



April 26, 2022

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

**Re: Release Characterization and Remediation Work Plan
ConocoPhillips
MCA Battery 2 – Trunkline Release
MCA Battery 2 – Flare Stack Release
Unit Letter D, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico
Incident ID# nAPP2131935400**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess multiple releases that occurred as the result of an equipment malfunction at the Maljamar Cooperative Agreement (MCA) Battery 2. The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). There were two releases which occurred on the same day, with intersecting footprints. The approximate release point for the trunkline occurred at coordinates 32.812345°, -103.777239°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the releases were discovered on November 1, 2021. Response to a release which occurred the day prior (10.31.21, NAPP2131933625) triggered these incidents. The C-141 documentation reports that the releases occurred due to an inlet valve on the south separator malfunctioning after Emergency Shutdown (ESD). The valve caused the trunkline to fail due to pressure build-up. The flare stack release occurred concurrent with the trunkline release, after the flare scrubber (two-phase separator) failed to function properly as a result of the ESD. The trunkline release point is located along the southern edge of the MCA Battery 2 pad. Approximately 69 barrels (bbls) of produced water and 17 bbls of crude oil were reported released. All freestanding fluids remaining after the release were removed by a vacuum truck. The NMOCD received the initial C-141 on November 15, 2021, and subsequently assigned the release the Incident ID nAPP2131935400. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are eight (8) water wells located within an 800-meter (approximately ½-mile) radius of the release location. The average depth to groundwater is 85 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech

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REGULATORY FRAMEWORK

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

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

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

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

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

REGULATORY CORRESPONDENCE

On Thursday, March 3, 2022, Tetra Tech, on behalf of ConocoPhillips, requested a 60-day extension (for a new deadline of May 1, 2022) to complete the Site Characterization for the nAPP2131935400 release. The extension request was approved via email by Robert Hamlet on Thursday, March 3, 2022.

On Friday, February 4, 2022, a Request for Approval for delineation and initial remediation at the release site was sent to the Bureau of Land Management (BLM). The remedial action work was approved via email by Shelly Tucker of the BLM the same day. Documentation of associated regulatory correspondence is included in Appendix C.

INITIAL RESPONSE ACTIVITIES

In accordance with 19.15.29.8.B.(4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area footprint in 2022. The release extents consisted of approximately 3,500 square feet of oil-gas lease pad and roughly 22,000 square feet of pastureland.

Initial response remedial actions were performed at the release site between February and March 2022. Visually stained areas were scraped to removed impacted materials. Both on-pad and pastureland areas were scraped to approximately 3 to 6 inches below ground surface, resulting in approximately 320 cubic yards of contaminated soil being removed and sent to R360 Halfway Facility in Hobbs, New Mexico. Waste manifests can be found in Appendix D. The initial response area is indicated in Figure 3.

SITE ASSESSMENT SUMMARY

During the initial response activity timeframe, Tetra Tech personnel were on-Site to conduct soil sampling to delineate the release extent. A total of thirty-two (32) boreholes were installed using a hand auger to achieve vertical and horizontal delineation of the trunkline release between February 18 and March 3, 2022.

Seven (7) boreholes (AH-T-1 through AH-T-7) were installed inside the reported trunkline release extent to depths ranging from 6 to 8 feet bgs to vertically delineate the release. Nine (9) boreholes (AH-T-8 through AH-T-16) were installed along the perimeter of the release extent to a depth of 2 feet bgs to achieve horizontal delineation of the trunkline release.

Five (5) boreholes (AH-22-1 through AH-22-5) were installed in and around an adjacent release which occurred the day before (NAPP2131933625) and were used as horizontal delineation of this release. Eleven (11) boreholes (AH-1 through AH-11) were installed in and around the flare stack release extent. Collected samples were field screened for salinity using an ExTech EC400 ExStik and for hydrocarbons using a photoionization detector (PID) to measure volatile organics. Photographic documentation of Site conditions at the time of the assessment is presented in Appendix E. Boring locations are presented in Figure 4.

A total of eight-five (85) samples were collected from the thirty-two (32) borings and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 4500.0. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix F.

SUMMARY OF SAMPLING RESULTS

Results from the February and March soil sampling events are summarized in Table 1. Analytical results associated with borings AH-1, AH-5, AH-8, AH-T-1 through AH-T-7, and AH-T-11 exceeded the reclamation requirements for chloride (600 mg/kg) and/or TPH (100 mg/kg) in soils to depths up to 4 feet below surrounding grade. All other analytical results were below reclamation requirements and Site RRALs. After review of analytical results from the sampling event, both horizontal and vertical delineation was achieved during the February and March 2022 assessment activities. Photographic documentation from the site assessment is included in Appendix E.

REMEDIATION WORK PLAN

Based on the analytical results from the assessment, ConocoPhillips proposes to remove the impacted material within the release extent as shown in Figure 5. Impacted soils will be excavated using methods applicable for the Site. There are numerous energized subsurface, surface, and overhead lines in the release footprints. Where applicable, heavy equipment (backhoes and trackhoes) will be used to excavate to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the reclamation requirements/Site RRALs. Heavy equipment will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be dug by hand to the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once analytical results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 3,570 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Twenty-nine (29) confirmation floor samples and fifty-six (56) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 25,940 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to an accredited laboratory for analysis

of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 4500.0/300.0). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

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

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

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Christian M. Llull, P.G.
Program Manager

cc:
Ms. Jenni Fortunato, RMR – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Response
- Figure 4 – Site Assessment Map
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Alternative Confirmation Sampling Plan

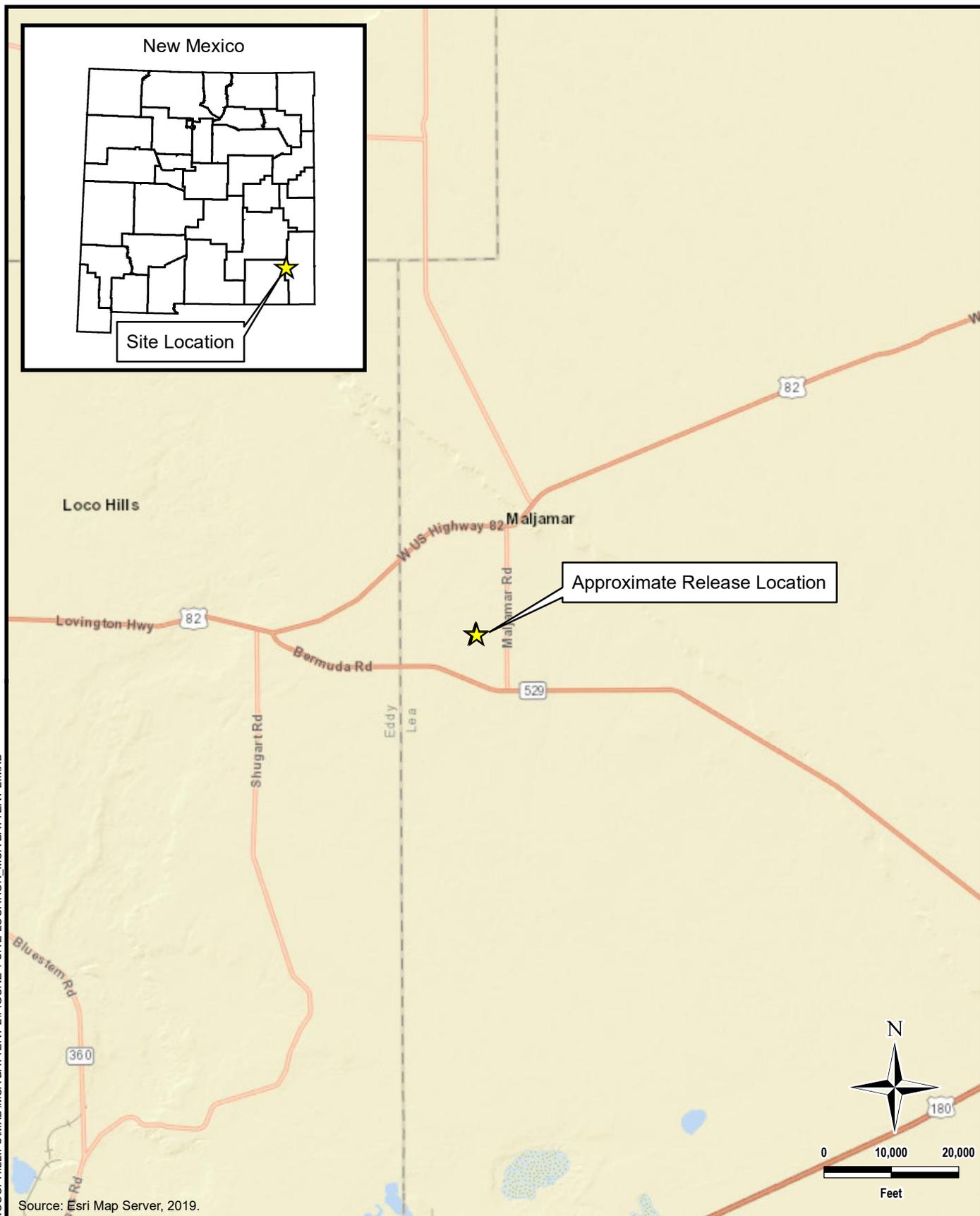
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Regulatory Correspondence
- Appendix D – Waste Manifests
- Appendix E – Photographic Documentation
- Appendix F – Laboratory Analytical Data
- Appendix G – NMSLO Seed Mixture Details

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA BATTERY 2\FIGURE 1 SITE LOCATION_MCA BATTERY 2.MXD

Source: Esri Map Server, 2019.



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(32.811944°, -103.777222°)
LEA COUNTY, NEW MEXICO

**MCA BATTERY 2 - TRUNKLINE RELEASE
SITE LOCATION MAP**

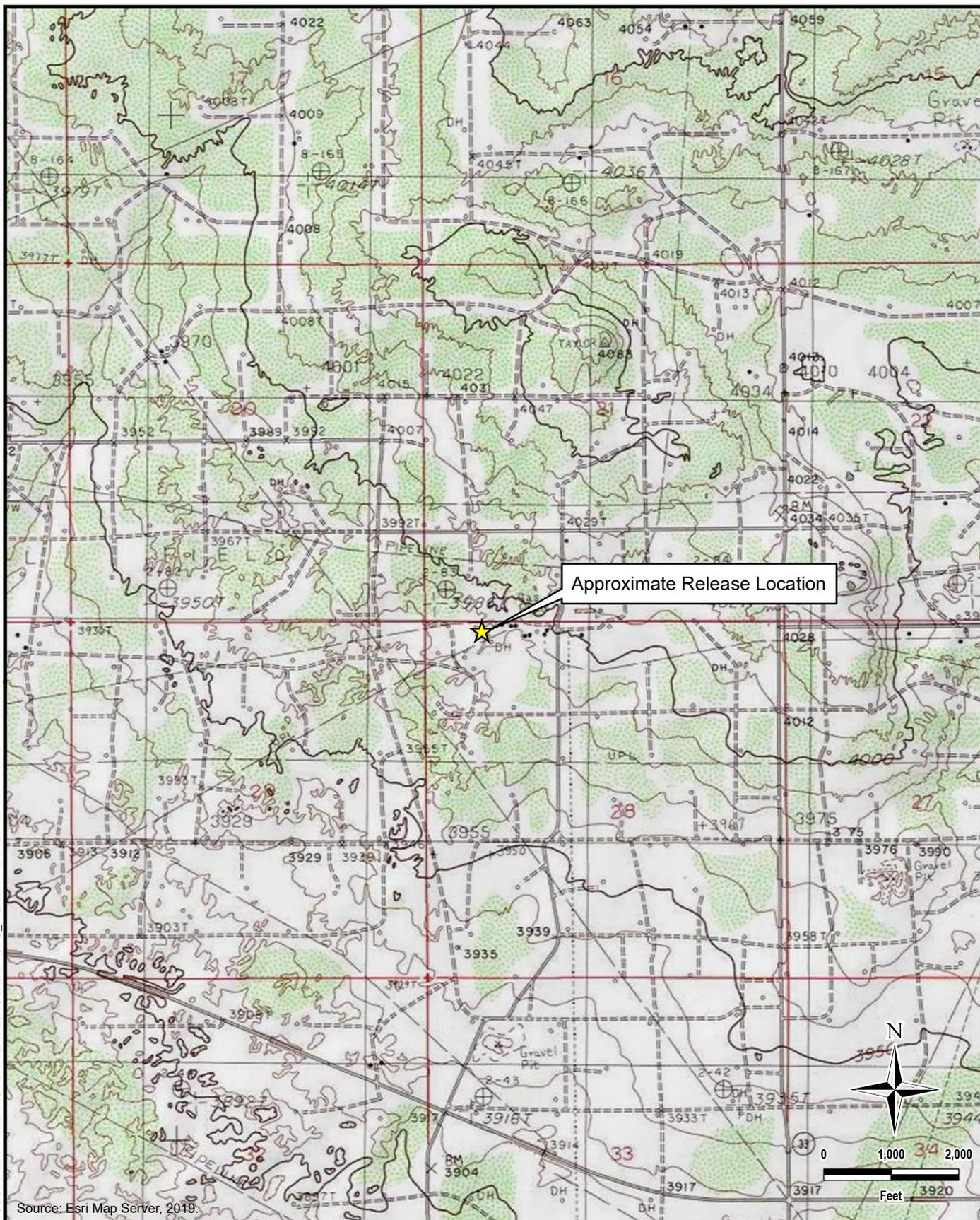
PROJECT NO.: 212C-MD-02689

DATE: APRIL 12, 2022

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Figure No.

1



Source: Esri Map Server, 2019.

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**MCA BATTERY 2 - TRUNKLINE RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02689

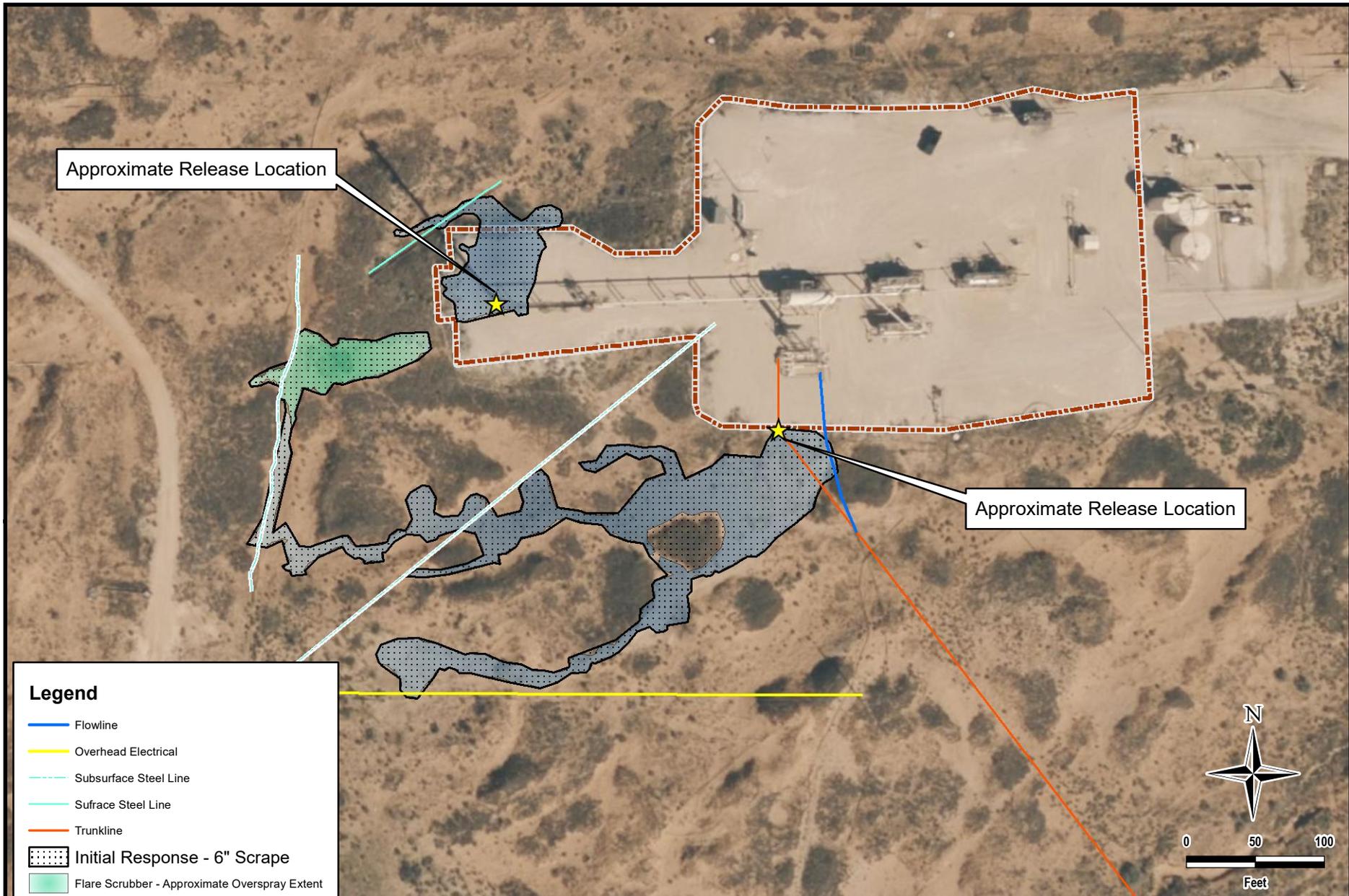
DATE: APRIL 18, 2022

DESIGNED BY: AAM

Figure No.

2

DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA BATTERY 2\FIGURE 3 RELEASE_MCA BATTERY 2.MXD



Legend

- Flowline
- Overhead Electrical
- - - Subsurface Steel Line
- Surface Steel Line
- Trunkline
- Initial Response - 6" Scrape
- Flare Scrubber - Approximate Overspray Extent
- Flare Scrubber - Approximate Release Extent
- Trunkline - Approximate Release Extent
- Approximate Pad Extent

BGS - Below Ground Surface
Source: Bing Image Server, 2019.



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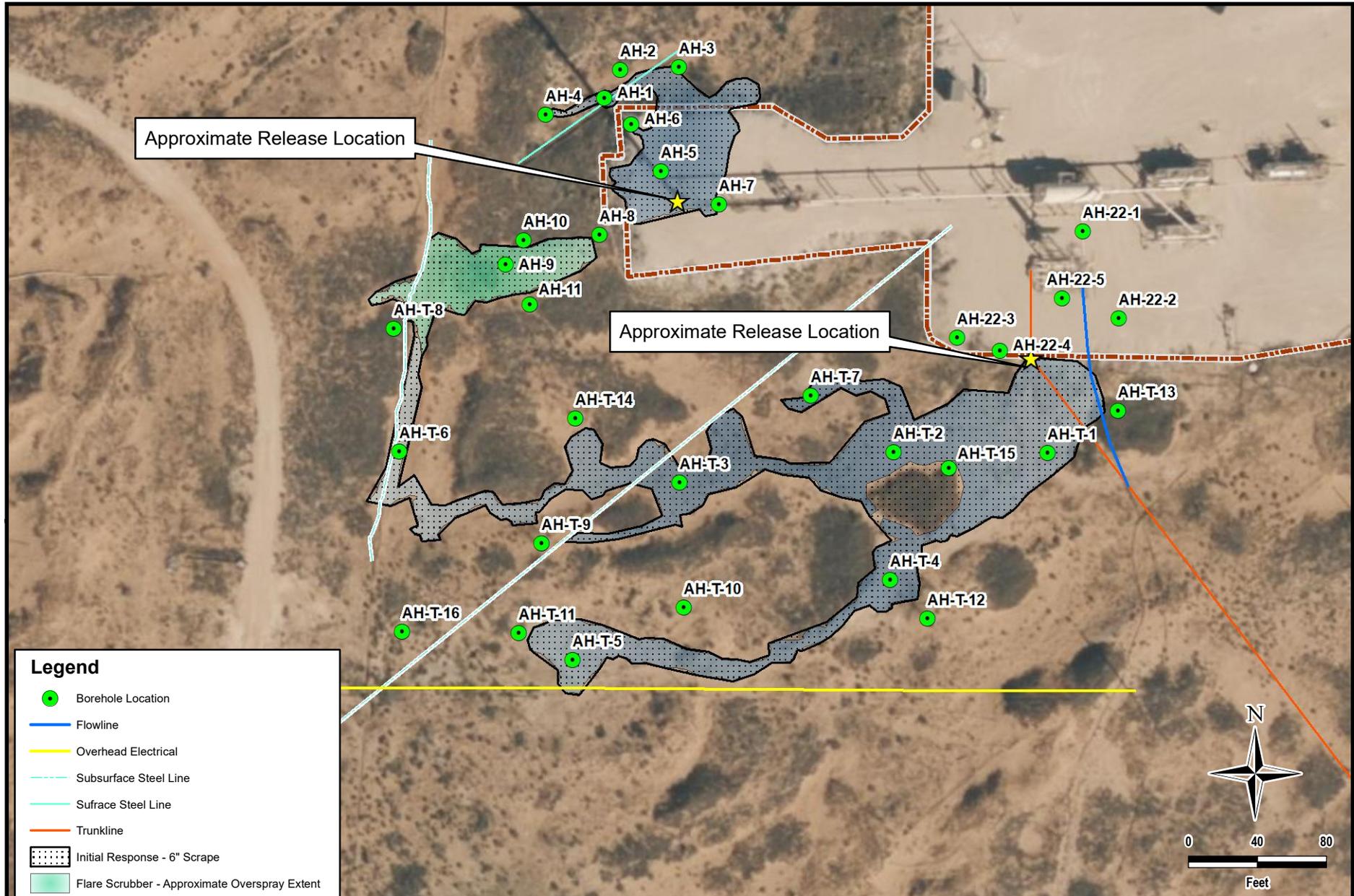
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**MCA BATTERY 2 - TRUNKLINE RELEASE
APPROXIMATE RELEASE EXTENTS AND INITIAL RESPONSE**

PROJECT NO.:	212C-MD-02689
DATE:	APRIL 18, 2022
DESIGNED BY:	AAM
Figure No.	3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA BATTERY 2\FIGURE 4 SOIL_MCA BATTERY 2.MXD

Legend

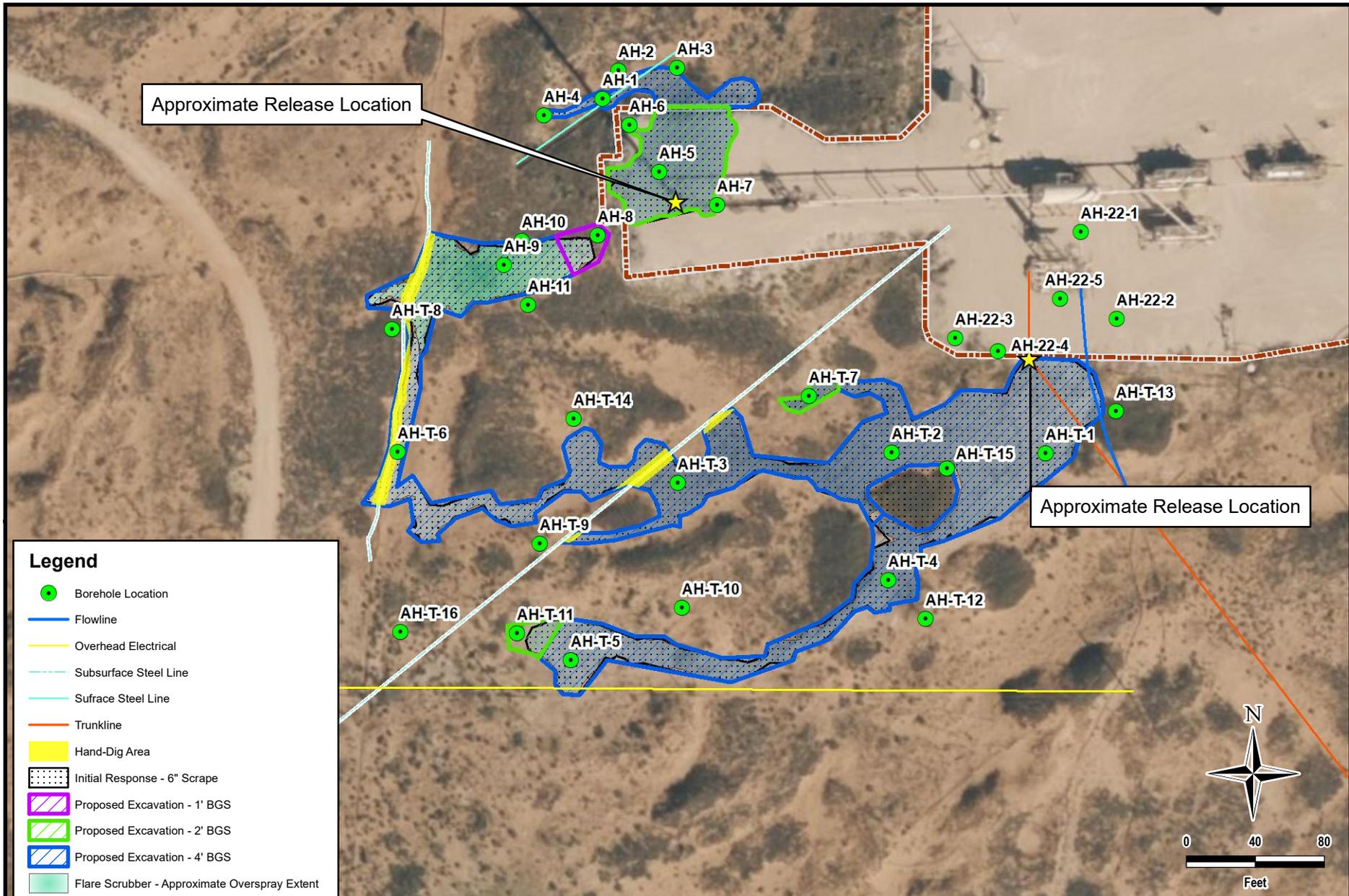
- Borehole Location
- Flowline
- Overhead Electrical
- - - Subsurface Steel Line
- Surface Steel Line
- Trunkline
- Initial Response - 6" Scrape
- Flare Scrubber - Approximate Overspray Extent
- Flare Scrubber - Approximate Release Extent
- Trunkline - Approximate Release Extent
- Approximate Pad Extent

BGS - Below Ground Surface
Source: Bing Image Server, 2019.



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	<p>Figure No. 4</p>	

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Legend

- Borehole Location
- Flowline
- Overhead Electrical
- Subsurface Steel Line
- Surface Steel Line
- Trunkline
- Hand-Dig Area
- Initial Response - 6" Scrape
- Proposed Excavation - 1' BGS
- Proposed Excavation - 2' BGS
- Proposed Excavation - 4' BGS
- Flare Scrubber - Approximate Overspray Extent
- Flare Scrubber - Approximate Release Extent
- Trunkline - Approximate Release Extent
- Approximate Pad Extent

BGS - Below Ground Surface
Source: Bing Image Server, 2019.

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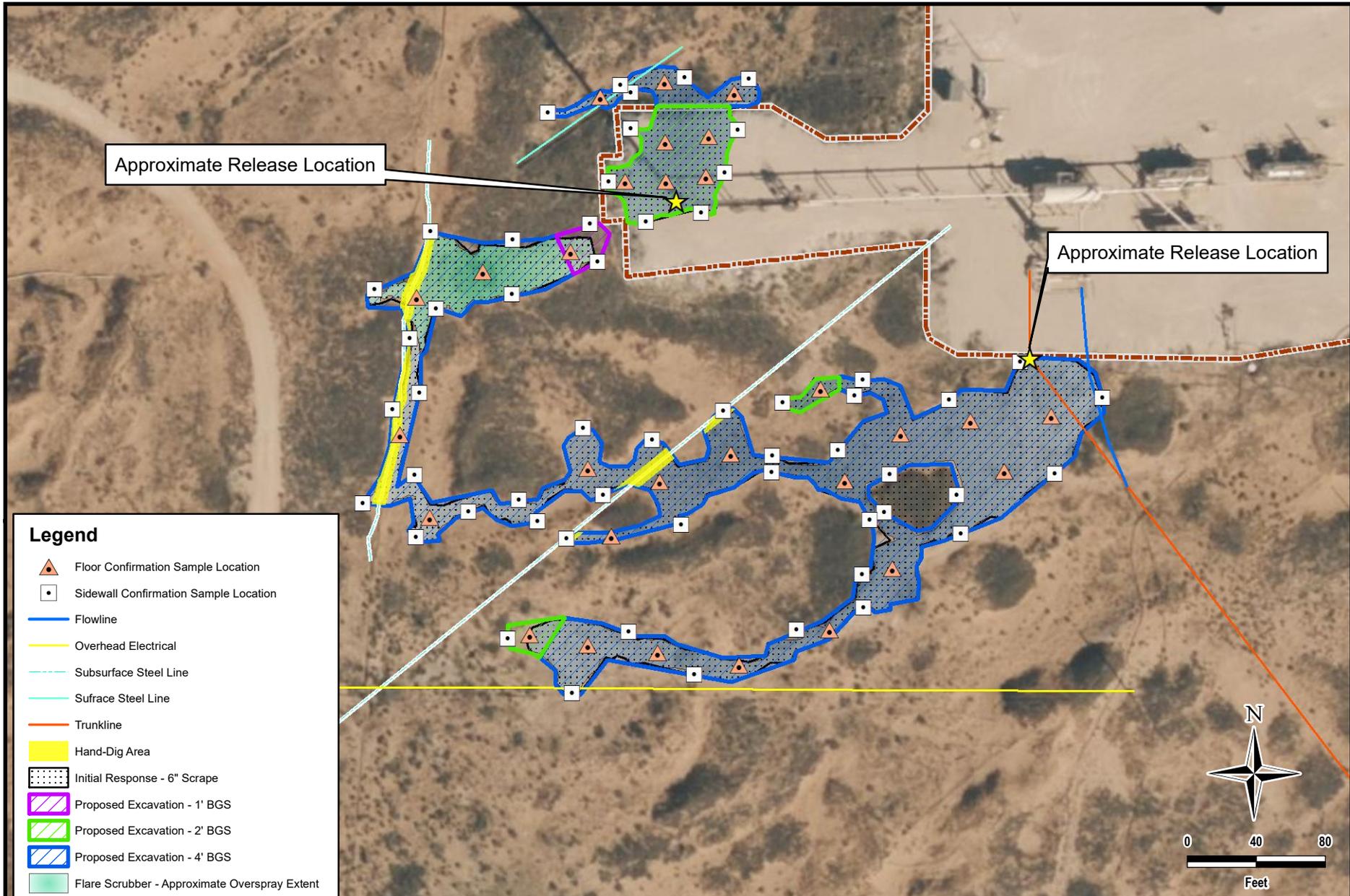
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**MCA BATTERY 2 - TRUNKLINE RELEASE
PROPOSED REMEDIATION EXTENTS**

PROJECT NO.:	212C-MD-02689
DATE:	APRIL 19, 2022
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Figure No.	5

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Legend

- Floor Confirmation Sample Location
- Sidewall Confirmation Sample Location
- Flowline
- Overhead Electrical
- Subsurface Steel Line
- Surface Steel Line
- Trunkline
- Hand-Dig Area
- Initial Response - 6" Scrape
- Proposed Excavation - 1' BGS
- Proposed Excavation - 2' BGS
- Proposed Excavation - 4' BGS
- Flare Scrubber - Approximate Overspray Extent
- Flare Scrubber - Approximate Release Extent
- Trunkline - Approximate Release Extent
- Approximate Pad Extent

BGS - Below Ground Surface
Source: Bing Image Server, 2019.

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**MCA BATTERY 2 - TRUNKLINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN**

PROJECT NO.:	212C-MD-02689
DATE:	APRIL 19, 2022
DESIGNED BY:	AAM
Figure No.	6

TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 SOIL ASSESSMENT - NAPP2131935400
 CONOCOPHILLIPS
 MCA BATTERY 2 - "14" TRUNKLINE RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²								TPH ³								
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-1	3/1/2022	0-1	39.0	-	64.0		< 0.200		2.28		10.8		22.0		35.1		477		2420		442		3,339
		2-3	30.6	-	64.0		< 0.050		0.195		0.772		1.40		2.37		136		1490		345		1,971
		3-4	116	-	96.0		< 0.050		< 0.050		0.090		0.199		< 0.300		15.6		260		29.8		305
		5-6	342	-	192		< 0.050		< 0.050		0.069		0.228		< 0.300		23.2		357		49.7		430
		7-8	366	-	208		< 0.050		< 0.050		0.190		0.638		0.828		43.7		502		85.7		631
	3/9/2022	8-9		-	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		11-12		-	544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-2	2/28/2022	0-1	31.4	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	28.9	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-3	2/28/2022	0-1	29.7	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	10.1	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		47.0		< 10.0		47.0
AH-4	2/28/2022	0-1	19.5	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	27.0	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-5	3/1/2022	0-1	620	-	608		< 0.050		< 0.050		0.775		3.03		3.78		219		5020		2420		7,659
		2-3	371	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		368		311		679
		3-4	236	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		61		22.3		83.3
AH-6	2/28/2022	0-1	116	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	14.9	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-7	2/28/2022	0-1	106	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	138	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-8	2/28/2022	0-1	833	-	1,820		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	129	-	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-9	3/2/2022	0-1	-	-	1,390		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		674		323		997
		2-3	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		13.6		< 10.0		13.6
		3-4	-	-	1,180		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6	-	-	2,280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		24.7		< 10.0		24.7
		7-8	-	-	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-10	3/1/2022	0-1	173	-	336		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-11	3/1/2022	0-1	263	-	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - NAPP2131935400
CONOCOPHILLIPS
MCA BATTERY 2 - "14" TRUNKLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²								TPH ³								
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-T-1	3/2/2022	0.5-1.5		-	2,720		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		14.7		215		30.9		261
		2-3		-	2,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4		-	3,280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		24.1		< 10.0		24.1
		5-6		-	4,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		56.5		< 10.0		56.5
	3/9/2022	7-8		-	7,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10		-	5,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-2	3/3/2022	0-1	-	-	2,120		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	-	-	2,400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4	-	-	3,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6	-	-	2,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		7-8	-	-	4,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-3	3/2/2022	0.5-1.5		-	1,980		< 0.050		< 0.050		0.114		< 0.150		< 0.300		20.5		158		18.4		197
		2-3		-	2,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		107		< 10.0		107
		3-4		-	544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		11.6		118		14.7		144
		5-6		-	464		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		21.9		< 10.0		21.9
AH-T-4	3/2/2022	0.5-1.5		-	2,960		< 0.050		1.42		5.65		2.98		10.0		168		1320		616		2,104
		2-3		-	368		< 0.050		< 0.050		0.168		< 0.150		0.311		11.8		262		112		386
		3-4		-	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		51.2		13.7		64.9
		5-6		-	1,860		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		30.9		< 10.0		30.9
AH-T-5	3/3/2022	0.5-1.5		-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3		-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		404		202		606
		3-4		-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		357		1640		219		2,216
	3/9/2022	5-6		-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		7-8		-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-6	3/3/2022	0.5-1.5	-	-	2,760		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		262		175		437
		2-3	-	-	2,880		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4	-	-	6,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
	3/9/2022	5-6		-	4,080		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		26.4		< 10.0		26.4
		7-8		-	2,140		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-7	3/2/2022	0.5-1.5		-	624		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		131		104		235
		2-3		-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		11.6		11.6
		3-4		-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6		-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-8	3/1/2022	0-1	181	-	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		26.8		< 10.0		26.8
		1-2	24.2	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-9	3/1/2022	0-1	19.2	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	20.4	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-10	3/2/2022	0-1	42.6	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	13.4	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-11	3/1/2022	0-1	33.3	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		116		139		255
		1-2	11.1	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		117		162		279

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 SOIL ASSESSMENT - NAPP2131935400
 CONOCOPHILLIPS
 MCA BATTERY 2 - "14" TRUNKLINE RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²								TPH ³								
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-T-12	3/2/2022	0-1	10.9	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	7.80	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-13	3/1/2022	0-1	20.6	-	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	8.40	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-14	3/1/2022	0-1	20.2	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	5.50	-	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-15	3/2/2022	0-1	14.1	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	32.8	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-16	3/9/2022	0-1		-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2		-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - NAPP2131935400
CONOCOPHILLIPS
MCA BATTERY 2 - "14" TRUNKLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²								TPH ³								
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
							mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-22-1	3/1/2022	0-1	184	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	169	-	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		12.6		< 10.0		12.6
AH-22-2	3/1/2022	0-1	26.7	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	18.9	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-22-3	3/1/2022	0-1	461	-	832		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	123	-	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-22-4	3/3/2022	0.5-1.5	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	-	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4	-	-	1,720		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6	-	-	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-22-5	3/3/2022	0.5-1.5	-	-	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		7-8	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

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

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

L48 Spill Volume Estimate Form

Received by OCD: 4/26/2022 4:39:03 PM

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Spill Calculation - Subsurface Spill - Rectangle

Released to Imaging: 5/20/2022 10:30:33 AM

Incident ID	NAPP2131935400
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?	81 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

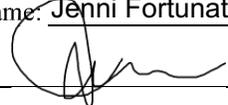
Characterization Report Checklist: *Each of the following items must be included in the report.*

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

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

Incident ID	NAPP2131935400
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: Jenni Fortunato Title: Program Manager, Remediation
Signature:  Date: 04/26/22
email: jenni.fortunato@cop.com Telephone: 832-486-2477

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2131935400
District RP	
Facility ID	
Application ID	

Remediation Plan

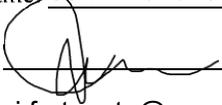
Remediation Plan Checklist: Each of the following items must be included in the plan.

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

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

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

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

Printed Name: Jenni Fortunato Title: Program Manager, Remediation
 Signature:  Date: 04/26/22
 email: jenni.fortunato@cop.com Telephone: 8324862477

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 05/20/2022

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(In feet)

POD Number	POD Code	POD Sub-basin	County	Q 4	Q 16	Q 28	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 10175		RA	LE	2	1	28	17S	32E		614814	3631005*	<input type="checkbox"/>	371	158	
RA 12020 POD1		RA	LE	2	2	1	28	17S	32E	614828	3630954	<input type="checkbox"/>	405	120	81 39
RA 12042 POD1		RA	LE	2	2	1	28	17S	32E	614891	3631181	<input type="checkbox"/>	422	400	
RA 12522 POD1		RA	LE	3	3	4	21	17S	32E	614941	3631122	<input type="checkbox"/>	471	100	
RA 12522 POD2		RA	LE	2	2	1	28	17S	32E	614949	3631098	<input type="checkbox"/>	481	100	
RA 12522 POD3		RA	LE	4	4	3	28	17S	32E	614980	3631093	<input type="checkbox"/>	513	100	
RA 12521 POD1		RA	LE	3	3	4	21	17S	32E	615127	3631271	<input type="checkbox"/>	668	105	92 13
RA 12020 POD3		RA	LE	2	1	2	28	17S	32E	615152	3631019	<input type="checkbox"/>	693	112	83 29

Average Depth to Water: **85 feet**
 Minimum Depth: **81 feet**
 Maximum Depth: **92 feet**

Record Count: 8

UTM NAD83 Radius Search (in meters):

Easting (X): 614470

Northing (Y): 3631145

Radius: 800

*UTM location was derived from PLSS - see Help

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

2/16/22 3:32 PM

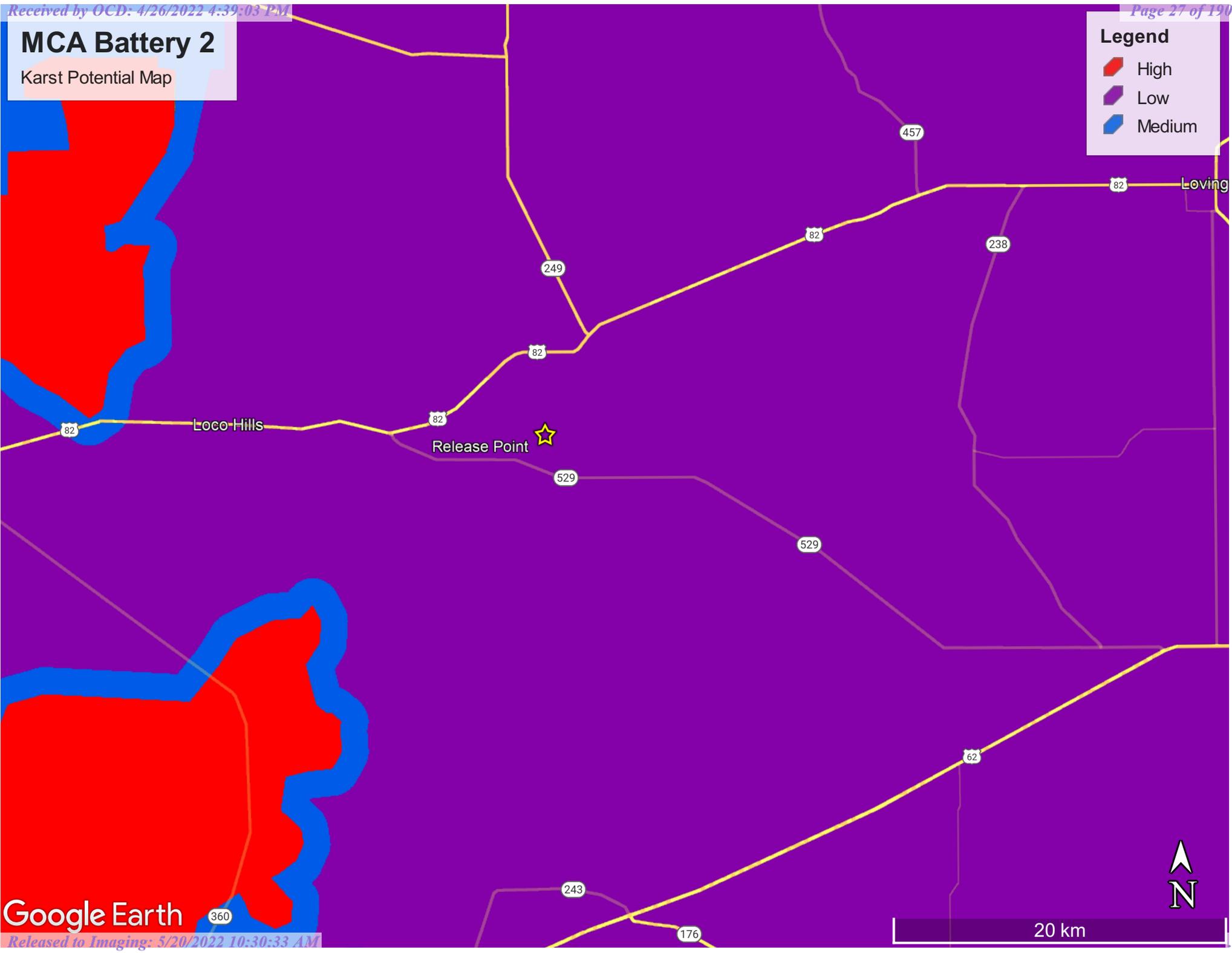
WATER COLUMN/ AVERAGE DEPTH TO WATER

MCA Battery 2

Karst Potential Map

Legend

-  High
-  Low
-  Medium



Google Earth

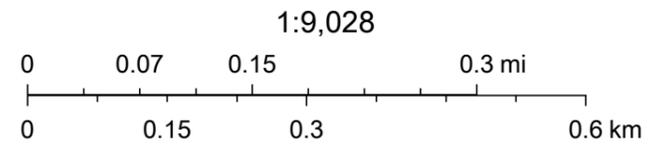


OCD Water Bodies Map



2/16/2022, 4:28:13 PM

-  Override 1
-  OCD District Offices
-  PLJV Probable Playas
-  OSE Water-bodies
-  OSE Streams



Esri, HERE, Garmin, GeoTechnologies, Inc., OCD, Maxar

APPENDIX C

Regulatory Correspondence

Poole, Nicholas

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, March 3, 2022 9:45 AM
To: Llull, Christian
Cc: Poole, Nicholas; Abbott, Sam; Fortunato, Jenni; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD
Subject: (Extension Approval) - NAPP2131935400 (MCA Battery 2 Trunk line)

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

RE: Incident #**NAPP2131935400**

Christian,

Your request for an extension to **May 1st, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Thursday, March 3, 2022 7:25 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>; Fortunato, Jenni <jenni.fortunato@conocophillips.com>
Subject: [EXTERNAL] Extension Request - NAPP2131935400 (MCA Battery 2 Trunk line)

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

To whom it may concern:

On behalf of ConocoPhillips, Tetra Tech is requesting a 60-day extension (until May 1,2022) to complete release characterization and associated reporting for the MCA 2 Battery Trunk Line Release incident (**NAPP2131935400**).

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

Christian

Christian Llull, P.G. | Program Manager

Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetrattech.com

Tetra Tech | *Leading with Science*® | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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TETRA TECH

From: [Tucker, Shelly J](#)
To: [Llull, Christian](#); [Arias, Arthur A](#)
Cc: [Fortunato, Jenni](#); [Richards, Andrew R](#)
Subject: Re: [EXTERNAL] Request for Approval - Remediation (NAPP2131935400)
Date: Friday, February 04, 2022 1:20:02 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

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

I verified with our Arch team this area has been cleared. The BLM hereby grants approval to begin delineation and remediation work for this release.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
 Realty

Bureau of Land Management
 620 E. Greene St
 Carlsbad, NM 88220

575.234.5706 - Direct
 575.200.0614

stucker@blm.gov

From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Friday, February 4, 2022 9:51 AM
To: Arias, Arthur A <aaarias@blm.gov>; Tucker, Shelly J <stucker@blm.gov>
Cc: Fortunato, Jenni <Jenni.Fortunato@conocophillips.com>; Richards, Andrew R <Andrew.R.Richards@conocophillips.com>
Subject: [EXTERNAL] Request for Approval - Remediation (NAPP2131935400)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Art, Shelly:

Good afternoon. I write on behalf of ConocoPhillips.

Tetra Tech is assisting with assessment and remediation of a previously reported unplanned release with the NMOCD.

In order to complete the initial remediation and the submittal process we are requesting verbal approval to proceed with further cleanup at the locations listed below. We are uncertain if this area has been cleared for archaeology.

Aerial image is attached and show the locations to be scraped/remediated.

Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

Name of Release: MCA Battery 2 - 14" Trunk line Release and Flare Scrubber (11/1)
Incident Identification (ID) NAPP2131935400
Lea County, NM
Approximate Release Location(s): 32.811944°, -103.777500°
Date Release Discovered: 11/1/2021

The release reportedly consisted of 17.2 barrels (bbls) of crude oil, of which 0 bbls were recovered and 68.9 barrels (bbls) of produced water, of which 0 bbls were recovered. The observed impacted area in the field is approximately 18,00 square feet; Predominant remediation with hand shovels given the sheer number of buried flowlines in the area. Mini-excavator where applicable.



Please let me know at your earliest convenience that we can proceed.
Thank you very much for your time on this request.

Christian
512-565-0190

Christian Llull, P.G. | Program Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetratech.com

Tetra Tech | *Leading with Science*® | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

 Please consider the environment before printing. [Read more](#)



APPENDIX D

Waste Manifests



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: RAY GARCIA
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/21/2022
 Hauler: MCNABB PARTNERS
 Driver: HUGO
 Truck # M31
 Card #
 Job Ref #

Ticket #: 700-1277262
 Bid #: O6UJ9A000HH0
 Date: 2/21/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	48.00 yards <u>16.00</u>

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Hugo M31 _____ *[Signature]* _____

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: RAY GARCIA
 AFE #:
 PO #:
 Manifest #: N/A
 Manif. Date: 2/22/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1277584
 Bid #: O6UJ9A000HH0
 Date: 2/22/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____

R360 Representative Signature _____

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: RAY GARCA
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/23/2022
 Hauler: MCNABB PARTNERS
 Driver: DANIEL
 Truck #: M02
 Card #
 Job Ref #

Ticket #: 700-1277880
 Bid #: O6UJ9A000HH0
 Date: 2/23/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	10.00	yards

Generator Certification Statement of Waste Status

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

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

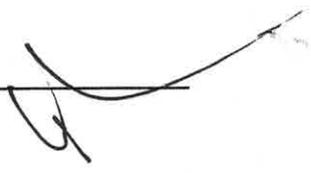
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____ 



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: RAY GARZA
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/24/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1278236
 Bid #: O6UJ9A000HH0
 Date: 2/24/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

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

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____ 



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: BUCKY MOORE
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/25/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1278601
 Bid #: O6UJ9A000HH0
 Date: 2/25/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity	Units
-------------------	----------	-------

Contaminated Soil (RCRA Exempt)	18.00	yards
---------------------------------	-------	-------

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature	R360 Representative Signature
-------------------------	-------------------------------

_____	_____
-------	-------

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: RAY GARZA
 AFE #:
 PO #:
 Manifest #: N/A
 Manif. Date: 2/28/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1279312
 Bid #: O6UJ9A000HH0
 Date: 2/28/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer #: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: RAY GARZA
 AFE #:
 PO #:
 Manifest #: N/A
 Manif. Date: 2/28/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1279312
 Bid #: O6UJ9A000HH0
 Date: 2/28/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards 16.00

Generator Certification Statement of Waste Status
 I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:
 RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: COLTON MOORE
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/28/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1279194
 Bid #: O6UJ9A000HH0
 Date: 2/28/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards 16.00

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____ **R360 Representative Signature** _____
 _____ 

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: COLTON MOORE
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/28/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1279194
 Bid #: O6UJ9A000HH0
 Date: 2/28/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: COLTON BICKERSTAFF
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 3/1/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1279546
 Bid #: O6UJ9A000HHO
 Date: 3/1/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards 16.00

Generator Certification Statement of Waste Status

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

RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

_____ 

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: COLTON BICKERSTAFF
 AFE #:
 PO #:
 Manifest #: N/A
 Manif. Date: 3/1/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1279699
 Bid #: O6UJ9A000HH0
 Date: 3/1/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards 16.00

Generator Certification Statement of Waste Status
 I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:
 RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____


Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: COLTON RICKWOOD
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 3/2/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1280034
 Bid #: O6UJ9A000HH0
 Date: 3/2/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards 16.00

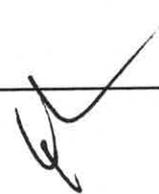
Generator Certification Statement of Waste Status
 I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:
 RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____ 



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JENNI FORTUNATO
 AFE #:
 PO #:
 Manifest #: N/A
 Manif. Date: 3/3/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

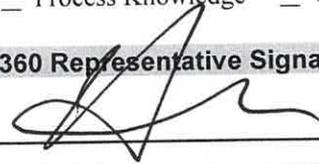
Ticket #: 700-1280411
 Bid #: O6UJ9A000HH0
 Date: 3/3/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status
 I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:
 RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ R360 Representative Signature 

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JENNI FORTUNATO
 AFE #:
 PO #:
 Manifest #: N/A
 Manif. Date: 3/4/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1280777
 Bid #: O6UJ9A000HH0
 Date: 3/4/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	18.00	yards <i>16</i>

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: BUCKY MOORE
AFE #:
PO #:
Manifest #: 005
Manif. Date: 3/7/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M32
Card #:
Job Ref #

Ticket #: 700-1281551
Bid #: O6UJ9A000HH0
Date: 3/7/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 999908
Well Name: MCA BATTERY
Well #: 2
Field:
Field #:
Rig: NON-DRILLING
County

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: BUCKY MOORE
 AFE #:
 PO #:
 Manifest #: 005
 Manif. Date: 3/7/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1281551
 Bid #: O6UJ9A000HH0
 Date: 3/7/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	18.00	yards 16

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: BUCKY MOORE
 AFE #:
 PO #:
 Manifest #: 004
 Manif. Date: 3/7/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1281393
 Bid #: O6UJ9A000HH0
 Date: 3/7/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity	Units
-------------------	----------	-------

Contaminated Soil (RCRA Exempt)	18.00	yards
---------------------------------	-------	-------

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____

R360 Representative Signature _____

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: BUCKY MOORE
AFE #:
PO #:
Manifest #: 004
Manif. Date: 3/7/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M32
Card #:
Job Ref #

Ticket #: 700-1281393
Bid #: O6UJ9A000HHO
Date: 3/7/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 999908
Well Name: MCA BATTERY
Well #: 2
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JENNI FORTUNATO
 AFE #:
 PO #:
 Manifest #: 006
 Manif. Date: 3/8/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

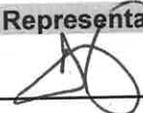
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 Bid #: O6UJ9A000HH0
 Date: 3/8/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards 16.00

Generator Certification Statement of Waste Status
 I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:
 RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____
 _____ 

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JENNI FORTUNATO
 AFE #:
 PO #:
 Manifest #: 007
 Manif. Date: 3/9/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1282308
 Bid #: O6UJ9A000HH0
 Date: 3/9/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 999908
 Well Name: MCA BATTERY
 Well #: 2
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Permian Basin

Facility: CRI

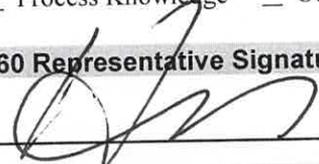
Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature _____

R360 Representative Signature 

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____

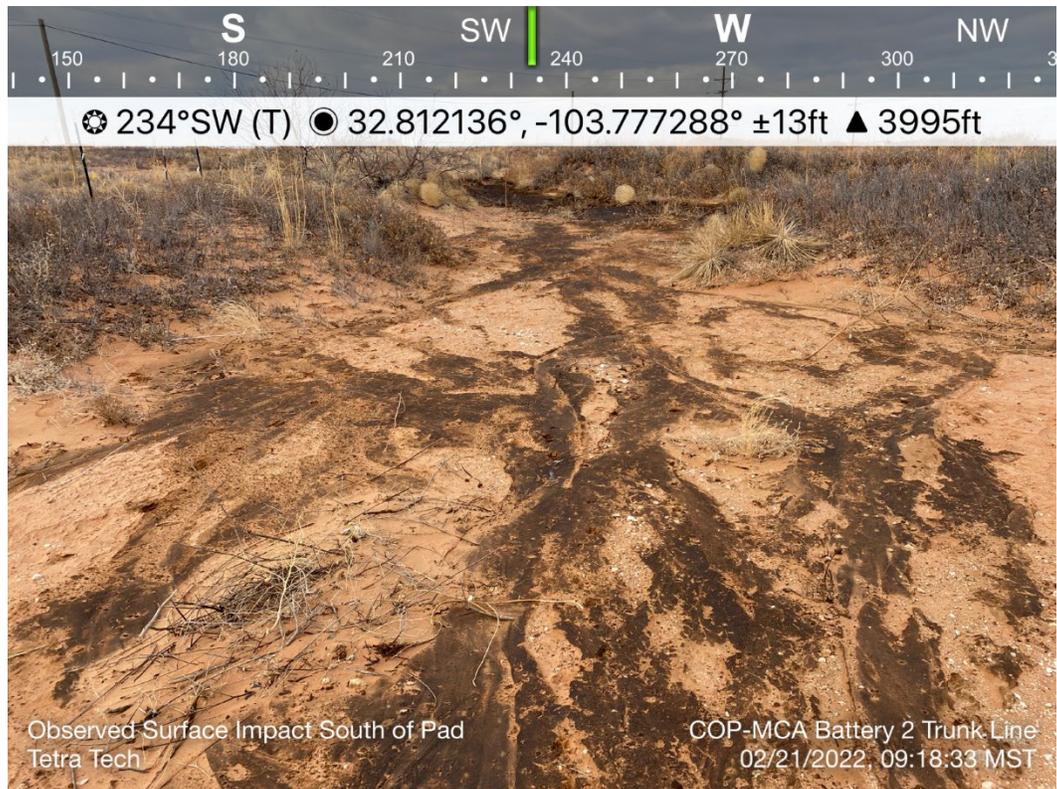
Date: _____

APPENDIX E

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	Site signage: MCA Unit and location information.	1
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Release footprint south of lease pad.	2
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



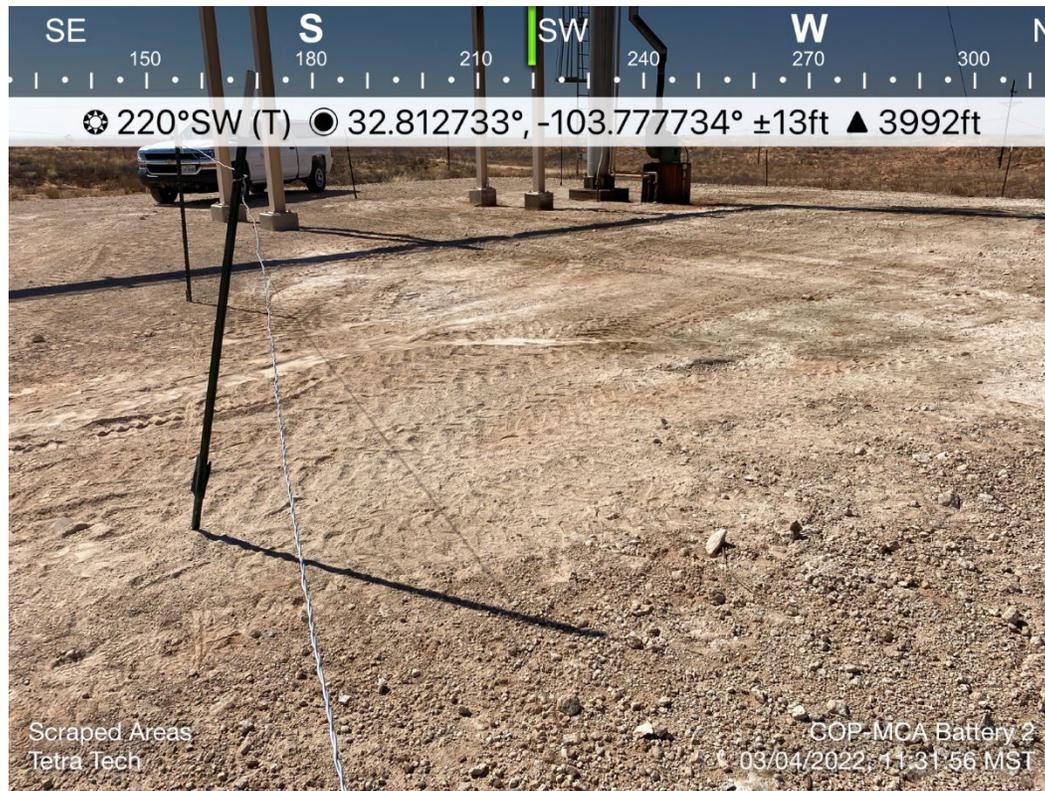
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Release footprint and surface staining south of lease pad.	3
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



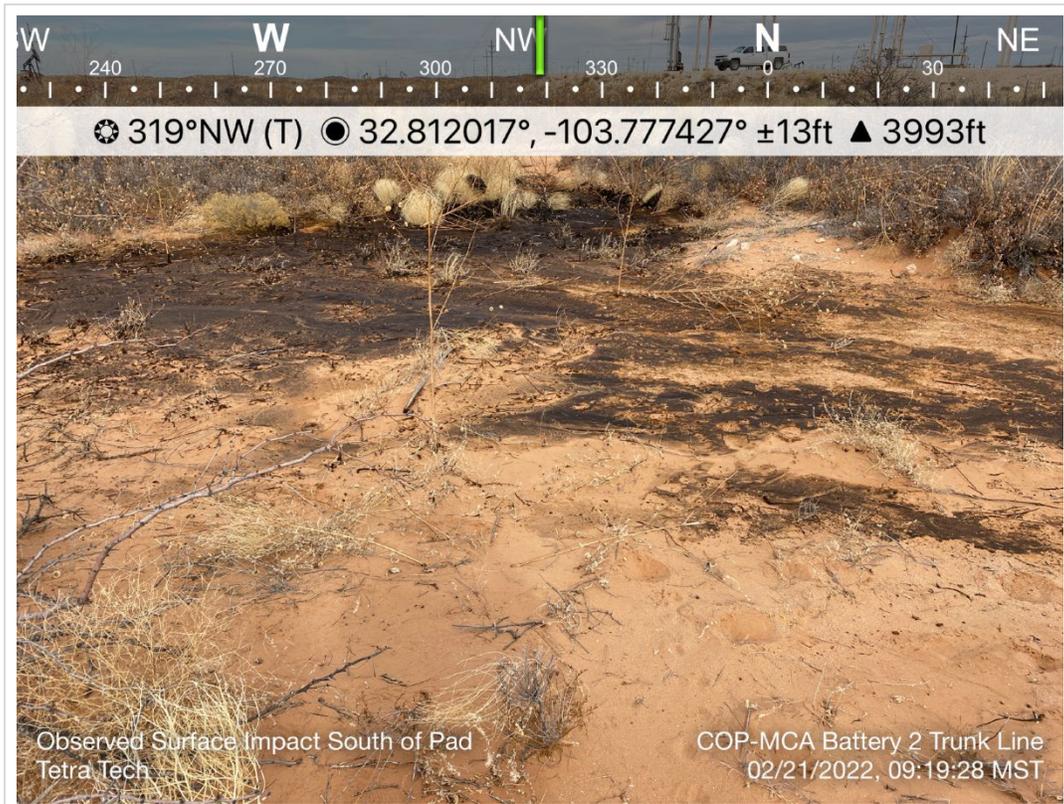
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Initial Response, 6" scrape.	4
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Flare Stack. Release footprint and surface staining.	5
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Flare Stack. Initial Response, surface scrape.	6
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



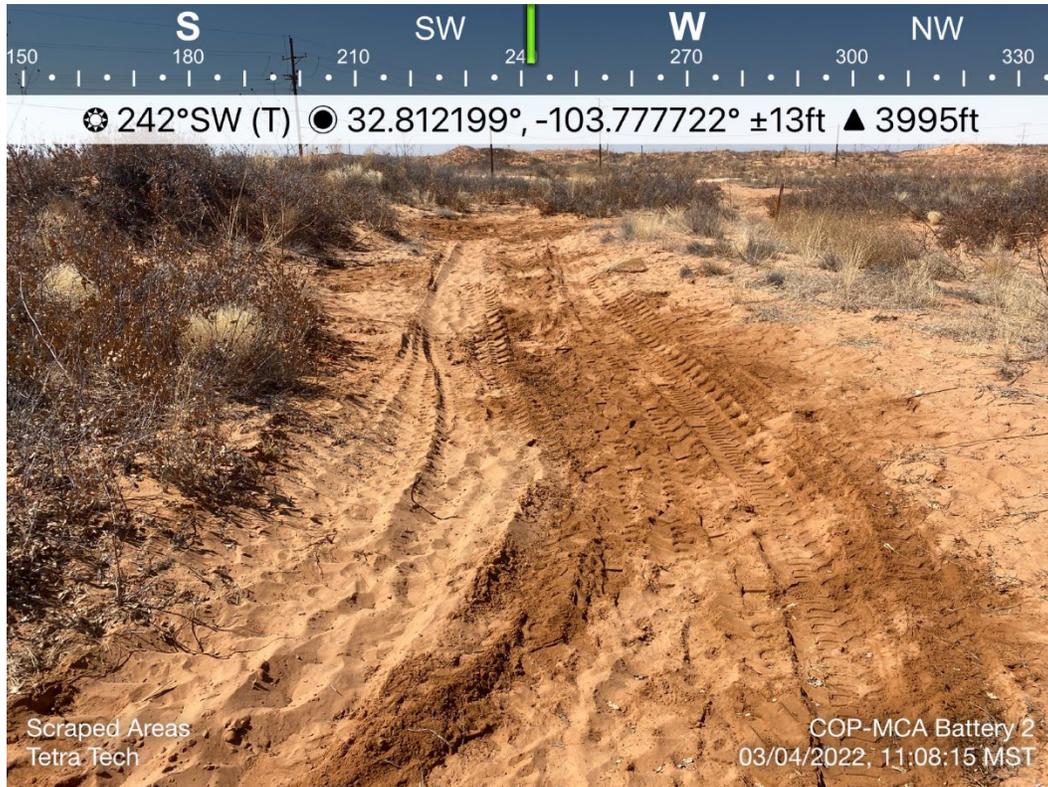
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View northwest. Release footprint and surface staining.	7
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



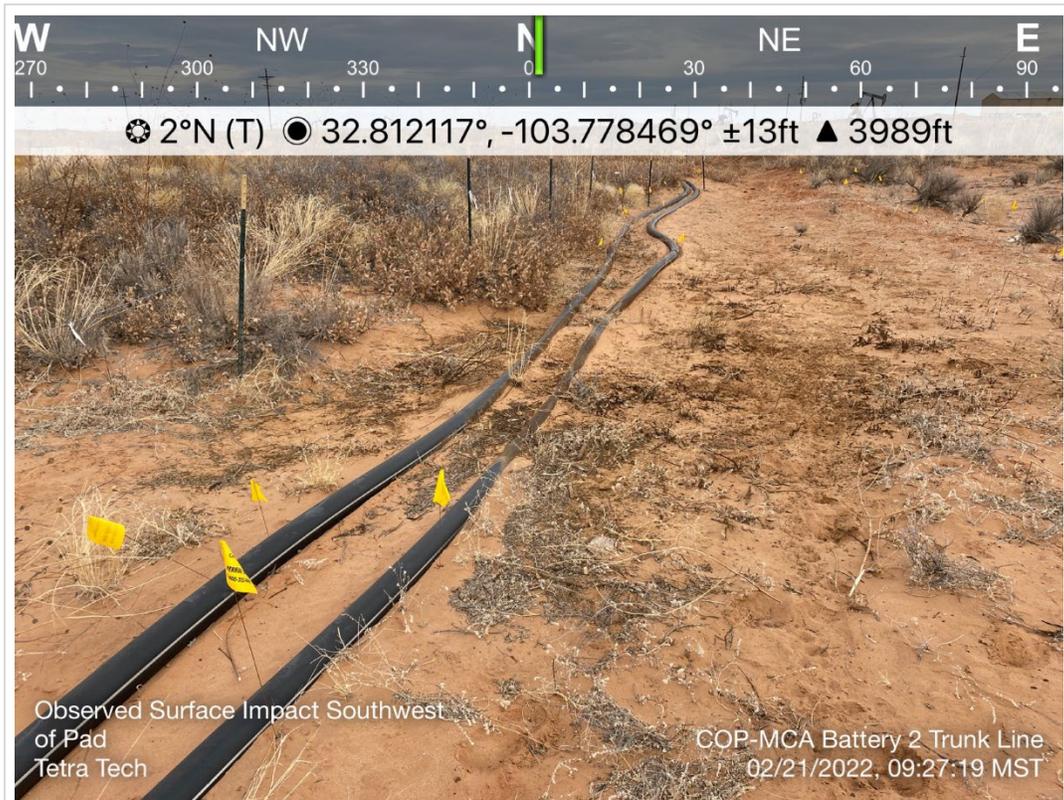
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View northwest. Initial response, 6" scrape.	8
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View west southwest. Release footprint and surface staining south of lease pad.	9
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View west southwest. Initial Response, 6" scrape.	10
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View north. Release footprint and surface staining southwest of lease pad.	11
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View north. Initial Response, 6" scrape.	12
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022

APPENDIX F

Laboratory Analytical Data



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

March 02, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/28/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 2 (0-1') (H220770-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.6 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 2 (1-2') (H220770-02)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 3 (0-1') (H220770-03)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	47.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 3 (1-2') (H220770-04)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 4 (0-1') (H220770-05)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 4 (1-2') (H220770-06)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 6 (0-1') (H220770-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 6 (1-2') (H220770-08)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 7 (0-1') (H220770-09)

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	03/01/2022	ND	1.99	99.3	2.00	2.89	
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 7 (1-2') (H220770-10)

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	03/01/2022	ND	2.11	105	2.00	1.41	
Toluene*	<0.050	0.050	03/01/2022	ND	2.09	104	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	2.07	104	2.00	1.89	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.42	107	6.00	1.70	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 8 (0-1') (H220770-11)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	2.11	105	2.00	1.41	
Toluene*	<0.050	0.050	03/01/2022	ND	2.09	104	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	2.07	104	2.00	1.89	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.42	107	6.00	1.70	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1820	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 8 (1-2') (H220770-12)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2022	ND	2.11	105	2.00	1.41	
Toluene*	<0.050	0.050	03/01/2022	ND	2.09	104	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	2.07	104	2.00	1.89	
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.42	107	6.00	1.70	
Total BTEX	<0.300	0.300	03/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/02/2022	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	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

2/2

P.O. #:

Company: *Tetra Tech*

Attn: *Christen Linn*

Address: *By email*

City:

State:

Phone #:

Fax #:

Project #: *212-MD-02689*

Project Owner:

City:

State:

Phone #:

Fax #:

Project Name: *MT Bakery 2 - 7yr Truck Linc Release*

Project Location: *Lee County, NY*

Project Name: *Colton Bakeroff*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H220710
11 AH-810-13
12 AH-815-23

(G)RAB OR (C)OMP.
 # CONTAINERS
 GROUNDWATER
 WASTEWATER
 SOIL
 OIL
 SLUDGE
 OTHER :
 ACID/BASE:
 ICE / COOL
 OTHER :

DATE
 TIME

6/1
2/29/22
2/29/22
TPH
BTEX
Chlorides

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Relinquished By:

Date: *2/29/22*

Received By:

Time: *1545*

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

Colton Bakeroff

Date: *2/29/22*

Received By: *Christen Linn*

REMARKS: *Christen.Linn@tetratech.com*

Time:

Delivered By: (Circle One)

Observed Temp. °C *22.2*

Sample Condition Cool Intact Yes No

CHECKED BY: (Initials) *VL*

Turnaround Time:

Standard Rush

Bacteria (only) Cool Intact Yes No

Sample Condition Observed Temp. °C Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C *21.7*

Yes No

40

Thermometer ID #113 Correction Factor -0.5°C

Yes No

Corrected Temp. °C

FORM 0007-R-3-2-T070712

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



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

March 07, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/22 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 10 (0-1') (H220796-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 11 (0-1') (H220796-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 8 (0-1') (H220796-03)

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	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	26.8	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 8 (1'-2') (H220796-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487		
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06		
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND						

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 9 (0-1') (H220796-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 9 (1'-2') (H220796-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 11 (0-1') (H220796-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487		
DRO >C10-C28*	116	10.0	03/04/2022	ND	208	104	200	4.06		
EXT DRO >C28-C36	139	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 146 % 66.9-136

Surrogate: 1-Chlorooctadecane 155 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 11 (1'-2') (H220796-08)

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	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487		
DRO >C10-C28*	117	10.0	03/04/2022	ND	208	104	200	4.06		
EXT DRO >C28-C36	162	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 146 % 66.9-136

Surrogate: 1-Chlorooctadecane 153 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 13 (0-1') (H220796-09)

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	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487		
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06		
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 138 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 13 (1'-2') (H220796-10)

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	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487		
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06		
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 142 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 14 (0-1') (H220796-11)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 14 (1'-2') (H220796-12)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487		
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06		
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 1 (0-1') (H220796-13)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 1 (1'-2') (H220796-14)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	12.6	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 2 (0-1') (H220796-15)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 2 (1'-2') (H220796-16)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 3 (0-1') (H220796-17)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 3 (1'-2') (H220796-18)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (0-1') (H220796-19)

BTEX 8021B		mg/kg		Analyzed By: MS\				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	2.28	0.200	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	10.8	0.200	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	22.0	0.600	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	35.1	1.20	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	477	50.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	2420	50.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	442	50.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 183 % 66.9-136

Surrogate: 1-Chlorooctadecane 264 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (2'-3') (H220796-20)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	0.195	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.772	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	1.40	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	2.37	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	136	10.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	1490	10.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	345	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (3'-4') (H220796-21)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.090	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	0.199	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.6	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	260	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	29.8	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (5'-6') (H220796-22)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.069	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	0.228	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.2	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	357	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	49.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (7'-8') (H220796-23)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.190	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	0.638	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	0.828	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	43.7	10.0	03/04/2022	ND	183	91.5	200	0.125		
DRO >C10-C28*	502	10.0	03/04/2022	ND	204	102	200	0.0265		
EXT DRO >C28-C36	85.7	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 149 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 5 (0-1') (H220796-24)

BTEX 8021B		mg/kg		Analyzed By: MS\				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.755	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	3.03	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	3.78	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 177 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	219	10.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	5020	10.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	2420	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 155 % 66.9-136

Surrogate: 1-Chlorooctadecane 257 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 5 (2'-3') (H220796-25)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	368	10.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	311	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 5 (3'-4') (H220796-26)

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	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	210	105	200	0.608	
DRO >C10-C28*	61.0	10.0	03/04/2022	ND	213	106	200	0.406	
EXT DRO >C28-C36	22.3	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: ConocoPhillips
 Project Manager: Christy Lynn
 Address: Christy Lynn LHM@tetratech.com
 City: _____ State: _____ Zip: _____
 P.O. #: _____
 Attn: Christy Lynn
 Address: by email
 City: _____ State: _____ Zip: _____
 Project #: 212-100-02689 Project Owner: _____
 Project Name: MCA Battery 2 Releases
 Project Location: Lee County, NM
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____
 Sampler Name: Colton Brakeroff
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H220716</u>	<u>1 AH-10 (0-1')</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>3/11/22</u>				
	<u>2 AH-11 (0-1')</u>													
	<u>3 AH-T-8 (0-1')</u>													
	<u>4 AH-T-8 (1-2')</u>													
	<u>5 AH-T-9 (0-1')</u>													
	<u>6 AH-T-9 (1-2')</u>													
	<u>7 AH-T-11 (0-1')</u>													
	<u>8 AH-T-11 (1-2')</u>													
	<u>9 AH-T-13 (0-1')</u>													
	<u>10 AH-T-13 (1-2')</u>													

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Relinquished By: _____
 Date: 3/11/22
 Time: 1540
 Received By: Christy Lynn
 Date: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C 22.9
 Corrected Temp. °C 22.4
 Sample Condition: Intact Cool Yes No

Turnaround Time: _____
 Standard RUSH
 Bacteria (only) Sample Condition
 Cool Intact Yes No

REMARKS: Christy Lynn@tetratech.com

1/3



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

Company Name: ConocoPhillips		P.O. #:	
Project Manager: Christina L Williams		Company: Tetra Tech	
Address: Christina.LWilliams@tetratech.com		Attn: Christina L Williams	
City:	State:	Zip:	Address: by email
Phone #:	Fax #:	City:	State:
Project #: 212E-MD-026899	Project Owner:	Phone #:	Zip:
Project Name: NVA Battery 2 Poles	Project Location: Log Camp, NM	Fax #:	
Sampler Name: Colton BAKER			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H220796														
11	AH-T-14 (0-1')	6	1			X				3/1/22		X	X	X
12	AH-T-14 (1-2')	1	1									X	X	X
13	AH-22-1 (0-1')	1	1									X	X	X
14	AH-22-1 (1-2')	1	1									X	X	X
15	AH-22-2 (0-1')	1	1									X	X	X
16	AH-22-2 (1-2')	1	1									X	X	X
17	AH-22-3 (0-1')	1	1									X	X	X
18	AH-22-3 (1-2')	1	1									X	X	X
19	AH-1 (0-1')	1	1									X	X	X
20	AH-1 (2-3')	1	1									X	X	X

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Relinquished By: Colton BAKER	Date: 3/1/22	Received By: Jamara Clark	Time: 15:40
Delivered By: (Circle One)	Observed Temp. °C: 22.9	Sample Condition	CHECKED BY: (Initials) AE
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 22.4	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Thermometer ID #113	Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
		Correction Factor -0.5°C	Sample Condition <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: **Christina.LWilliams@tetratech.com**



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

BILL TO

ANALYSIS REQUEST

Company Name: <u>Conoco Phillips</u>		P.O. #:	
Project Manager: <u>Christen Hull</u>		Company: <u>Tetra Tech</u>	
Address: <u>Christen.Hull@tetratech.com</u>		Attn: <u>Christen Hull</u>	
City:		Address: <u>by email</u>	
State:		City:	
Zip:		State:	
Project #: <u>212-MD-02689</u>		Project Owner:	
Project Name: <u>MCA Bottom 2 Releases</u>		City:	
Project Location: <u>Lee County, NM</u>		State:	
Sampler Name: <u>Colton Bickert</u>		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>HD20796</u>	<u>21 AH-1 (3'-4')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>3/1/22</u>		<u>TPH</u>
	<u>22 AH-1 (5'-6')</u>	<u>G</u>	<u>1</u>			<u>X</u>						<u>BTEX</u>
	<u>23 AH-1 (7'-9')</u>	<u>G</u>	<u>1</u>			<u>X</u>						<u>Chlorides</u>
	<u>24 AH-S (0-1')</u>											
	<u>25 AH-S (2'-3')</u>											
	<u>26 AH-S (3'-4')</u>											

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Relinquished By: Colton Bickert Date: 3/1/22 Received By: Christen Hull

Relinquished By: Colton Bickert Date: 3/1/22 Received By: Christen Hull

Delivered By: (Circle One) Observed Temp. °C 23.9 Sample Condition Cool Intact Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C 23.4 Yes No

Checked By: TC

Thermometer ID #13 Correction Factor -0.5°C

Standard Rush Bacteria (only) Cool Intact Yes No

Sample Condition Observed Temp. °C Corrected Temp. °C

Remarks: Christen.Hull@tetratech.com



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

March 08, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 1 (0.5'-1.5') (H220830-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/04/2022	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*	14.7	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	215	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	30.9	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 1 (2'-3') (H220830-02)

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	03/04/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/04/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/04/2022	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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 1 (3'-4') (H220830-03)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	03/04/2022	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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	24.1	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 1 (5'-6') (H220830-04)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/04/2022	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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	56.5	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 3 (0.5'-1.5') (H220830-05)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	0.114	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1980	16.0	03/04/2022	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*	20.5	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	158	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	18.4	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 3 (2'-3') (H220830-06)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/04/2022	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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	107	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 3 (3'-4') (H220830-07)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/04/2022	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*	11.6	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	118	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	14.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 3 (5'-6') (H220830-08)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/04/2022	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	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	21.9	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 4 (0.5'-1.5') (H220830-09)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	1.42	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	5.65	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	2.98	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	10.0	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/04/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	168	50.0	03/05/2022	ND	225	112	200	0.520		
DRO >C10-C28*	1320	50.0	03/05/2022	ND	237	118	200	2.10		
EXT DRO >C28-C36	616	50.0	03/05/2022	ND						

Surrogate: 1-Chlorooctane 95.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 145 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 4 (2'-3') (H220830-10)

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	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	0.168	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	0.311	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/04/2022	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*	11.8	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	262	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	112	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 4 (3'-4') (H220830-11)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/04/2022	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	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	51.2	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	13.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 4 (5'-6') (H220830-12)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1860	16.0	03/04/2022	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	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	30.9	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 5 (0.5'-1.5') (H220830-13)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	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	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 5 (2'-3') (H220830-14)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	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	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	404	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	202	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 5 (3'-4') (H220830-15)

BTEX 8021B		mg/kg		Analyzed By: MS\				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	GC-NC	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	GC-NC	
Total BTEX	<0.300	0.300	03/04/2022	ND					GC-NC	

Surrogate: 4-Bromofluorobenzene (PID) 249 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/04/2022	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*	357	10.0	03/04/2022	ND	225	112	200	0.520		
DRO >C10-C28*	1640	10.0	03/04/2022	ND	237	118	200	2.10		
EXT DRO >C28-C36	219	10.0	03/04/2022	ND						

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 141 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 7 (0.5'-1.5') (H220830-16)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/04/2022	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	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	131	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	104	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 7 (2'-3') (H220830-17)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	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	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	11.6	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 7 (3'-4') (H220830-18)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	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	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.1 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 7 (5'-6') (H220830-19)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 10 (0-1') (H220830-20)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 10 (1'-2') (H220830-21)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 12 (0-1') (H220830-22)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 12 (1'-2') (H220830-23)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 15 (0-1') (H220830-24)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 15 (1'-2') (H220830-25)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 9 (0-1') (H220830-26)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	674	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	323	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 9 (2'-3') (H220830-27)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	13.6	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 9 (3'-4') (H220830-28)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 9 (5'-6') (H220830-29)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	24.7	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 9 (7'-8') (H220830-30)

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	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/04/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.3 % 59.5-142

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: Conoco Phillips
 Project Manager: Christy Lynn Bluff
 Address: Christy Lynn Bluff @stratex.com
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: 2102-MD-02699 Project Owner: _____
 Project Name: WA Battery 2 Releases
 Project Location: Lea County, NM
 Sampler Name: Colton Birkesser
 FOR LAB USE ONLY

P.O. #: _____ Company: Tetra Tech
 Attn: Christy Lynn Bluff
 Address: by email
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H220830</u>	<u>1 AH-T-1 (0.5'-1.5')</u>		<u>6</u>			<u>X</u>				<u>3/2/22</u>		<u>X</u>	<u>X</u>	<u>X</u>
	<u>2 AH-T-1 (2'-3')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>3 AH-T-1 (3'-4')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>4 AH-T-1 (5'-6')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>5 AH-T-3 (0.5'-1.5')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>6 AH-T-3 (2'-3')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>7 AH-T-3 (3'-4')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>8 AH-T-3 (5'-6')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>9 AH-T-4 (0.5'-1.5')</u>											<u>X</u>	<u>X</u>	<u>X</u>
	<u>10 AH-T-4 (2'-3')</u>											<u>X</u>	<u>X</u>	<u>X</u>

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Relinquished By: Colton Birkesser Date: 3/2/22 Received By: Jamara Reddy
 Relinquished By: _____ Date: 1545 Received By: _____

Delivered By: (Circle One) Observed Temp. °C 33.7 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 23.2 Yes No

Sampler - UPS - Bus - Other: _____

Turnaround Time: _____ Standard Bacteria (only)
 Thermometer ID #113 Cool Intact Yes No
 Correction Factor -0.5°C Yes No

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: Christy Lynn Bluff @stratex.com

Checked By: (Initials) AB
 Corrected Temp. °C _____

1/3



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

Company Name: <u>ConocoPhillips</u> Project Manager: <u>Christina Lull</u> Address: <u>Christina.Lull@statack.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>212-MD-02689</u> Project Owner: _____ Project Name: <u>McA Battery 2 Releases</u> Project Location: <u>Lee County, NM</u> Sampler Name: <u>Cotton Bakerstaff</u>		P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Lull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H220836</u> Sample I.D. _____ 11 <u>AH-T-4 (3'-4')</u> 12 <u>AH-T-4 (5'-6')</u> 13 <u>AH-T-5 (0.5'-1.5')</u> 14 <u>AH-T-5 (2'-3')</u> 15 <u>AH-T-5 (3'-4')</u> 16 <u>AH-T-7 (0.5'-1.5')</u> 17 <u>AH-T-7 (2'-3')</u> 18 <u>AH-T-7 (3'-4')</u> 19 <u>AH-T-7 (5'-6')</u> 20 <u>AH-T-10 (0-1')</u>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL <input checked="" type="checkbox"/> _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE <u>3/2/22</u> TIME _____ TPH <input checked="" type="checkbox"/> _____ BTEX <input checked="" type="checkbox"/> _____ Chlorides <input checked="" type="checkbox"/> _____	
Relinquished By: <u>Cotton Bakerstaff</u> Date: <u>3/2/22</u> Time: <u>1545</u>		Received By: <u>Jessica Mendez</u> Date: _____ Time: _____	
Delivered By: (Circle One) _____ Observed Temp. °C <u>237</u> Corrected Temp. °C <u>232</u>		Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) _____ Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 <input type="checkbox"/> Bacteria (only) Sample Condition Correction Factor -0.5°C <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
REMARKS: <u>Christina.Lull@statack.com</u> Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

Company Name: <u>ConocoPhillips</u> Project Manager: <u>Christina Hill</u> Address: <u>Christina Hill @hotmail.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>212-MD-02689</u> Project Owner: _____ Project Name: <u>NCA Battery 2 Release</u> Project Location: <u>Lee County, NM</u> Sampler Name: <u>Colton Bickert</u> <small>FOR LAB USE ONLY</small>		BILL TO P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Hill</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____					
Lab I.D. <u>H220830</u>		Sample I.D. 21 AH-T-10 (1'-2') 22 AH-T-12 (0-1') 23 AH-T-12 (1'-2') 24 AH-T-15 (0-1') 25 AH-T-15 (1'-2') 26 AH-9 (0-1') 27 AH-9 (2'-3') 28 AH-9 (3'-4') 29 AH-9 (5'-6') 30 AH-9 (7'-9')		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME		MATRIX PRESERV SAMPLING TPH BTEX Chlorides	
Relinquished By: <u>Colton Bickert</u> Date: <u>3/2/22</u> Time: <u>1545</u>		Received By: <u>Jawar</u> Date: _____ Time: _____		REMARKS: Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <u>23.7</u> Corrected Temp. °C <u>23.2</u>		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 Correction Factor -0.5°C			
Sample Condition Cool Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sample Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <u>JP</u>		Bacteria (only) Sample Condition Cool Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Observed Temp. °C Corrected Temp. °C			

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



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

March 08, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/03/22 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 2 (0.5'-1.5') (H220845-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 2 (2'-3') (H220845-02)

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	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEX	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312		
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45		
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND						

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 2 (3'-4') (H220845-03)

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 2 (5'-6') (H220845-04)

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 2 (7'-8') (H220845-05)

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 6 (0.5'-1.5') (H220845-06)

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	262	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	175	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 6 (2'-3') (H220845-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 6 (3'-4') (H220845-08)

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	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEX	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312		
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45		
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND						

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 4 (0.5'-1.5') (H220845-09)

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 74.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 4 (2'-3') (H220845-10)

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.2 % 59.5-142

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

Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 4 (3'-4') (H220845-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 4 (5'-6') (H220845-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 5 (0.5'-1.5') (H220845-13)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/04/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 67.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 5 (2'-3') (H220845-14)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 5 (3'-4') (H220845-15)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 5 (5'-6') (H220845-16)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 22 - 5 (7'-8') (H220845-17)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

Company Name: <u>ConocoPhillips</u> Project Manager: <u>Christen Lull</u> Address: <u>Christen Lull@petrotech.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>2102-MD-02699</u> Project Owner: _____ Project Name: <u>MA Gating 2 Releases</u> Project Location: <u>Lea County, NM</u> Sampler Name: <u>Colton Rakerstaff</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christen Lull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H220845</u> Sample I.D. _____ 1 AH-T-2 (0.5'-1.5') 2 AH-T-2 (2'-3') 3 AH-T-2 (3'-4') 4 AH-T-2 (5'-6') 5 AH-T-2 (7'-9') 6 AH-T-6 (0.5'-1.5') 7 AH-T-6 (2'-3') 8 AH-T-6 (3'-4') 9 AH-22-4 (0.5'-1.5') 10 AH-22-4 (2'-3')		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <u>3/3/22</u> TIME: _____ TPH _____ BTEX _____ Chlorides _____	
Relinquished By: <u>Colton Rakerstaff</u> Date: <u>3/3/22</u> Received By: <u>Christen Lull</u> Date: _____ Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: <u>Christen.Lull@petrotech.com</u> REMARKS: _____		ANALYSIS REQUEST	
Delivered By: (Circle One) _____ Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>23.6</u> Corrected Temp. °C: <u>23.1</u> Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <u>TR</u> Turnaround Time: _____ Thermometer ID #113 Correction Factor -0.5°C Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: _____		t Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/12

Company Name: <u>Carroll Pharms</u> Project Manager: <u>Christen Hull</u> Address: <u>Christen Hull Extra Tech Con</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>212-MD-01689</u> Project Owner: _____ Project Name: <u>MSA Battery 2 Releases</u> Project Location: <u>Lee County, NY</u> Sampler Name: <u>Cohen Baker App</u>		P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christen Hull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H220845</u> Sample I.D. _____ Date: _____ Time: _____		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <u>3/3/22</u> TIME: _____	
Relinquished By: <u>Cohen Baker App</u> Date: <u>3/3/22</u> Received By: <u>Christen Hull</u> Time: <u>1530</u> Received By: <u>Christen Hull</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: <u>Christen Hull Extra Tech Con</u>	
Delivered By: (Circle One) _____ Observed Temp. °C <u>23.4</u> Corrected Temp. °C <u>23.1</u>		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) <u>A.B.</u> Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	



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

March 14, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/09/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (8'-9') (H220948-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	190	94.9	200	1.09	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	208	104	200	0.559	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (11'-12') (H220948-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 6 (5'-6') (H220948-03)

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	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	03/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	26.4	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 6 (7'-8') (H220948-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996		
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53		
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78		
Total BTEX	<0.300	0.300	03/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2140	16.0	03/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	178	89.2	200	0.626		
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	217	108	200	4.19		
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND						

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 5 (5'-6') (H220948-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 5 (7'-8') (H220948-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/12/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.2 % 59.5-142

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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 1 (7'-8') (H220948-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	03/12/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 1 (9'-10') (H220948-08)

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	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	03/12/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 16 (0-1') (H220948-09)

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	03/12/2022	ND	2.10	105	2.00	0.996		
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53		
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78		
Total BTEX	<0.300	0.300	03/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/12/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	178	89.2	200	0.626		
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	217	108	200	4.19		
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND						

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Analytical Results For:

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - T - 16 (1'-2') (H220948-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/12/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Notes and Definitions

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

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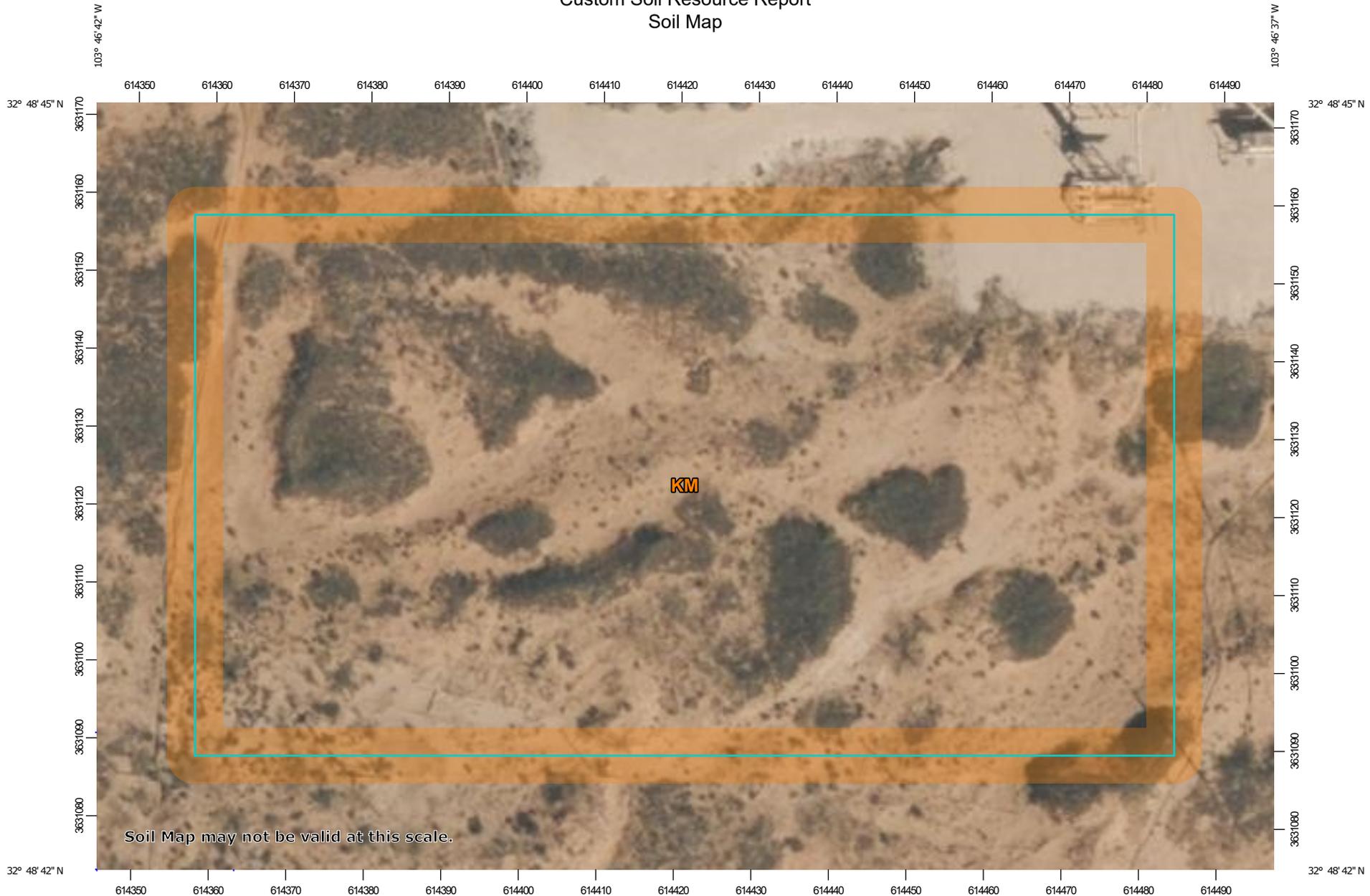
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>ConocoPhillips</u> Project Manager: <u>Christina Lull</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>212C-MD-02689</u> Project Owner: _____ Project Name: <u>MCA Battery 2 Releases</u> Project Location: <u>Lee County, NM</u> Sampler Name: <u>Christina Bekerker</u> FOR LAB USE ONLY		BILL TO P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Lull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H220498</u> Sample I.D. _____ 1 <u>AA1 (8-9)</u> 2 <u>AA-1 (11-12)</u> 3 <u>AA-T-6 (5-6)</u> 4 <u>AA-T-6 (7-8)</u> 5 <u>AA-T-5 (5-6)</u> 6 <u>AA-T-5 (7-8)</u> 7 <u>AA-T-1 (7-8)</u> 8 <u>AA-T-1 (9-10)</u> 9 <u>AA-T-16 (10-11)</u> 10 <u>AA-T-16 (12-13)</u>		(G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ MATRIX: SOIL <input checked="" type="checkbox"/> OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE <u>3/19/22</u> TIME _____ ANALYSIS REQUEST: TPH <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/>	
Relinquished By: <u>Christina Bekerker</u> Date: <u>3/19/22</u> Time: <u>1545</u>		Received By: <u>Christina Lull</u> Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <u>23.6</u> Corrected Temp. °C <u>23.1</u>		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: _____ (Initials) Turnaround Time: _____ Thermometer ID #113 Correction Factor -0.5°C Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition Observed Temp. °C _____ Corrected Temp. °C _____	
REMARKS: <u>Christina.Lull@tetratech.com</u>			

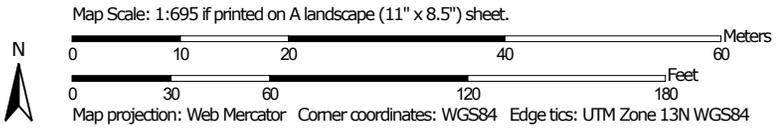
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsm.com

APPENDIX G NMSLO Seed Mixture Details

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

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

Background

 Aerial Photography

MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

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

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

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

Soil Survey Area: Lea County, New Mexico
 Survey Area Data: Version 18, Sep 10, 2021

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

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

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	2.2	100.0%
Totals for Area of Interest		2.2	100.0%

Map Unit Descriptions

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

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

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

Custom Soil Resource Report

Lea County, New Mexico**KM—Kermit soils and Dune land, 0 to 12 percent slopes****Map Unit Setting**

National map unit symbol: dmpx
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R042XC022NM - Sandhills
Hydric soil rating: No

Custom Soil Resource Report

Description of Dune Land

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

SLO Seed Mix

SM Series

1 REVEGETATION PLANS

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

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

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

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



NMSLO Seed Mix

Deep Sand (DS)

1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

CP2 – Sandy Plains, Sandhills, Deep Sand, Shallow Plains

HP3 – Loamy Sand, Sandy Plains, Sandhills, Deep Sand

SD3 – Loamy Sand, Deep Sand, Sandhills, Salt Meadow

Soil Texture: Fine Sand, Sand, Course Sand

Revegetation Procedures:

I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

1. **Soil Amendments:** Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
2. **Fertilize:** Type 2
3. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
4. **Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:**
 - a. Scarify
 - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
5. **Drill Seed** – use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
6. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
7. **Crimp**
8. **Tackify** – tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
9. **Wind Fence** – Install wind fence.



NMSLO Seed Mix**Deep Sand (DS)****DEEP SAND (DS) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D
Total PLS/acre		17	

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

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



NMSLO Seed Mix

Deep Sand (DS)



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 101732

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 101732
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.	5/20/2022