with a 40 mil liner. The

area of BH-8 will be excavated to 6.0' below surface, if accessible. Based on the data, the soils in the areas of BH-3 and BH-6 are to be removed (0-3.0') and reused for backfill. Soil samples will be collected every 50 yd<sup>3</sup> for chlorides by Method 300, as directed.

Thank you, **Clair Gonzales** 

Clair Gonzales | Geologist III

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

**Sent:** Tuesday, October 03, 2017 12:53 PM

**To:** Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>; Tucker, Shelly < <u>stucker@blm.gov</u>>; <u>hprice@blm.gov</u>

**Cc:** Rebecca Haskell < RHaskell@concho.com >; Tavarez, Ike < Ike.Tavarez@tetratech.com >; Robert McNeill < RMcNeill@concho.com >; Dakota Neel < DNeel2@concho.com >; Aaron Lieb < ALieb@concho.com >

**Subject:** RE: COG - King Tut/Windward Work Plan Approval Request

Dear Ms. Gonzales:

Please address these concerns regarding the workplan covering 1RP-4485, 1RP-4696, 1RP-4772:

- Vertical delineation for BH-8 is not considered complete at 25 ft. bgs. What is the proposed plan of action?
- Chloride content of the soil profile for BH-2 is similar to BH-3 and BH-6. Why is the proposed course of remedial activity different?
- Please be advised that the conventional remedial activity is 4 ft. excavation with a liner.
- If the proposed 0-3 ft. of soil at BH-3 and BH-6 is to be removed and reused for backfill is deemed permissible, NMOCD will request soils to be sampled every 50 yd3 with Method 300.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I Olivia.yu@state.nm.us 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water,

human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Gonzales, Clair [mailto:Clair.Gonzales@tetratech.com]

Sent: Thursday, September 21, 2017 1:03 PM

**To:** Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us>; Tucker, Shelly < stucker@blm.gov>; hprice@blm.gov **Cc:** Rebecca Haskell < RHaskell@concho.com>; Tavarez, Ike < Ike. Tavarez@tetratech.com>; Robert

McNeill < <a href="mailto:RMcNeill@concho.com">RMcNeill@concho.com</a>; Dakota Neel < <a href="mailto:DNeel2@concho.com">DNeel2@concho.com</a>; Aaron Lieb

<<u>ALieb@concho.com</u>>

Subject: COG - King Tut/Windward Work Plan Approval Request

# Good Afternoon,

Attached is the work plan for three releases (1RP-4485, 1RP-4696, and 1RP-4772) that occurred on the same location, located in Lea County, New Mexico. Once approved, COG will implement the proposed work plan. Let me know if you have any questions or concerns.

# Thank you

## Clair Gonzales

Clair Gonzales | Geologist III

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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# Chavira, Lisbeth

From: OCDOnline@state.nm.us

**Sent:** Friday, December 9, 2022 3:00 PM

**To:** Beauvais, Charles R

**Subject:** [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application,

Application ID: 165819

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

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nOY1721336457,

for the following reasons:

- Request for closure denied. Several sample locations are above the reclamation standard of 600 mg/kg for chloride in the upper 4 feet of the impacted area. If necessary, a deferral of the remediation and reclamation could be requested until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. A deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water.
- 1RP-4772 closed. Refer to incident #nOY1721336457 in all future communication.
- Please submit a complete report though the OCD Permitting website by 03/10/2023.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 165819. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional IM-BNF.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

# Chavira, Lisbeth

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

**Sent:** Friday, March 10, 2023 2:18 PM

**To:** Abbott, Sam

Cc: Llull, Christian; Chavira, Lisbeth; Beauvais, Charles R

Subject: RE: [EXTERNAL] Extension Request - Application ID 165819 (nOY1721336457)

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Sam,

Your extension request for nOY1721336457 is approved. The new due date is June 10, 2023.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

**Brittany Hall** • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Abbott, Sam <Sam.Abbott@tetratech.com>

Sent: Friday, March 10, 2023 11:35 AM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov>

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Chavira, Lisbeth < LISBETH.CHAVIRA@tetratech.com>; Beauvais,

Charles R < Charles.R.Beauvais@conocophillips.com>

Subject: [EXTERNAL] Extension Request - Application ID 165819 (nOY1721336457)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ms. Hall:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 10, 2023) to complete release delineation activities and associated reporting for the Windward Federal #001H Release site (nOY1721336457).

ConocoPhillips recently received a large volume of NMOCD determinations related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG") via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) process.

Given the difficulties inherent with available resource allocation for several projects with similar deadlines within a short period of time, this extension is required to safely complete the additional assessment. ConocoPhillips plans to conduct the additional assessment in the coming month however, and once the sampling data is collected, tabulated, and evaluated, a revised report will be submitted to the OCD.

Please let me know if you have any questions or concerns.

Sam

# Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

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f in Please consider the environment before printing. Read more



From: OCDOnline@state.nm.us

To: <u>Llull, Christian</u>

**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 222230

**Date:** Tuesday, June 6, 2023 2:53:05 PM

**CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments.

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1721336457, for the following reasons:

• 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. Submit a complete report throught the OCD Permitting website by 9/6/2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 222230.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Brittany Hall Projects Environmental Specialist - A 505-517-5333 Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: <u>Hall, Brittany, EMNRD</u>

To: Abbott, Sam

Cc: <u>Tavarez, Ike</u>; <u>Llull, Christian</u>; <u>Chavira, Lisbeth</u>

Subject: RE: [EXTERNAL] Extension Request - Application ID 222230 (nOY1721336457)

**Date:** Tuesday, September 12, 2023 2:26:06 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png

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Sam,

The extension for **nOY1721336457** is approved. New due date December 5, 2023.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Brittany Hall • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Tuesday, September 12, 2023 11:25 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

**Cc:** Tavarez, Ike <Ike.Tavarez@conocophillips.com>; Llull, Christian <Christian.Llull@tetratech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>

Subject: [EXTERNAL] Extension Request - Application ID 222230 (nOY1721336457)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ms. Hall,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until December 5, 2023) to complete the remediation and ensuing reporting for the Windward Federal #001H Release site (nOY1721336457).

The OCD rejected submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1721336457, for the following reasons:

 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. Submit a complete report throught the OCD Permitting website by 9/6/2023.

ConocoPhillips has safely completed additional assessment activities at the Site to evaluate the status of the identified open incident # NAB1905046526. Given the complexities of this site, including numerous surface and subsurface utilities within the release footprint, this incident is now being handled by the risk management and remediation group at ConocoPhillips. Based on the results of the additional assessment completed at the combined release area, ConocoPhillips will proceed with remediation of soils 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.

Please let me know if you have any questions or concerns.

Thank you, Sam

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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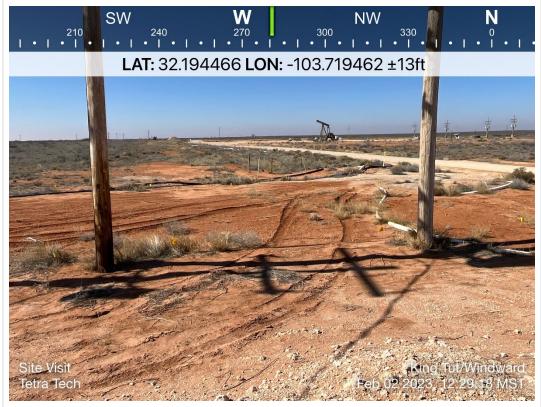
# APPENDIX D Photographic Documentation



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



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



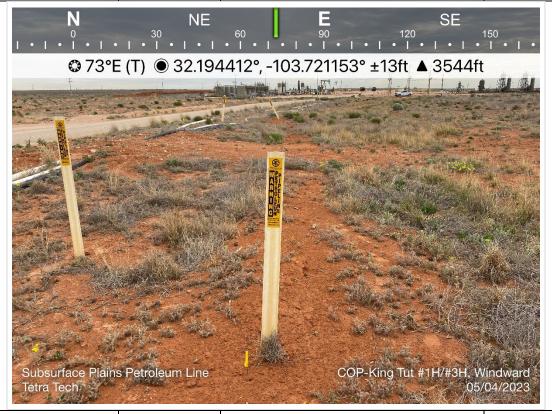
TETRA TECH, INC.	DESCRIPTION	View W of lease road and release extent from beneath overhead electrical lines.	3
PROJECT NO. 212C-MD-02999	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



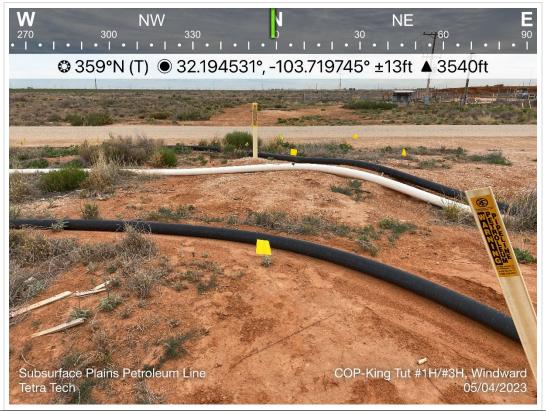
TETRA TECH, INC.	DESCRIPTION	View W towards lease road.	4
PROJECT NO. 212C-MD-02999	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



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



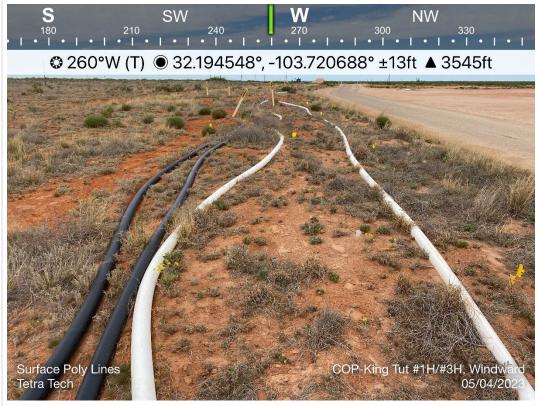
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast. View of surface lines. Vegetation present.	6
212C-MD-02999	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



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



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



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



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

# **APPENDIX E Laboratory Analytical Data**



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# 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

Analyzed By: JH

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

DIEX GOZID	mg/	, kg	Analyzea by. 311						
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	% 71.5-13	4						
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	Analyze	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keine



# 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

Analyzed By: JH

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



# 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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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

Analyzed By: 14

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-02999A 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 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02999A 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 9	71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02999A Tamara Oldaker

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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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	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
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 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

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Celey D. Keene



# 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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

	9/	9	7	7					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



# 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
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	% 71.5-13	4						
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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



# 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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.9	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02999A Tamara Oldaker

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



# 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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02999A Tamara Oldaker

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Celey D. Keene



### 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
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	% 71.5-13	4						
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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02999A 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 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/12/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-02999A Tamara Oldaker

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

	9,	9	7	7: : : :					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

	9,	9	7	7: : : :					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### 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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

	9/	9	7	= 7					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

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Celey D. Keene



### 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

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Celey D. Keene



### 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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	a by. 1-15					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey & Kreene



### 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### 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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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

Analyzed By: MS

Project Location: LEA COUNTY, NEW MEXICO

mg/kg

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

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	a by. 1-15					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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Celey D. Keene



### 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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-02999A Sample Received By:

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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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

Analyzed By: MC

Project Location: LEA COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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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: Sampling Type: Soil 09/12/2023

Project Name: KING TUT #001H RELEASE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-02999A

Project Location: LEA COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

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

### CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Sam Abbott Address: 8911 Capital o Texas City: Austin	as Hwy, Su	State: TX Zip:	"					P.O. #: Compa	P.O. #: Company: Tetra Address: EMAII	P.O. #: Company: Tetra Tech Attn: Sam Abbott						ANAL	ANALYSIS	ANALYSIS REI	ANALYSIS REQUES	ANALYSIS REQUEST	ANALYSIS REQUEST
Phone #:	(512)565-0190 Fax #:						_	Addr	Address: EMAIL	MAIL											
Project #:	212C-MD-02999A Projec	Project Owner:		Cor	1000]	ConocoPhillips		City:													
Project Name: K	Project Name: King Tut #001H Release						"	State:	**	Zip:					-B	-B	·B	-B	·B	-B	-B
Project Location	Project Location: Lea County, New Mexico						- 77	Phone #:	1e #:						CI-	CI-	CI-	CI-	CI-	CI	CI
Sampler Name:	Sampler Name: Colton Bickerstaff						-	Fax #:	7.						500	500	500	500	5000	500	5000
FOR LAB USE ONLY				П	×	MATRIX	11	R	PRESERV.		AM	SAMPLING	SAMPLING		3	3	3	3	3	3	3
Lab I.D.		)OMP.	S	ER	?				-				15M	_	021E	021E	021E	021E	021E	021E	021E
728.452H	Sample I.D.	(G)RAB OR (C)	# CONTAINERS	GROUNDWATE	WASTEWATER SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL <	DATE		TIME		TIME	TPH 801	TPH 801	TPH 801	TPH 801	TPH 801	TPH 801	TPH 801
	AH-23-12 (0-1')	G	_		$\overline{}$		_		×	$\dashv$	_		X		X	X	X	X	X	X	X
		G	-		×		_	$\dashv$	×	9/7/2023	_		×	XX		×	×	×	×	×	×
·		G	-		X		Ц	Н	X	9/7/2023	-		X	XX		X	X	X	X	X	X
4		G	1		X			_	X	9/7/2023	_		X.	X. X		X	X	X	X	X	X
S	AH-23-12 (4'-5')	G	1		X			Н	X	9/7/2023	Н		X	XX		X	X	X	X	X	X
2	AH-23-13 (0-1')	G	1		X				X	9/7/2023	_		X	XX		X	X	X	X	X	X
1	AH-23-13 (1'-2')	G	1		X			_	X	9/7/2023			X	XX		X	X	X	X	X	X
8	AH-23-13 (2'-3')	G	-		×	Ĥ	L	$\vdash$	×	9/7/2023	-		×	X	$\vdash$	×	×	×	×	×	XX
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0)	AH-23-13 (4'-5')	G	_		×			2	X	9/7/2023	_					X X X	X X X	X X X	X X X	X X X	X X X
PLEASE NOTE: Liability and event shall Cardinal be liable affiliates or successors aris	FLESE KOTE. Liabily and branger, Cardon's liability and obertic sectioner mendy for any fallowing whether based in contract or that the Intent to the amount pool by the cleanfor the "ambigues, As event shall Cardonia by based to be provided and contract or the provided and the shall be shal	or any claim arising whether based in thout limitation, business interrup eunder by Cardinal, regardless o	otions, k	er such o	half be lin b, or loss laim is b	of profits sed upor	incurred n any of	t paid by d by clie the abo	the client for ent, its subs we stated re	nt for the analysics. All claims subsidiaries, ed reasons or otherwise.						including those for negagence and any other cause whatsoever	including those for negagence and any other cause whatsoever	including those for negagence and any other cause whatsoever	including those for negagence and any other cause whatsoever	including those for negagence and any other cause whatsoever	
Relinquished By	Relinquished By: Colton Bickerstaff	Date: 9/8/23 Rec	Received By	d By					1	1		Verbal Result	Werbal Result: □ \	Werbal Result: ☐ Yes ☐	Werbal Result: ☐ Yes ☐ No	Werbal Result: ☐ Yes ☐ No	Werbal Result: ☐ Yes ☐ No Add'I i	Werbal Result: ☐ Yes ☐ No Add'I Phone :	Werbal Result: ☐ Yes ☐ No Add'I Phone #:	Werbal Result: ☐ Yes ☐ No Add'I Phone #:	Werbal Result: ☐ Yes ☐ No Add'I Phone #:
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Relinquished By:	ż	Date: Rec	eive	Received By:				(		(		REMARKS:	REMARKS:	REMARKS:	REMARKS:	REMARKS:	REMARKS:	REMARKS:	REMARKS:	REMARKS:	REMARKS:
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1071											ľ										

Page 48 of 52



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech	ra Tech							-			BILL TO				AN	ANALYSIS REQUEST	IS RE	QUES	Ä			,
Project Manager: Sam Abbott	m Abbott							P	P.O. #:						-	-	_	1	$\dashv$			
Address: 8911 Capita	Address: 8911 Capital o Texas Hwy, Suite 2310	110						0	ompa	any: T	Company: Tetra Tech				_	_						
City: Austin		State: TX	Zip:					A	ttn: S	Attn: Sam Abbott	bbott	ė			_	_						
Phone #: (51	(512)565-0190 Fax #:							A	ddres	Address: EMAIL	MAIL				_	_		_				
Project #: 212	212C-MD-02999A Pro	Project Owner:			Con	ConocoPhillips	hilli:		City:							_						
Project Name: King Tut #001H Release									State:		Zip:				В							_
roject Location: Lea	Project Location: Lea County, New Mexico							P	Phone #:	#					CI-							_
Sampler Name: Colton Bickerstaff	on Bickerstaff							77	Fax #:						000	_						_
OR LAB USE ONLY				$\perp$	H	MA	MATRIX	┨	PRE	PRESERV.	SAMPLING	LING		_	45							
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the street	Sample I.D.		G)RAB OR (C)C	CONTAINERS	ROUNDWATER	OIL	L LUDGE	THER:	CID/BASE:	E / COOL THER :			PH 801	BTEX 80	Chloride						9	
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15 AF	AH-23-14 (4'-5')		G	1	_	X		_		X	9/7/2023		X	X	X			_				
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PLEASE NOTE: Liability and Damages, event shall Cardinal be liable for incid affiliates or successors arising out of	REASER HOTE. Liabilly and Changes, Codright hability and elerits excluse mendy for any diminimizing whiter branch context or to that be included on amount paid by the electric the sampless. All exert shall clarified be belief to included on consequential dampies, including valual inhalation, belief sensitive interruptions, less or up, or best of plants becurred by the facilities of the content	remedy for any claim arising whether luding without limitation, business vices hereunder by Cardinal, regar	interrupti indess of	contract o ons, loss whether s	act or tort, shall be lin loss of use, or loss her such claim is ba	ill be limits or loss of m is base	profits in bd upon	amount pr nourred I any of th	aid by the by client, e above	by the client for the client, its subsidiar bove stated reaso	he analyses. All claims diaries. ssons or otherwise.	including those for	negligence	and any other cause	ausé whatsoeve	r shall be de	erned waive	d unless ma	ide in writing	g and received	by Cardinal w.	Il be deemed waiwed unless made in writing and received by Cardinal within 30 days after
Relinquished By: Colton Bickerstaff	Iton Bickerstaff	Date: 9/8/23	Rece	Received By	B				1	1		Verbal Result:	☐ Yes	es 🗆 No	lo	Add	Add'I Phone #:	*	9	5		
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Relinquished By:		Date: Time:	Rece	Received By:	By:		·	(				REMARKS:										
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	*	Observed Temp. °C Corrected Temp. °C	0.8		San	Sample Condition Cool Intact	act	9		CHEC [In	CHECKED BY: (Initials)	Turnaround Time: Stan Rush: N/A, Standard TAT	Standard	□ <b>*</b>	Bacteria (only) Sample Cr. Altion Cool Infact Observed Temp. C	ample Cr. dition erved Temp. °C	c to					
						N C	No		2	bi	ŷ	Thermometer ID	1		#140 TO: 9/8/23	Ci	No No		Corrected Temp.	emp. °C		



101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		(0.0) 000 2020 150 (0.0) 000 2710	1					4		1	,	-													
Project Manager: Sam Abbott	Sam Abbott								P.O. #:	#	- I								7		_  :				
Address: 8911 Ca	Address: 8911 Capital o Texas Hwy, Suite 2310	te 2310							Com	pan	y: T	Company: Tetra Tech								_					
City: Austin		State: TX	Zip:						Attn	Sal	m At	Attn: Sam Abbott								_	_				
Phone #:	(512)565-0190	Fax #:							Addr	ess	Address: EMAIL	AIL									_				
Project #:	212C-MD-02999A	Project Owner:			00	ConocoPhillips			City:																
Project Name: Kir	Project Name: King Tut #001H Release							_	State:	:8		Zip:				В									
roject Location:	Project Location: Lea County, New Mexico	ico						_	Phone #:	ne #	"					CI-								111	
Sampler Name: Colton Bickerstaff	olton Bickerstaff							_	Fax #:	.#						000									
OR LAB USE ONLY						MΑ	MATRIX		PF	PRESERV.	RV.	SAMPLING	LING			45				_					
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	Sample I.D.	I.D.	RAB OR (C)	ONTAINER	DUNDWATE	STEWATER L	IDOF.	IDGE	HER : D/BASE:	/ COOL	HER:			PH 801	ΓEX 80	nloride		11.							
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29	39 AH-23-17 (3'-4')		G	1		X				X		9/7/2023		×	X	X									
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PLEASE NOTE: Liability and Dam event shall Cardinal be liable for affiliates or successors arising (	REDER FORE: Liabity and Damager. Curriorith lability and directs excluse monely for any damn watering whether beared in contrast of the, said the Intends to the amount paid by the detect to the additional to the amount paid by the detect to the additional to the amount paid by the detect to the additional to the label to include the consequential dismanse, including valuable inhabition inhabition to the care of the contrast to	sive remedy for any claim arising wheth including without limitation, busines services hereunder by Cardinal, reg	er based in s interrupt ardless of	tions, los f whether	s of use	half be limi or loss o aim is bas	f profits i	amount incurred any of t	by clie	the clie ent, its : we state	nt for the subsidia ed reas	e arfalyses. All claim aries, ons or otherwise.	s. Excluding those for negligence and any other cause whatsoever sh	negligence	and any othe	r cause wh	atsoever sh	all be deen	and waives	unless	made in	witing ar	nd received	by Cardina	all be deemed valved unless made in writing and received by Cardinal within 30 days after compiction of the
elinquished By:	Relinquished By: Colton Bickerstaff	Date: 9/8/23	Rec	Received By	Se Contraction		The same		The	(M)	de		Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provide Emai	☐ Yes emailed.	d. Pleas	□ No ase provio	le Email	Add'l addre	Add'l Phone #: address: Sam.	m.Abt	oott@	tetrate	Add'l Phone #:    address: Sam.Abbott@tetratech.com	7,	
Relinquished By:		Date:	Rec	Received By:	By:	•			(			(	REMARKS:												
		Time:																							
Delivered By: (Circle Cile) Sampler - UPS - Bus - Other:	s - Other	Observed Temp. °C Corrected Temp. °C	8.0		Sa Co	Sample Condition Cool Mact	Mact	) s		Ω	(Init	CHECKED BY: (Initials)	Turnaround Time: Stan Rush: N/A, Standard TAT	Standard d TAT	2	Bacteria ol Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. "C	le Conditio	., ,				×		
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Ol	Kelinquished By:		inquished By:	t shall Cardinal be liable ites or successors arisin	PLEASE NOTE: Liability and Da	38	22	37	34	33	34	C	25	31	Lab I.D. 4234870	OR LABUSE ONLY	Sampler Name:	roject Location	Project Name: K	Project #:	Phone #:	City: Austin	Address: 8911 C	roject Manager	Company Name	
le One) us - Other:			Colton Bickerstaff	for incidental or consequental dama g out of or related to the performance	AH-23-19 (4'-5')	AH-23-19 (3'-4")	AH-23-19 (2'-3')	AH-23-19 (1'-2')	AH-23-19 (0-1')	AH-23-18 (4'-5')	AH-23-18 (3'-4')	AH-23-18 (2'-3')	AH-23-18 (1'-2')	-			Colton Bickerstaff	: Lea County, New M	ing Tut #001H Releas	212C-MD-02999A	(512)565-0190		apital o Texas Hwy,	: Sam Abbott	: Tetra Tech	(575) 39
Observed Temp. °C Corrected Temp. °C	Time:	S26Quil	Date: 9/8/23	ges, including without limitation, busing of services hereunder by Cardinal,	sociusive remedy for any claim, arisinn wê		:								e I.D.			exico	se .	Project Owner:	Fax #:	State:	Suite 2310			(575) 393-2326 FAX (575) 393-2476
8.0	Receiv	P	Receiv	ness interruptions regardless of whe	G 1	G 1	G 1	G 1	G 1	G 1	G 1	G ,1	G 1	G 1	(G)RAB OR (C)OMP.							TX Zip:				93-2476
Samp	red By:	ille	ed By	, loss of use, or kether such claim is	tract of bot shall b								_		GROUNDWATER WASTEWATER					Cono						
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CHE	4	9	7	ed by client, its sub of the above stated a	1 54	X	X	×	×	×	X	X	X	X		PRESER	Fax #:	Phone #:	State:	City:	Address:	Attn: Sam	Company	P.O. #:		
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

### **CARDINAL** Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Caudonit's habits, and cleared the Candonite habits for incidental driven expensation of consequential consequential states or successors aiming out do or related to the performance of the consequential states of the c	CESSER NOTE: Liability and Designs. Contracts liability and ob- west shall Cardinal be liable for incidental of consequental of fisialise or successors arising out of or related to the perfor- fering the contract of the performance of the contract of the performance of the contract of the performance of the contract	PLEASE NOTE: Lability port Developes. Constraint I habits, and clared event shall Cardinal be labels for incidental dir consequential durabilishes or successors arising out of or related to the performal diffusion or successors arising out of or related to the performance of the consequence of the	Presse HOTE: Liability and Demagns. Cardwal's tabolits, and de- pendent shall Considerable tabels for incidental de consequential and and an expension of the president of the period of the reputation of the period of the perio	inci	PLEASE NOTE: Liability and Damages. Cardinal's liability and ch				:		45 AH-23-20 (4'-5')	44 AH-23-20 (3'-4')	<b>43</b> AH-23,20 (2'-3')	42 AH-23-20 (1'-2')	4/ AH-23-20 (0-1')	Sam	Lab I.D.	FOR LAB USE ONLY	Sampler Name: Colton Bickerstaff	Project Location: Lea County, New Mexico	Project Name: King Tut #001H Release	Project #: 212C-MD-02999A	Phone #: (512)565-0190	City: Austin	Address: 8911 Capital o Texas Hwy, Suite 2310	Project Manager: Sam Abbott	Company Name: Tetra Tech	101 Eas (575) :
5	100		Times 27	Date: 9/8/23	mance of services hereunder by Cardinal, regan	. Cardinat's liability, and client's exclusive remedy for any claim arising whether							)	)	)	Sample I.D.				Mexico	ase	Project Owner:	Fax #:	State: TX	, Suite 2310			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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CHECK		Alow		1	bove stated reaso	by the client for the flient, its subsidiar	_		÷	+	×	×	×	×	×	ICE / COOL OTHER :		PRESERV.	#	Phone #:			Address: EMAIL	Attn: Sam Abbott	Company: Tetra Tech	#	BI	
СНЕСКЕВ ВУ:	\	June 1		1	ns or otherwise.	be limited to the amount paid by the client for the analyses. All claims loss of profits incurred by client, its subsidiaries.					9/7/2023	9/7/2023	9/7/2023	9/7/2023	9/7/2023	DATE		SAMPLING			Zip:		Į.	ott	ra Tech		BILL TO	
Turnaroun', ime:		REMARKS:	All Results are emailed. Please provide Email	Verbal Result:		ms including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardmai vittinn su days are:										TIME		LING										
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			address: Sam.Abbott@tetratech.com			ng and received				H	$\dagger$	+	T	T	$\dagger$													
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Page 52 of 52

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

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

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

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

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

CONDITIONS

Action 290143

### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	290143
	Action Type:
	[C-141] Release Corrective Action (C-141)

### 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.	1/17/2024
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.	1/17/2024
bhall	Submit a complete report through the OCD Permitting website by 4/17/2023.	1/17/2024