

June 14, 2023

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

Re: Release Characterization, Remediation, and Closure Report ConocoPhillips Heritage Concho Ushanka Federal Com #023H Flowline Release Unit Letter C, Section 01, Township 26 South, Range 35 East Lea County, New Mexico Incident ID# NAPP2309431095

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from a flowline associated with the Ushanka Federal Com #023H (API# 30-025-44505). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 01, Township 26 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.078571°, -103.322728° as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release occurred from a hole in the flowline due to pressure build up, and was discovered on March 26, 2023. Approximately 0.75 barrels (bbls) of crude oil and 6.75 bbls of produced water were reported released. The provided spill calculator indicates a footprint of approximately 1,690 square feet of impacted area. Following discovery of the release, ConocoPhillips repaired the line. This release extent was verified based on information provided by ConocoPhillips representatives, a review of photographs and observations made during a site visit at the release area on April 26, 2023. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on March 26, 2023. The NMOCD Incident ID for this release is NAPP2309431095.

LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). Following the release, Tetra Tech requested BLM clearance to remediate via email. The BLM cleared the Site for remediation activities via email, following a desktop review conducted by Shelly Taylor of the BLM. Email correspondence with the BLM is included in Appendix B.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. The search radius was expanded and based on available data

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from five (5) water wells located with 1.5 miles (2,414 meters) of the site with an average depth to groundwater of 240 feet below ground surface (bgs). The site characterization data are presented in Appendix C.

REGULATORY FRAMEWORK

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

Due to the lack of depth to groundwater data within 0.5-mile of the Site, the most stringent RRALs from Table I of 19.15.29.12 NMAC will be applied to the Site. Hence, the proposed RRALs for the Site are as follows:

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

SITE ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech personnel were onsite to delineate and sample the release area on April 26, 2023. A total of nine (9) soil borings (HA-1 through HA-9) were installed using a hand auger within and around the release to evaluate the vertical and horizontal extents. HA-1, HA-2, and HA-3 were installed within the release extent to assess the vertical extent of impact. The remainder of the borings were installed around the perimeter of the release footprint to delineate the horizontal extent. Photographic documentation of site conditions during assessment activities is included in Appendix D. The boring locations are shown on Figure 4.

A total of sixteen (16) samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal). The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Results from the April 2023 soil sampling event are summarized in Table 1. Analytical results associated with boring location HA-1 and HA-3 exceeded the proposed Site RRALs for chloride in soils. All other analytical results from the April 2023 sampling were below Site RRALs. Both horizontal and vertical delineation of the release area footprint were achieved.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

In accordance with 19.15.29.12 B (2) NMAC, COP elected to begin remediation of the impacted area in May 2023. Based on the analytical results from the soil assessment, impacted soils were excavated to a depth of 1.5 feet below surrounding grade. From May 22 to May 24, 2023, Tetra Tech personnel were onsite to supervise the remedial activities, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on May 22, 2023, the NMOCD district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix B.

Impacted soils were excavated as shown in Figure 5. Impacted soils within the vicinity of the subsurface lines which intersect the release footprint were excavated to a depth of 1.5 feet below surrounding grade via hydro-excavation. Excavation work continued until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. All excavated material was transported offsite for proper disposal. Approximately 127 cubic yards of material were

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ConocoPhillips

transported to the North Delaware Basin Landfill in Jal, New Mexico. Copies of the waste tickets are included in Appendix F.

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remedial activities. In accordance with 19.15.29.12(D)(1)(b) NMAC, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 200 square feet of excavated area. A total of four (4) confirmation floor samples and five (5) confirmation sidewall samples were collected during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations are indicated in Figure 5.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO, DRO and ORO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500CI-B. The analytical results were directly compared to the Site RRALs and reclamation requirements for soils above 4 feet bgs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH and BTEX. The results of the May 2023 confirmation sampling event are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix G. The total remediated area encompassed a surface area of approximately 1,800 square ft. The impacted surface area at the site was remediated to meet the standards of Table I of 19.15.29.12 NMAC.

RECLAMATION ACTIVITIES

Once confirmation sampling activities were completed and associated analytical results were below the RRALs, the excavated areas were backfilled with clean material to surface grade. The backfilled areas were seeded in May 2023 to aid in revegetation. Based on the location of the Site, the BLM seed mixture for LPC Sand/Shinnery Sites (Appendix H) was used for seeding and planted in the amount specified in the pounds pure live seed per acre. Photographic documentation of the excavated areas prior to and immediately following placement of backfill and seeding are provided in Appendix D.

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 BLM 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.

CONCLUSION

ConocoPhillips has completed remediation at the release site. This final closure report has been submitted within 90 days of discovery of the release. This final closure report details the release characterization and remediation activities and the results of the confirmation sampling. ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remedial activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 338-2861.

Sincerely, **Tetra Tech, Inc.**

Christian M. Llull, P.G. Program Manager

cc: Mr. Jacob Laird, GPBU – ConocoPhillips Ms. Shelly Taylor, BLM Closure Report June 14, 2023

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Site Location/Topographic Map

Figure 3 – Approximate Release Extent and Initial Response

Figure 4 – Site Assessment

Figure 5 – Remedial Activities and Confirmation Sampling

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Table 2 – Summary of Analytical Results – Confirmation Sampling

Appendices:

Appendix A – C-141 Forms

Appendix B – Regulatory Correspondence

Appendix C - Site Characterization Data

Appendix D – Photographic Documentation

Appendix E – Analytical Laboratory Data - Assessment

Appendix F – Waste Manifests

Appendix G – Analytical Laboratory Data – Remediation

Appendix H – BLM Seed Mix

ConocoPhillips

FIGURES





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TABLES

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- NAPP2309431095 CONOCOPHILLIPS USHANKA FEDERAL COM 23H FLOWLINE RELEASE LEA COUNTY, NM

									BTEX	2								т	PH ³		
Sample ID	Sample Date	Sample Depth	epth Chlorid		Benzer		Toluer	20	Ethylben	2000	Total Xyl	0005	Total B	rev	GRO		DRO		EXT DI	RO	Total TPH
Sample ID	Sample Date				Denzene		Tolder	Tonuclic		Langibenzene		Total Aylenes		TOTAL DIEX		10	> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		0-1	1,870		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.2		<10.0		13.2
HA-1	4/26/2023	2-3	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14.7		<10.0		14.7
	1/20/2025	3-4	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		0-1	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-2	4/26/2023	2-3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		0-1	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		37.5		<10.0		37.5
HA-3	4/26/2023	2-3	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-4	4/26/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-5	4/26/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-6	4/26/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-7	4/26/2023	0-1	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-8	4/26/2023	0-1	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-9	4/26/2023	0-1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

ft. Feet

Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements. Shaded rows indicate intervals removed during remedial activities.

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons GRO Gasoline range organics

GRO Gasoline range organics DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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TABLE 2 SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NAPP2309431095 CONOCOPHILLIPS USHANKA FEDERAL COM 23H FLOWLINE RELEASE LEA COUNTY, NM

					BTEX ²										TPH ³						
Sample ID	Sample Date	Sample Depth	Chlorid	Chloride1		Benzene		Toluene		zene	Total Xvl	Total Xylenes		Total BTEX			DRO		EXT D	RO	Total TPH
Sample ID	Sample Date				Denzer		Totaci		Ethylben		Total Xy		Total D		C ₆ - C ₁	.0	> C ₁₀ - 0	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
NSW-1	5/22/2023	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
NSW-2	5/22/2023	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-1	5/22/2023	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-1	5/22/2023	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
WSW-1	5/22/2023	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-1	5/22/2023	1.5	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-2	5/22/2023	1.5	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-3	5/22/2023	1.5	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-4	5/22/2023	1.5	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

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ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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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	NAPP2309431095
District RP	
Facility ID	fAPP2203453585
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	217817			
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482			
Contact email	Jacob.Laird@ConocoPhillips.com Incident # (assigned by OCD) NAPP2309431095					
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701					

Location of Release Source

Latitude <u>32.0785</u>

-103.3226

(NAD 83 in decimal degrees to 5 decimal places)

Site Name		Ushanka Fe	deral Com 02	23H	Site Type	Flowline
Date Release	Discovered	March 26, 2	2023		API# (if applicable)	
Unit Letter	Section	Township	Range		County	

Unit Letter	Section	Township	Range	County
С	01	26S	35E	Lea

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 0.7531	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 6.7775	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Contraction CD allocation	•	· · · · · · · · · · · · · · · · · · ·

Cause of Release

The release was caused by a hole in a flowline due to built up pressure.

The release was off the pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico Oil Conservation Division

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Incident ID	NAPP2309431095
District RP	
Facility ID	fAPP2203453585
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?							
release as defined by								
19.15.29.7(A) NMAC?								
19:13:29:7(11) 100110:								
🗌 Yes 🔳 No								
If YES, was immediate ne	If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?							
Initial Despense								

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

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 Brittany N. Esparza	Title: Environmental Technician
Signature:	Date: <u>4/4/2023</u>
OCD Only	
Received by: <u>Jocelyn Harimon</u>	Date:04/04/2023

Mapped Area (sq. ft.)	Average Depth (in.)	On/Off Pad	Percentage of Oil if Spilled Fluid is a Mixture (%.)	Soil Spilled-Fluid Saturation	Total Estimated Volume of Spill (bbl.)	Total Estimated Volume of Spilled Oil (bbl.)	NAPP2309431095 Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
1690	2	Off-Pad ✓	10%	15.02%	7.5305	0.7531	6.7775

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

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			Facility ID	
			Application ID	
regulations all operators are red public health or the environmen failed to adequately investigate addition, OCD acceptance of a and/or regulations.		Title:	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by: Jocely	n Harimon	Date: 06/2	20/2023	

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Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following a	items must be included in the closure report.											
A scaled site and sampling diagram as described in 19.15.29.11 NMAC												
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)												
Laboratory analyses of final sampling (Note: appropriate OD	Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)											
Description of remediation activities												
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in											
Printed Name:	Title:											
Signature: Jacob Laird	Date:											
email:												
OCD Only Received by: Jocelyn Harimon	Date:06/20/2023											
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.											
Closure Approved by:	Date: 09/18/2023											
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv											

APPENDIX B Regulatory Correspondence

Poole, Nicholas

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Tuesday, May 23, 2023 9:15 AM
То:	Poole, Nicholas
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] Incident ID: NAPP2309431095- Confirmation Sampling

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

Nicholas,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Poole, Nicholas <NICHOLAS.POOLE@tetratech.com>
Sent: Monday, May 22, 2023 3:36 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Incident ID: NAPP2309431095- Confirmation Sampling

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

Incident ID (n#) NAPP2309431095 (Ushanka Federal Com 23H)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities of the release will begin Tuesday, May 23, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling of the release will be conducted at this site Wednesday afternoon, May 24, 2023.

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Nicholas Poole | Staff Geoscientist Mobile +1 (512) 560-9064 | <u>nicholas.poole@tetratech.com</u>

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. <u>Read more</u>



From:	Taylor, Shelly J
То:	Llull, Christian
Subject:	Re: [EXTERNAL] PBU - Ushanka Federal Com 23H - Site Assessment and Hydrovac SOW
Date:	Friday, May 05, 2023 1:15:47 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	image005.png
	Outlook-ossek5c3.png

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

You are cleared to proceed with remedial activities. I will get you the PBPA cost for this site.

Sincerely,

Shelly J'Taylor

Environmental Protection Specialist Realty - Compliance

Bureau of Land Management/Carlsbad Field Office 620 E. Greene St Carlsbad, NM 88220 Direct 575.234.5706 Mobile 575.499.6831 sjtaylor@blm.gov

Spill/Release email: BLM_NM_CFO_REALTY_SPILL@BLM.GOV

PLEASE NOTE: I have a new email address: sjtaylor@blm.gov



From: Llull, Christian <Christian.Llull@tetratech.com>
Sent: Friday, May 5, 2023 11:24 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Subject: [EXTERNAL] PBU - Ushanka Federal Com 23H - Site Assessment and Hydrovac SOW

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

Shelly, can you clear this release site for remediation?

BACKGROUND

- According to the State of New Mexico C-141 Initial Report, on March 26, 2023 a release occurred as a result of a hole in a flowline due to built up pressure. The release consisted of approximately 0.7531 bbls of oil and 6.7775 bbls of produced water, of which none were recovered.
 - The release reportedly affected a 1690 square feet of pasture and pipeline right of way.
 - The NMOCD approved the initial C-141 on April 4, 2023 and subsequently assigned the release the Incident ID NAPP2309431095.

Christian

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APPENDIX C 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.)	beer O=o	POD has n replace rphanec ne file is ed)	ed, I, (•					2=NE 3 st to lar	3=SW 4=SE) gest) (NA) AD83 UTM in me	eters)	(In feet)	
POD Number	Cod	POD Sub- le basin			Q 16	-	Sec	Tws	Rng	Х	Y	Distance	-	Depth Water	Water Column
CP 01170 POD1		СР	LE	3	3	3	06	26S	36E	659282	3548984 🌍	1701	500	280	220
CP 01170 POD1	С	СР	LE	3	3	3	06	26S	36E	659282	3548984 🌍	1701	500	280	220
CP 01263 POD3		СР	LE	4	1	3	06	26S	36E	660038	3549729 🌍	1852	516	240	276
CP 01920 POD1		СР	LE	4	3	4	31	25S	36E	660282	3550531 🌍	1985	101		
CP 01267 POD1		СР	LE	3	4	3	06	26S	36E	659759	3548807 🌍	2140	585	200	385
											Avera	ge Depth to	Water:	250	feet
												Minimum	Depth:	200	feet
												Maximum	Depth:	280	feet
Record Count: 5															

UTMNAD83 Radius Search (in meters):

Easting (X): 658301.96

Northing (Y): 3550375.55

Radius: 2400

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.

OCD Karst Potential Map



4/18/2023, 8:36:36 AM Karst Occurrence Potential



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

•

OCD Waterbodies Map



4/18/2023, 8:48:52 AM

OSE Streams





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APPENDIX D Photographic Documentation



TETRA TECH, INC.	DESCRIPTION	Facing north. Spill release and extent.	2
PROJECT NO. 212C-MD-03087	SITE NAME	Ushanka Federal Com 23H Flowline Release	4/26/23










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APPENDIX E Analytical Laboratory Data – Assessment



May 02, 2023

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: USHANKA FED. COM 23H

Enclosed are the results of analyses for samples received by the laboratory on 04/27/23 12:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 1 (0-1') (H232071-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/28/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1870	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	191	95.3	200	2.29	
DRO >C10-C28*	13.2	10.0	04/28/2023	ND	172	86.0	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 1 (2'-3') (H232071-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/28/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	191	95.3	200	2.29	
DRO >C10-C28*	14.7	10.0	04/28/2023	ND	172	86.0	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 1 (3'-4') (H232071-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/28/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 1 (4'-5') (H232071-04)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/28/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 2 (0-1') (H232071-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/29/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 2 (2'-3') (H232071-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/29/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 2 (3'-4') (H232071-07)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/29/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 3 (0-1') (H232071-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/29/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	37.5	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	127 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 3 (2'-3') (H232071-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/29/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 3 (3'-4') (H232071-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.68	84.1	2.00	16.0	
Toluene*	<0.050	0.050	04/29/2023	ND	1.92	95.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.18	109	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.47	108	6.00	15.9	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 4 (0-1') (H232071-11)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.1	2.00	11.0	
Toluene*	<0.050	0.050	04/29/2023	ND	2.20	110	2.00	10.6	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.55	128	2.00	11.7	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	7.77	129	6.00	11.5	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 5 (0-1') (H232071-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.1	2.00	11.0	
Toluene*	<0.050	0.050	04/29/2023	ND	2.20	110	2.00	10.6	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.55	128	2.00	11.7	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	7.77	129	6.00	11.5	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 6 (0-1') (H232071-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.1	2.00	11.0	
Toluene*	<0.050	0.050	04/29/2023	ND	2.20	110	2.00	10.6	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.55	128	2.00	11.7	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	7.77	129	6.00	11.5	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	140 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 7 (0-1') (H232071-14)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.1	2.00	11.0	
Toluene*	<0.050	0.050	04/29/2023	ND	2.20	110	2.00	10.6	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.55	128	2.00	11.7	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	7.77	129	6.00	11.5	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 8 (0-1') (H232071-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.1	2.00	11.0	
Toluene*	<0.050	0.050	04/29/2023	ND	2.20	110	2.00	10.6	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.55	128	2.00	11.7	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	7.77	129	6.00	11.5	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/27/2023	Sampling Date:	04/26/2023
Reported:	05/02/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03087	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: HA - 9 (0-1') (H232071-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.1	2.00	11.0	
Toluene*	<0.050	0.050	04/29/2023	ND	2.20	110	2.00	10.6	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	2.55	128	2.00	11.7	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	7.77	129	6.00	11.5	
Total BTEX	<0.300	0.300	04/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/28/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	167	83.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	166	82.8	200	23.1	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM (575) 393-2326 FAX (575) 39						Strates	開制	itsp	TENSIAN I												
Company Name	: Tetra Tech						Т	-	B	ILL TO			_		ANA	LYSI	S REC	UES	т			 -
Project Manager	: Christian Llull						F	P.O. #:	:			-	1	1	1	1	T	T		T	1	 -
Address: 8911 C	apital o Texas Hwy, Suite 2310							Compa	anv: Te	etra Tech		-										
City: Austin	State: 1	TX Zi	p:	-			_			an Llull		-										
Phone #:	(512)565-0190 Fax #:			-			_	_	ss: EM			-										
Project #:	212C-MD-03087 Project Owner:			C		NI. 111	_	City:	55. LIM			-				i						
	shanka Fed. Com 23H			U	onocol	nillij	_	State:		-		_										
	: Lea County, New Mexico						-			Zip:				-12								
							_	hone	#:	_				15								
FOR LAB USE ONLY	Colton Bickerstaff						F	ax #:						SM4500CI-B								
Lab I.D.					MA	ATRIX	-	PRE	SERV.	SAMP	LING		-	45								
423,207		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	OTHER .	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SN			ŝ.					
	HA-1 (0-1')	G	1		X				X	4/26/2023		X	X	X								1
	HA-1 (2'-3')	G	1		X				X	4/26/2023		X	X	X								1
	HA-1 (3'-4')	G	1		X				X	4/26/2023		X	X	X								t
	HA-1 (4'-5')	G	1		X				Х	4/26/2023		X	X	X			`					1
	HA-2 (0-1')	G	1		X	11	_	+ +	X	4/26/2023		X	X	X								 t
	HA-2 (2'-3')	G	1		X			+ +	X	4/26/2023		X	Х	X								T
	HA-2 (3'-4')	G	1		X				X	4/26/2023		X	Х	X								t
	HA-3 (0-1')	G	1		X			++	Х	4/26/2023	2	X	Х	Х								t
	HA-3 (2'-3')	G	1		X				X	4/26/2023		X	Х	X								t
	HA-3 (3'-4') mages. Cardinal's liability and client's exclusive remedy for any claim arising who in incidental or consequential damages. Inclusion without limitation, husing	G	1		X				X	4/26/2023	-	X	Х	X								t

event shall Cardinal be lable for incidental or consequential damages, including without immation, whereas interruptions, loss of user, to use an outmate the solution of profits incurred by client, its subsidiaries, atfliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Colton Bickerstaff	Date: 4/27/23	Received By:		Verbal Result:	Add'I Phone #: address: Christian.Llull@tetratech.com
Relinquished By:		Received By:	J	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. *C Corrected Temp. *C	Sample Condition Cool Intact Pres Pres No No	70	Turnaround Time: Standard S Bscteria (only) Sampla Rush: NA, Standard TAT Cool Intact Observe Thermometer ID #113 Correction Factor -0.5°C	e Condition 1d Temp. "C Yes Yes NoNoCorrected Temp. "C

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

Received by OCD: 6/19/2023 8:56:48 AM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

vectors by Other Calding is bable for independence and any other sectors in the provide in a sector of the applicable service. In no event shall Calding those for negligence and any other cause whatsover shall be deemed valued unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no artifiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated researces or therwise.

Relinquished By: Colton Bickerstaff	Date: 4/27/23	Received By:		Verbal Result:	Id'I Phone #: Idress: Christian.Llull@tetratech.com
Relinquished By:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact	40.	Turnaround Time: Standard Dacteria (only) Sample Co Rush: N/A, Standard TAT Cool Infact Observed Te Thermometer ID #113	
FORM-006 R 3.2 10/07/21				Correction Factor -0.5°C	No No Corrected Temp. "C

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

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APPENDIX F Waste Manifests

Received by OCD: 6/19/2023 8:56:48 AM



· ·	WE1GH			
×	Ticket	t # 171	615	t.
S	art:05/22	2/2023	04:31 PM	
E	nd:05/22/	/2023 0	5:35 PM	00.000
		owl.an	У	
GROS S	TARE	NET	FRICE	AMO JNT
Contaminated			New York	
C5	00	05	\$0.01	\$0.05
Hauler: McNab				
Driver: Isaia				
.ease: Ushank ∀ell: 23H	a rea con	0	ŧ	1 - Westerl
AFE #: N/A	•	1		
County, State	· LEA (NB	6		1.00111.03
API #: 300254		12		-
Manifest 4: (
Client Compar		drew G	arcia	
lig Name & Nu				
Frucking Co 1				
Fruck Type: H		-12		
JOM: CuYd	v.		8	
OM Court: 5				
F Test Resul				
425 Test: Pas	s			
DC Tacting	DACO			
H2S Testing → C1	00	01	\$0.00	\$0.00
6.1		U1	40.00	\$0.00
	÷ :			
aint Filter	- PASS			
C1	00	01	\$0.00	\$0.00
			0 929 929	• • • • • • •
IORM - FASS				
C1	00	01	\$0.00	\$0.00
				S .
	en e			
Additional Ph		A 4	00.00	** **
C1	00	UI	\$0.00	\$0.00
	1		\$0.01	\$0.05
			40.01	\$0.00
			SUBTOTAL	> \$0.05
				> \$0.00
				> \$0.00
				> \$0.05
1 A				
aper 1				
ustane : Con	ocoPhilli	os Com	0.861	

ye.

è

Customer Copy

	S	WE16 Ticke tart:05/2 End:05/23	t # 17 1 3/2023	751 11:28 AM	
			cwl.ada		
65	ROSS				AMO JNT
Contai	ninated				
		00	16	\$0.01	\$0.16
	: McNa				
uriver	1: Josh	Busby			
Well:		ka Fed Co	n:		
AFE #:					
		e: LEA (N	M)		
	: 30025		en j		
	ist ‡;				
		ny Mant A	ndrew G	arcia	
		umber: N/		arota	
		Ticket #:			
		Dump True			
UOM: 3		e ande i rises			
	urt: 1	6			
		lt: Pass			
	st: Pa				
H2S Te	esting				
	01	00	01	\$0.00	\$0.00
Caint	Cilder	- PASS			
0100		00	01	\$0.00	¢0.00
	52.1	00	01	4.0.00	\$0.00
NORM -	FASS				
	61	00	01	\$0.00	\$0.00
Additi	ional P		01	40.00	m 0 c0
	01	00	01	\$0.00	\$0.00
	20			\$0.01	\$0.16
				CHETOTAL	> 00 10
				SUBTOTAL	
				RELINDING	-> \$0.01
				TOTAL	
				TUTAL	->

NO.



	IGHT TICKE							
	ket # 1 717							
	5/23/2023 1							
End:05/23/2023 11:42 AM								
GROSS TARE	By:cwl.adan		AMO JNT					
UNUGS TARE	INC. I	PRICE	APO JA I					
ontaminated Soil		and a first second second second						
16 00	16	\$0.01	\$0.16					
auler: McNabb								
river: Lumer Rdz								
ease: Lishanka Fed	Com							
/e11: 023H								
FE #: N/A								
ounty, State: LEA	(NM)							
PI #: 0002544505								
anifest ‡: 03								
lient Company Man	: Andrew Ga	rcia						
ig Name & Number:								
rucking Ca Ticket	#: N/A							
ruck Type: Dump Tr								
IOM: Curd								
IOM Court: 16								
7 Test Result: Pas	35							
123 Test: Pass								
2S Testing - PASS								
(1 00	01	\$0.00	\$0.00					
	0.1	4.61.00	*****					
Paint Filter - PAS		40.00						
C1 00	01	\$0,00	\$0.00					
NORM - PASS								
61 00	01	\$0.00	\$0.00					
		4.01.00	40.00					
Additional Photos	A.2	40.00	AA AA					
C1 00	01	\$0.00	\$0.00					
20		\$0.01	\$0.16					
to, the		40101	grova 110					
		SUBTOTAL	> \$0.16					
		TAX	> \$0.01					
			> \$0.00					
		TOTAL	> \$0.17					

de-

Customer Capy

WEIGHT TICKET Ticket # 171778 Start:05/23/2023 01:05 PM End:05/23/2023 01:11 PM By:cwl.adan TADE NET FRICE AMOJNT						
GROSS	TAR	E	NET	FI	RICE	INCOMA
1.44	4	l 00	14	ġ	0.01	\$0.14
Hauler: McN Driver: Jos	abo h Bus	by				
Lease: Usha	nka F	ad Com				
Well: 023H AFE #: N/A						
County, Sta	ate: l	FA (NM	4)			
API #: 2000	254450	05				
Manifest # Client Com	; 04 pany	Mant Al	ndrew	Gari	ia	
Did Mame &	Numb	er: N/	e.			
Trucking C Truck Type	o Tic	ket #:	N/A			
UOM: Curd	r; bui	ip mas				
LIDM Court:	14					
PF Test Re	Bach	: Pass				
H2S Test:	Pass					
		0100			and Constants	
H2S Testi C1		PASS 00	(1	\$0.00	\$0.0
61						
	-	0400				
Paint Fil		- PASS		01	\$0.00	\$0.0
E comme E	100					
NORM - P		00		01	\$0.00	\$0.0
8						
	1. 54	- Anna				
Addition C		00		01	\$:0.00	\$0.
					100	
	18			The:	\$0.01	\$0.
	1.5				NATE AND	-
	also.		A Street		SLETOTAL	30.
Par la car	AT ALL				RCENDENG	
					TAL RA	
			Contra states	the liter		
the second second		and the state of the				

Released to Imaging: 9/18/2023 2:31:50 PM

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WEIGHT TICKET Ticket # 171780 Start:05/23/2023 01:18 PM End:05/23/2023 01:26 PM By:owl.adan						
GROSS T	ARE	NET	FRICE	AMOJNT		
Contaminated Sc	nil					
	00	16	\$0.01	\$0.16		
lauler: McNabb	da					
Driver: Lumer F Lease: Lshanka						
reasa. Cshanka Mell: 023H	1.60 0.000					
AFE #: N/A						
County. State:	LEA (NM)				
API #: 3002544						
Manifest ∦: 05						
Client Company			rcia			
Rig Name & Num	ber: N/A	i a se				
Trucking Co Ti	cket #:	N/A				
Truck Type: Du	mp truck	M36				
UOM: CuYd						
UOM Court: 16 PF Test Result	· Docc					
H2S Test: Pass						
120 1351, 1003						
H2S Testing -	PASS					
C.1	00	01	\$0.CO	\$0.00		
Paint Filter -	- PASS					
C1		01	\$0.00	\$0,00		
NORM - PASS						
0.1	00	01	\$0.00	\$0,00		
U I						
	otos					
Additional Ph Cl	otos 00	01	\$0.00	\$0.00		
Additional Ph Cl		01		and a constant of the state of the state		
Additional Ph		01	\$0.01	\$0.16		
Additional Ph Cl		01	\$0.01 SUETOTAL	\$0.16		
Additional Ph Cl		01	\$0.01 SUETOTAL TAX	\$0.16 > \$0.16 > \$0.01		
Additional Ph Cl		01	\$0.01 SUETOTAL TAX ROUNDING	\$0.16 > \$0.16 > \$0.01 > \$0.00		
Additional Ph Cl		01	\$0.01 SUETOTAL TAX ROUNDING	\$0.16		

Driver: Karen Work ID/Liperce: Received by OCD: 6/19/2023 8:56:48 AM

	4 :C5 PM 14 PM				
GROSS	TARE	y:cwl.a NE	T	FRICE	AMO JNT
Contaminate 14 Hauler: McH	00		4		\$0.14
Driver: Jos Lease: Ush Well: 023H AFE #: N/A	sh Busby anka Fed				
County, St API #: 300 Manifest # Client Com	2544505 : 06		v üa	cia	
Rig Name & Trucking C Truck Type	Number: o Ticket	N/A #: N/A			
UOM: CuYd UOM Court: PF Test Re H2S Test:	14 sult: Pa				
H2S Testin C1	ng - PASS OC		01	\$0.00	\$0.00
Paint Fil C1			01	\$0.00	\$0.00
Norm - Pa		44	01	*0.00	\$0.00
C1	0	U	01	\$0.00	φ0.00
Additiona C1			01	\$:0.00	\$0.00
		144-16-16 (11) (11 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1			- (A construction of the states)
1	3			\$0.01	\$0.14
				TAX	> \$0.14 > \$0.01
				RCUNDING - TOTAL	> \$-0.00 > \$0.15
		nL 211 2	o. D.:	11	••••••••••••••••••••••••••••••••••••••
Customer Driver:	: Conoco Karen Wo	rni II ip rk	5 60	nuber A	
ID/Liper					

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Customer Copy

WEIGHT TICKET Ticket # 171808 Start:05/23/2023 03:23 PM End:05/23/2023 03:33 PM By:owl.judy GBOSS TARE NET FRICE AMOUNT							
GROS	s T	ARE	NET	FRICE	AMO JNT		
auler:	6 McNabb	00	16	\$0.01	\$0.16		
>river: .ease: L Vell: O2 AFE #: N	shanka 3H	dz Fed Com					
County, API #: C Manifes	State: 0025449 t #: 07			vela			
Rig Namo Trucking Truck T	: & Num ; Co Ti ype: Du	Man: An ber: N/A cket #: mp Truck	N/A	rcia			
UOM: Cu UOM Cou PF Test H2S Tes	rt: 16 Result						
H2S Tes	ting – Cl	PASS 00	01	\$0.00	\$0.00		
Paint F	ilter -				40.00		
	61	00	01	\$0.00	\$0.00		
NORM -	PASS C1	00	01	\$0.00	\$0.00		
Additi	onal Ph C1	otos 00	01	\$0.00	\$0.00		
- 100 and 10 (100 - 100	20			\$0.01	\$0.16		
					> \$0.16 > \$0.01		
				ROUNDING	> \$0.00 > \$0.17		

ID/Liberce:

Customer Copy

WEIGHT TICKET Ticket # 171922 Start:05/24/2023 10:40 AM End:05/24/2023 10:52 AM By:owl.amy							
GROSS		NET	FRICE	AMOUNT			
Contaminate 10	00	10	\$0.01	\$0.10			
Hauler: Mck Driver: Mic Lease: Lsha Well: 023H AFE #: N/A County, Sta	hael Quir nka Fed C	ones om		ψ0.10			
API #: 3002 Manifest #: Client Compa	544505 08	2					
Fig Name & P Trucking Ca Truck Type: DOM: CuYd DOM Court: 1	Number: N, <i>Ticket</i> # Dump Truc O	/A : N/A					
PF Test Resu H2S Test: Pa							
•							
H2S Testing C1	- PASS 00	01	\$0.00	\$0 .00			
Paint Filter C1	- PASS 00	01	\$ 0.00	\$0.00			
NORM - PASS							
C1	00	01	\$0.00	\$0.00			
dditional Ph	otos						
C 1	00	01	\$0.00	\$0.00			
14	19 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		\$0.01	\$0.10			
14		st					
14			ETOTAL TAX	> \$0.10			
14			ETOTAL	-> \$0.10 -> \$0.01 -> \$0.00			
		- FiC	ETOTAL TAX UNDING TOTAL	-> \$0.10 -> \$0.01 -> \$0.00			
14 stomer: Cono iver: Karen	coPnillip Work	- RC	ETOTAL TAX UNDING TOTAL	-> \$0.10 -> \$0.01 -> \$0.00			

10m



	WEIG	HT TICKET		
		t # 17195		
S	start:05/2			
	End:05/24			
	By	:owl.amy		
GROSS	TARE	NET	FRICE	AMO JNT
iontaminated 10	d Soil 00	10	\$0.01	\$0.10
auler: McN	abb Partne	rs		
river: Mic	hael Quino	ries		
ease: Lisha	nka Fed Co	n		
√ell: 023H				
AFE #: N/A	5 73241-932	w.w		
County, Sta		4M)		
API #: 3002				
Manifest ⊭: Client Comp		Androw Co	rcia	
Client Comp Rig Name &	Number N	/A	0.0.1.0	
Trucking Ga	Ticket #	: N/A		
Truck Type:				
UOM: Duyd				
UOM Court:	10			
PF Test Res	sult: Pass			
H2S Test:	ass			
H2S Testin		01	40.00	\$0.00
Ç.1	00	01	\$0.00	φ0.00
			•	
Paint Filt	or - PASS			
	00	01	\$0.00	\$0,00
61	11.52			
NORM - PAS	is			
C1	00	01	\$0.00	\$0,00
Additional	Photos			
C.1	00	01	\$0.00	\$0.00
14			\$0.01	\$0.10
			SUE TOTAL	> \$0.10
				> \$0.0
				> \$0.00
			TOTAL	> \$0.1
Eustoner:	ConocoPh	illios Co	mpany	

Released to Imaging: 9/18/2023 2:31:50 PM

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Received by OCD: 6/19/2023 8:56:48 AM

Start End:	-WEIGHT Ticket # :05/24/2 05/24/20 By:ow	17197 023 02 023 02:	3 :11 38	PM PM	AMO INT
GROSS T	ARE	NET	77	ICE	
Contaminated So 10 Hauler: McNabb	00	10	\$:(0.01	\$0.10
Haller: Michaeb Driver: Michael Lease: Lshanka Well: 023H AFE #: N/A	Quinone	S			
County, State: API #: S002544	505		art	ia	
Rig Name & Num Trucking Co Ti Truck Type: Do UOM: CuYd	iber: N/A icket #:	N/A			
UOM Court: 10 PF Test Resul H2S Test: Pas	t: Pass				
H2S Testing - C1	- PASS 00	01	١	\$ 0,00	\$0.00
Paint Filter Cl	- PASS 00	C	1	\$0.00	\$0.00
NORM - FASS C1	00		01	\$:0.00	\$0.00
Additional C1	Photos 00		01	\$0.00	\$0.00
a set consistent and a fill your setting of a set	in and a second s			\$0.01	\$0.10
14				SUBTOTA	L> \$0.1 X> \$0.0 NG> \$0.0

Customer: Conocornillips company Driver: Karen Work ID/Liberce:

APPENDIX G Analytical Laboratory Data – Remediation



May 23, 2023

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: USHANKA FED. COM 23H

Enclosed are the results of analyses for samples received by the laboratory on 05/22/23 16:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 1 (H232591-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	80.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 2 (H232591-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 1 (H232591-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 1 (H232591-04)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 1 (H232591-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: FS - 1 (H232591-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: FS - 2 (H232591-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/23/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.4	% 49.1-14	8						

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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: FS - 3 (H232591-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	USHANKA FED. COM 23H	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 03087	Sample Received By:	Shari Cisneros
Project Location:	COP - LEA CO NM		

Sample ID: FS - 4 (H232591-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.34	117	2.00	3.31	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.38	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.24	112	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.81	114	6.00	3.01	
Total BTEX	<0.300	0.300	05/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2023	ND	201	101	200	7.18	
DRO >C10-C28*	<10.0	10.0	05/23/2023	ND	179	89.3	200	0.0991	
EXT DRO >C28-C36	<10.0	10.0	05/23/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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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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Received by OCD: 6/19/2023 8:56:48 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240

Company Name: Copoco Phillips	BILL TO	ANALYSIS REQUEST
Project Manager: Christian Unit	P.O. #:	
Address:	Company: Fetre Fech	
City: State: Zip:	Attn: Christian Uny	
Phone #: Fax #:	Address:	
Project #: 2120- MD- 030 \$7 Project Owner:	City:	8
Project Name: WShant Na Ushanka Fed Com 23 H	State: Zip:	4209
Project Location: Les Co, NM	Phone #:	
Sampler Name: Andrew Garcia	Fax #:	Sel
FOR LAB USE ONLY MATRIX		
Δ.W.		
(C)C ATE	Ш Ш Ц ·	
Lab I.D. Sample I.D.		
Tap I'D' Samble I'D' (G)RAB OR (C)OMP # CONTAINERS # CONTAINERS # CONTAINERS # Solu OIL		
/ NSW-1 GI X	X 22 May 900 X X 1 1 930 1 1	<u>× </u>
2 NSW-2	1000	
3 ESW-1	1030	
4 55W-1 5 WSW-1	1030	
10 F3-1	1130	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12.00	
8 FS-3	1230	
9 ES-4	1300 1	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contrac analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and	nd received by Cardinal within 30 days after completion of the applicable	
analyses, All claims including times for hegingence and any other clause models including without limitation, business interruptions service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions affiliates or successors arising out of or related to the performance of services in reunder by Cardinal, regardless of whether such claim	loss of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above stated reasons or otherwise.	
Relinquished By: Date: 5/22/23 Received By:	Verbal Result: 🗀 Yes	No Add'l Phone #: lease provide Email address:
Ander Garrie Time: 35 Shau Cl		Poole @ Tetratech. com
Relinguished By: Date: Received By:	REMARKS:	LINH e Tetrate un. con
Time:	Christian	LINH E TOTALEDING THE
	tion CHECKED BY: Turnaround Time: S	tandard Eacteria (only) Sample Condition
Cool Intact	(Initials)	tandard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other: Corrected Temp. °C S Yes Yes You No		

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

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APPENDIX H BLM Seed Mix

(27)

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	229983
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	9/18/2023

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Action 229983