

November 9, 2022

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

Re: Release Characterization, Site Assessment and Closure Report **ConocoPhillips Company Buck Federal Central Tank Battery Release** Unit Letter O, Section 17, Township 26 South, Range 32 East Lea County, New Mexico Incident ID NAPP2128035834

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to evaluate a release that occurred at the Buck Federal Central Tank Battery (CTB). The release footprint is located in Public Land Survey System (PLSS) Unit Letter O, Section 17, Township 26 South, Range 32 East, in Lea County, New Mexico (Site). The release site coordinates are 32.037538°, -103.696660°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Form C-141 Initial Report (Appendix A), the release was discovered on September 24, 2021. The release occurred as the result of equipment failure, specifically corrosion on a 1-inch plug that leads to a transfer pump. Approximately 7.9 barrels (bbls) of produced water were reported released, of which 3 bbls were recovered. The produced water was released into a partially lined secondary containment. The spill calculator submitted to New Mexico Oil Conservation District (NMOCD) along with the C-141 documented that an area of approximately 1,200 square feet was impacted. Charles R. Beauvais II submitted the initial Form C-141 on October 7, 2021.

NMOCD received this initial Form C-141 same day. The NMOCD Incident ID for this release is NAPP2128035834. COP submitted an extension request for this incident on Thursday, December 30, 2021. The request for an extension to March 30, 2022 was approved by Robert Hamlet via email on January 4, 2022. Regulatory correspondence is included in Appendix B.

C-141 Completeness and Accuracy

The Form C-141 submitted to the NMOCD mistakenly places the Site in PLSS Unit Letter D, Section 30, Township 26 South, and Range 32 East. Additionally, the latitude and longitude given on the Form C-141 (32.021533°, -103.414822°) do not correspond to the Site, rather these coordinates are approximately 16.5 miles to the east. The C-141 included in this submittal has been revised to correct these errors.

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 medium karst potential.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559

Fax 432.682.3946 www.tetratech.com

ConocoPhillips

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within $\frac{1}{2}$ mile (800 meters) of the Site. There are five (5) water wells within 2,000 meters of the site, the nearest being 1,801 meters, with an average depth to groundwater of 240 feet below ground surface (bgs).

As the available water level information was from wells farther than ½ mile away from the Site, COP elected to drill a boring to verify depth to groundwater. On September 27, 2022, a licensed drilling subcontractor was onsite to drill a groundwater determination borehole (DTW) to 55 feet bgs. The borehole was located outside the reported release footprint, on the east side of the lease pad. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 50 feet bgs. The borehole was plugged with 3/8" bentonite chips. The borehole coordinates are approximately 32.037733°, -103.695950°. The site characterization data and boring log are included in Appendix C. The location of the groundwater depth determination boring in relation to the release area footprint is shown on Figure 4.

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 chloride in soil.

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

Constituent	Site RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

INITIAL RESPONSE

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the impacted area in 2021. The interior of the earthen berm (entirety of the footprint of the release) was excavated to approximately 4 feet bgs to remove the visibly impacted soil. The approximate release footprint and initial response area are shown on Figure 3. The initial response area was backfilled with clean material prior to assessment.

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INITIAL SITE ASSESSMENT

Tetra Tech personnel were onsite to delineate and sample the release area on July 20, 2022. A total of three (3) soil borings (AH-1 through AH-3) were installed using a hand auger within the release extent to evaluate the vertical extent of the release. Four (4) trenches were dug using a mini excavator to evaluate the horizontal extent of the release. The boring and trench locations are shown on figure 4.

A total of eleven (11) samples were collected from the sample locations, transferred under chain of custody and analyzed within appropriate holding times by Eurofins-Xenco Environmental Testing (Xenco) in Midland, TX. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via EPA Method 300.0, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D. Photographic documentation of the July 2022 assessment activities is included in appendix E.

Results from the July 2022 soil sampling event are summarized in Table 1. The analytical results demonstrated that the initial response inside the earthen berm was effective and sufficient for remediation purposes. The analytical results associated with the sampling event were below proposed Site RRALs for on-pad releases. Analytical results associated with boring locations AH-2 and AH-3, as well as trench location T-3 exceeded the reclamation standard for chloride of 600 mg/kg at the 4-5', 1-2', and 0-1' depth intervals, respectively. Location T-3 is far outside the reported release extent, and impact noted in this area is not believed to be associated with the subject release. While the release was successfully horizontally delineated to the north, east and south, horizontal delineation to the west and vertical delineation was not obtained during the July 2022 sampling event.

ADDITIONAL SITE ASSESSMENT

Tetra Tech personnel were onsite to complete delineation on September 27 and 28, 2022. A total of two (2) soil borings (BH-1 and BH-2) to depths of 35 and 20 feet bgs, respectively. BH-1 was installed inside the berm to define the vertical extent of the release and to assess the extent of impacted soil. BH-2 was installed west of the containment berm to define the western horizontal extent of the release area.

A total of eighteen (18) soil samples were collected from the two boring locations, transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories in Hobbs, NM. The samples were analyzed for TPH via Method 8015 Modified, chloride via SM4500Cl-B, and BTEX via Method 8021B. Copies of analytical reports and chain-of-custody documentation are included in Appendix D.

All analytical results from the additional site assessment activities were below Site RRALs. The analytical results associated with sample location BH-1 were below the delineation standards in sample depth intervals 29-30' and 34-35'; thus vertical delineation was achieved. The analytical results associated with BH-2 were below the delineation standards and duly completed horizontal delineation of the release area. The results of the September 2022 sampling event are summarized in Table 1. Photographic documentation of the September 2022 assessment activities is included in Appendix E.

SITE RECLAMATION AND RESTORATION PLAN

Based on the site characterization, the remaining soils on the developed production lease pad meet the closure criteria of Table I of 19.15.29.12 NMAC. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, final reclamation of any impact within the lease pad area shall take place once the Site is no longer being used for oil and gas operations. The total remediated area encompassed a surface area of approximately 800 square feet. Collected samples area representative of approximately 200 square feet of remediated area. Remediated area and sample locations are indicated in Figure 4.

ConocoPhillips

Although analytical results associated with the AH-3 (1-2') and T-3 (0-1') exceeded the reclamation requirements used to complete restoration, the remaining contamination is on a developed pad, fully delineated, and does not pose an imminent risk to human health, the environment, or groundwater. Onsite reclamation and restoration will occur once the battery is abandoned, and operations have ceased at this active well pad.

CONCLUSION

Based on the results of the site assessment, ConocoPhillips respectfully requests closure of the incident. All analytical results associated with the site assessment were below proposed Site RRALs; therefore, no further remediation of the on-pad release footprint is required. Although analytical results associated with the collected samples slightly exceed the reclamation RRAL used to complete restoration, the remaining impact is on a developed pad, fully delineated, and does not pose an imminent risk to human health, the environment, or groundwater. The impacted surface area occurring on the developed pad at the site was remediated to meet the standards of Table I of 19.15.29.12 NMAC during the initial response remedial activities.

Based on the above, ConocoPhillips respectfully that NMOCD will consider delaying reclamation activities at the Site until the end of life of the battery. On-site reclamation and restoration shall take place in accordance with 19.15.29.13 NMAC once the battery is abandoned and is no longer being used for oil and gas operations. The final C-141 forms are enclosed in Appendix A.

If you have any questions or comments concerning the assessment activities for this site, please call me at (512) 560-9064.

Sincerely,

Tetra Tech, Inc.

Nicholas M. Poole

Project Lead

Christian M. Llull, P.G. **Project Manager**

Mr. Sam Widmer, RMR - ConocoPhillips Mr. Charles Beauvais, GPBU - ConocoPhillips

ConocoPhillips

List of Attachments

Figures:

Figure 1 – Site Location Map

Figure 2 – Site Location/Topographic Map

Figure 3 – Approximate Release Extent and Initial Response

Figure 4 – Site Assessment

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

Appendix A – C-141 Form

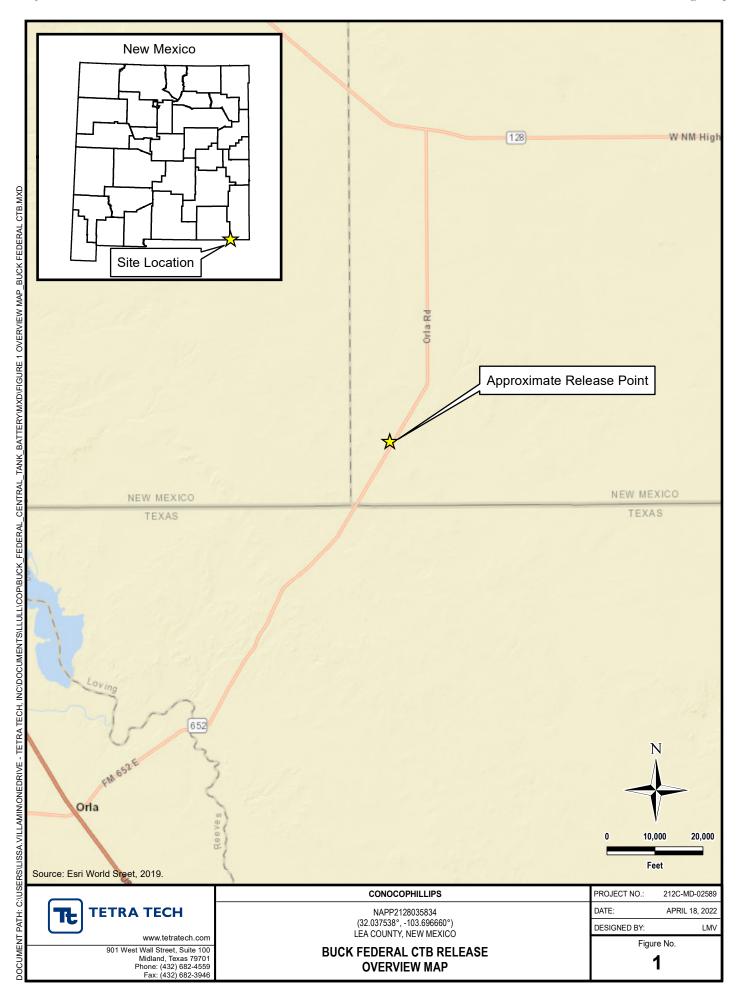
Appendix B – Regulatory Correspondence

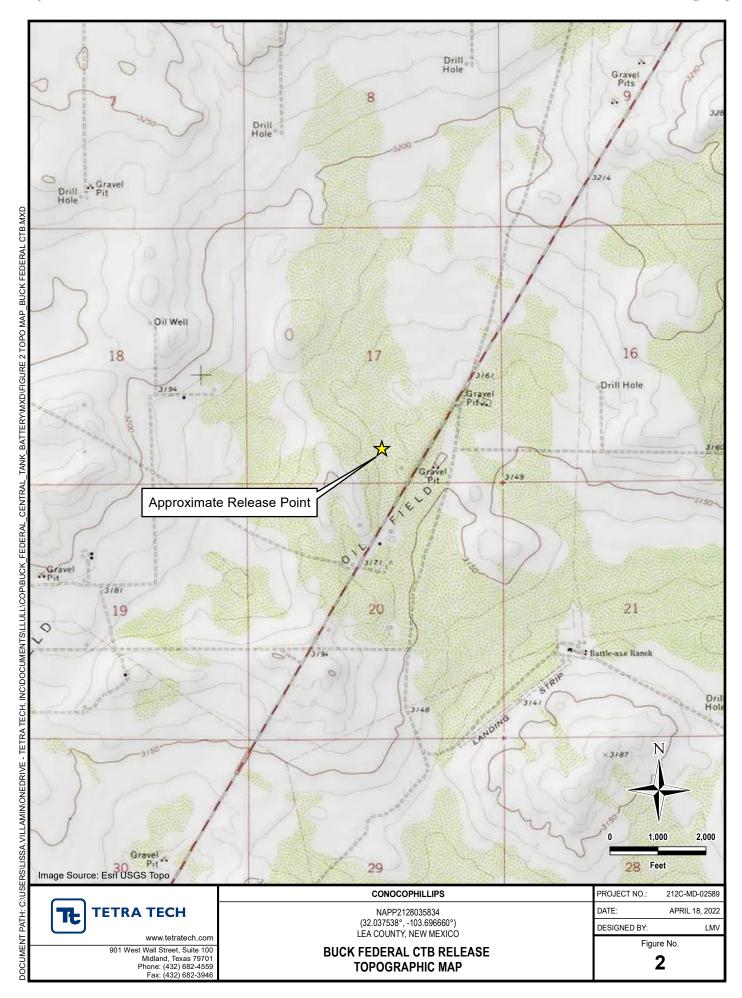
Appendix C - Site Characterization Data

Appendix D – Laboratory Analytical Reports

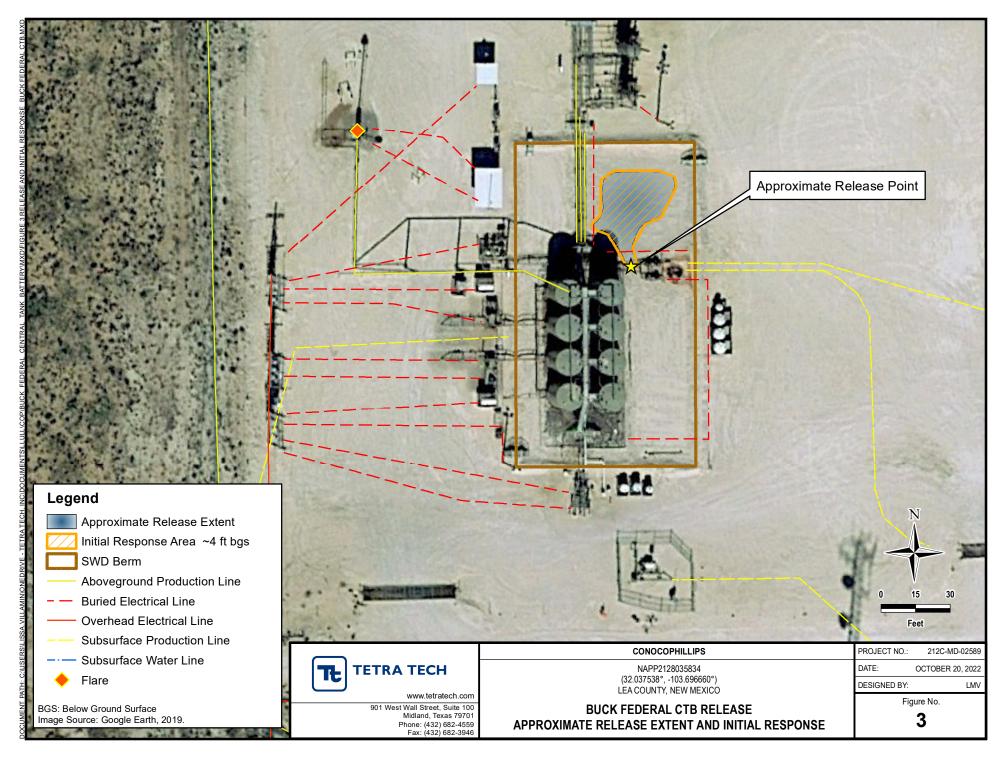
Appendix E – Photographic Documentation

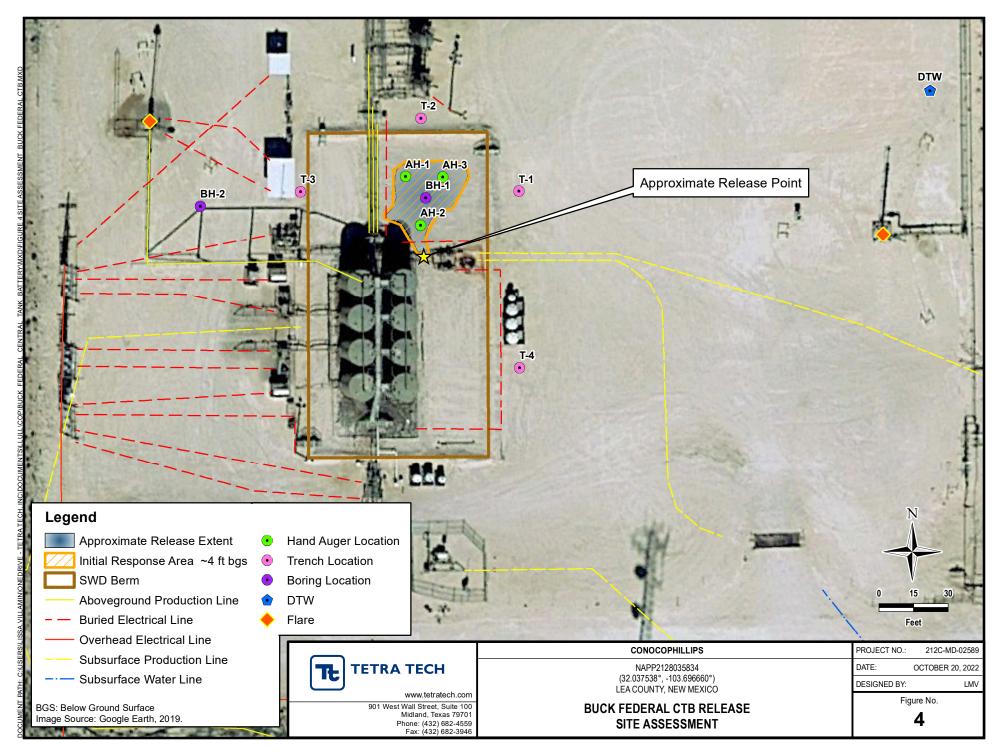
FIGURES





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TABLES

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- NAPP2128035834 CONOCOPHILLIPS BUCK FEDERAL CTB RELEASE LEA COUNTY, NM

40.45.30.43.5544.6.6			(54 400 (1)	Chlorid	les ¹					BTEX	2									TPI	H ³		
19.15.29.12 NMAC C	losure Criteria for Soils	impacted by a Releas	e (51-100 ft):	< 10,000 i	mg/kg	< 10 mg	/kg							< 50 mg	/kg							< 2,500 mg/kg	< 1,000 mg/kg
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results Chlorides	Chlori	de	Benzer	ne	Toluer	ie	Ethylben	zene	Total Xyle	enes	Total B	тех	GRO C ₆ - C		> C ₁₀ - 0		> C ₂₈ -		Total TPH (GRO+DRO+MRO)	GRO+DRO
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
		0-1	-	16.5		< 0.00200		< 0.00200		< 0.00200		< 0.00399		< 0.00399		< 49.9		< 49.9		< 49.9		< 49.9	< 49.9
AH-1	7/20/2022	1-2	-	23.7		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00402		< 49.9		< 49.9		< 49.9		< 49.9	< 49.9
		0-1	-	38.6		< 0.00199		< 0.00199		< 0.00199		< 0.00398		< 0.00398		< 50.0		< 50.0		< 50.0		< 50.0	< 50.0
AH-2	7/20/2022	2-3	-	81.0		< 0.00200		< 0.00200		< 0.00200		< 0.00400		< 0.00400		< 49.9		< 49.9		< 49.9		< 49.9	< 49.9
		4-5	-	1,930		< 0.00200		< 0.00200		< 0.00200		< 0.00401		< 0.00401		< 49.8		< 49.8		< 49.8		< 49.8	< 49.8
		0-1	-	35.7		< 0.00202		< 0.00202		< 0.00202		< 0.00403		< 0.00403		< 50.0		< 50.0		< 50.0		< 50.0	< 50.0
AH-3	7/20/2022	1-2	-	1,150		< 0.00198		< 0.00198		< 0.00198		< 0.00397		< 0.00397		< 50.0		< 50.0		< 50.0		< 50.0	< 50.0
T-1	7/20/2022	0-1	-	93.6		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00402		< 50.0		< 50.0		< 50.0		< 50.0	< 50.0
T-2	7/20/2022	0-1	-	60.8		< 0.00202		< 0.00202		< 0.00202		< 0.00403		< 0.00403		< 49.9		< 49.9		< 49.9		< 49.9	< 49.9
T-3	7/20/2022	0-1	-	1,500		< 0.00201		< 0.00201		< 0.00201		< 0.00402		< 0.00402		< 50.0		< 50.0		< 50.0		< 50.0	< 50.0
T-4	7/20/2022	0-1	-	500		< 0.00202		< 0.00202		< 0.00202		< 0.00403		< 0.00403		< 49.9		< 49.9		< 49.9		< 49.9	< 49.9
		0-1	158	32.0	Ì	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		2-3	219	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		3-4	376	160.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		4-5	1,540	992		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		6-7	2,350	1,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
BH-1	9/28/2022	8-9	1300	944		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		28.5		< 10.0		28.5	28.5
		14-15	2250	2,000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		19-20	1,710	1,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		24-25	970	1,580		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		29-30	400	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		34-35	511	336		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		0-1	203	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		2-3	429	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		4-5	594	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
BH-2	9/27/2022	6-7	577	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		8-9	376	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0
		14-15	488	336		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	<u> </u>	< 10.0	< 10.0
		19-20	246	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0	< 10.0

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B
 Method 8021B

Method 8015M

APPENDIX A C-141 Forms

32.021533

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

-103.414822 -103.696660°

Release Notification

Responsible Party

Responsible Party	Conoco Phillips	OGRID	217817
Contact Name	Charles R. Beauvais II	Contact Telephone	(575) 988 - 2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2128035834
Contact mailing address	15 W. London RD. Loving,	NM 88256	

Location of Release Source

Latitude	02.021000	Longitude
	(NAD 83 in decimal d	l degrees to 5 decimal places)
Site Name	Buck Federal CTB	Site Type Tank Battery
Date Releas	se Discovered September 24, 2021	API# (if applicable)

Unit Letter Section Township Range County
DO 30 17 26S 35E 32E LEA

32.037538°

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

	(s) Released (Select all that apply and attach calculations or specific	
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 7.9	Volume Recovered (bbls) 3
	Is the concentration of dissolved chloride in the	■ Yes □ No
	produced water >10,000 mg/l?	
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)
	C 4 /	C u
C CD . L		
Cause of Release		

Cause of release: 1" plug that leads to transfer pump had corroded and fell off. Produced water spilled from primary containment to partially lined secondary containment. Approximately 7.9 bbls released, recovered volume via vac-truck was 3 bbls of standing fluids.

Received by OCD: 11/9/2022	8.01.03.PM
Form C-141	State of New Mexico
Page 2	Oil Conservation Division

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ncident ID	
District RP	
Facility ID	
Amplication ID	·

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
		nator, at 2:30 PM, on 09/27/2021 via email to ment for submittals was made to NMOCD by Brittany Esparza.
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
	_	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environs	ment. The acceptance of a C-141 report by the G	ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
_	les R. Beauvais II	Title: Environmental Engineer
Signature: Charl	les R. Beauvais 11	Date: 10/7/2021
	uvais@ConocoPhillips.com	Telephone: (575) 988 - 2043
-	inconsistencies and submitted via the	
OCD Only		
Received by: Ramona N	Marcus	Date: 10/07/2021
Received by.		Date,

W 03:01:01 10:07/7/01:00 14 Francisco	10/1/	01 1001	10.50 414			48 Spill Vo	8 Spill Volume Estimate Form	e Form	NAFFZI	NAFF2128035834		- Bonn 3 of
eceived by OCD.	10111	Facility	ivame & Number	Pacity Name & Member Buck / Federal CTB			新聞的 1000000000000000000000000000000000000					+ fo c agn 1
	-		Asset Area, Zia Hills	Zartis								
	Rele	ase Disco	wery Date & Time:	Release Discovery Date & Time: 9:24:2021 @ 3:17pm								
			Release Type:	Release Type: Produced Water								
Provice	le any kn	own deta	Provide any known details about the event. Corroded 37 plug	Corroded 3" plug								
					S	Spill Calcufation	Calculation - On Pad Surface Pool Spill	Pool Spill				
Convert fregular shape nto a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas	Deeped point in No. of boundaries of each of the areas "shore" in each area (in.)	Estimated <u>Pool</u> Area (5q ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penstration strowance (fL)	Total Estimated Volume of Spill (604.)	Percentage of Olif Spiled fluid is a Moture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spiled Liquid other than Oil (bbil.)
Rectanole A	31.0	28.0	175	67	668,000	0.049	7.511	0,002	7.529			
Reclande 8	35.0	3 200	0.25	6	350.000	2000	0.433	0000	0.433			
Rectangle C	100000000000000000000000000000000000000				0,000	#DIV/O	IO/AIC#	#DIV/OI	iO/AIC#			
Rectangle D		100000000000000000000000000000000000000			00000	#CNV/O;	iO/AIC#	#DIV/O	JO/AIQ#			
Reclangie E	SERVING SE				0.000	#CIV/0!	#DIV/O	i0/AlQ#	#DIV/OF			
Rectangle F					0.000	#CIVVO:	#DIV/Oi	#DIV/0!	MOIVIO#			
Reclande G	SECTION SECTION	555555555 555555555 555555 5555 5555 5555			0000'0	#CIV/O	iO/NO#	:O/A/O#	#DIVID#			
Reclangle H	SECTION SECTION	200000000000000000000000000000000000000			0.000	#01//03	(O/AIC#	IO/AIG#	#OIV/OF			
Reclande	200000000000000000000000000000000000000				0.000	IO/AIO#	#DIVID!	#DIV/Q!	HONOR			
A Reclanda A		7/0037	2.10.20 014		0000	#DIVIO!	iQ/AlG#	#DIV/O!	#DIV/IOI			
A STRING TO THE STATE OF THE STREET OF THE STREET	0	1707//0	3.10.00 F.K					Total Votume Refease:	7.962			

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

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

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

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

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

CONDITIONS

Action 54678

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	54678
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	10/7/2021

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Incident ID	NAPP2128035834
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 50 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	> 50 (ft b	gs)
Did this release impact groundwater or surface water?	☐ Yes 🗸 No)
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No)
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No)
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ✓ No)
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ✓ No)
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ✓ No)
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No)
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ✓ No)
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No)
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ✓ No)
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗸 No)
Did the release impact areas 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of	soil
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel	ls.	

Ch	aracterization Report Checklist: Each of the following items must be included in the report.
-	. The state of the
✓	Field data
\checkmark	Data table of soil contaminant concentration data
\checkmark	Depth to water determination
\checkmark	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
\checkmark	
\checkmark	Photographs including date and GIS information
\	Topographic/Aerial maps
✓	Laboratory data including chain of custody
1	

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

Received by OCD: 11/9/2022 8:01:03 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

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	1 1180 12 0/ 11
Incident ID	NAPP2128035834
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Sam Widmer	Title: Principal Program Manager
Signature: Sam Widner	Date:Nov-04-2022
email:	Telephone:281-206-5298
OCD Only	
Received by: Jocelyn Harimon	Date:11/10/2022

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Incident ID	NAPP2128035834
District RP	
Facility ID	
Application ID	

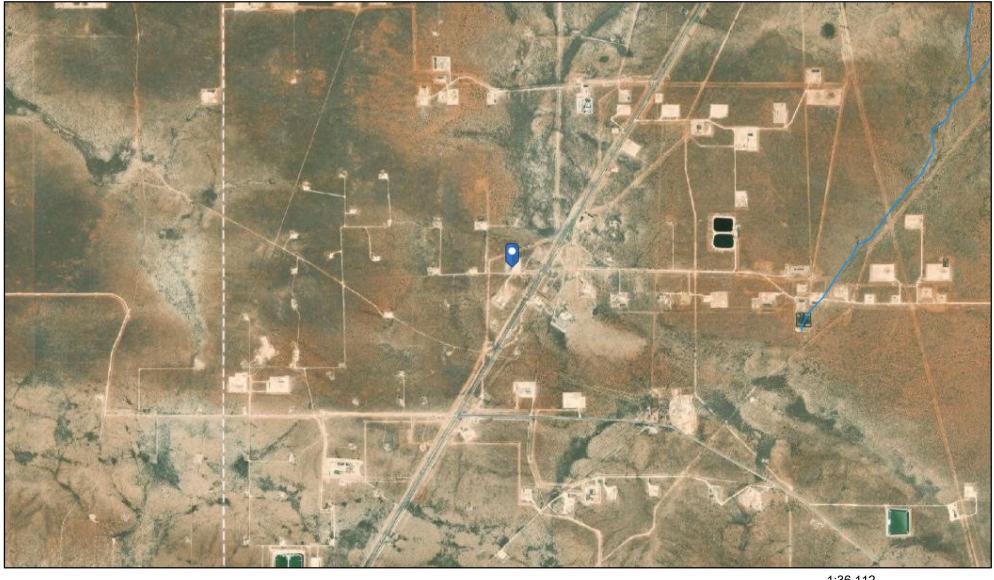
Closure

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.

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report
Closure Report Attachment Checkist. Luch of the Johnwing	nems 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 photomust be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C 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 certa may endanger public health or the environment. The acceptance o should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
DocuSigned by:	Nov. 04. 2022
Signature: Sam Widmer	Date:
email: Sam.Widmer@conocophillips.com	Telephone: _281-206-5298
OCD Only	
Received by:Jocelyn Harimon	Date:11/10/2022
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible lor regulations.
Closure Approved by:	Date: 12/09/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

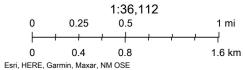
APPENDIX B Site Characterization Data

NM OCD Water Bodies

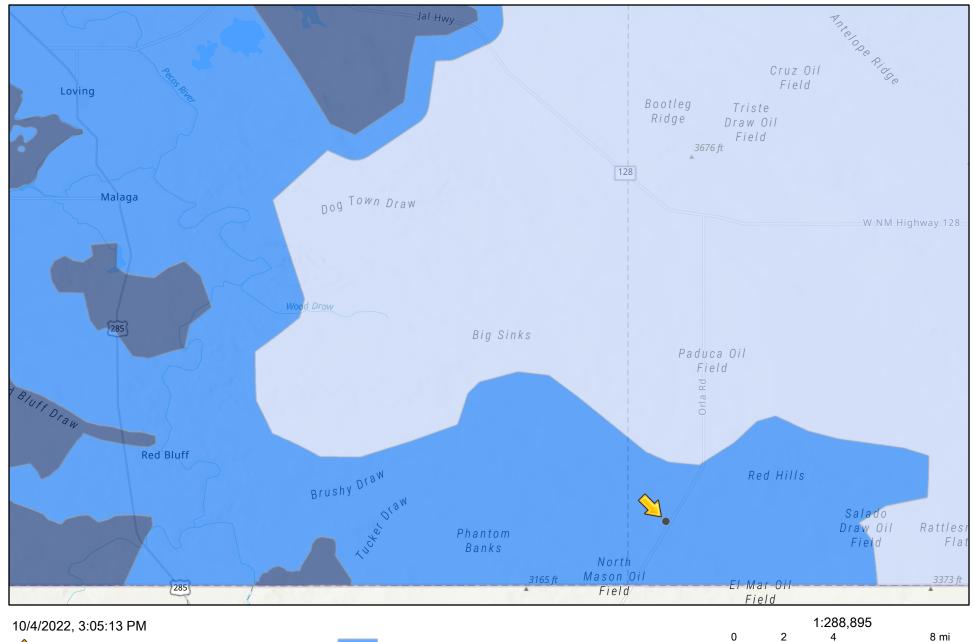


8/10/2022, 4:32:29 PM

OSE Streams



BUCK FEDERAL OCD KARST POTENTIAL MAP



Override 1 Karst Occurrence Potential Medium

High

Medium

Medium

D

3.25 6.5

BLM, OCD, New Mexico Tech, Esri, NASA, I

BLM, OCD, New Mexico Tech, Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS,

13 km



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								•	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	\mathbf{Y}	DistanceDep	pthWellDep	othWater C	Column
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985 🌍	1800	850		
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	1848	270	250	20
<u>C 02323</u>		C	LE	3	2	3	21	26S	32E	624348	3544010*	1848	405	405	0
<u>C 02271</u>	R	CUB	LE		2	3	21	26S	32E	624449	3544111*	1851	150	125	25
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	1876	280	180	100

Average Depth to Water:

240 feet

Minimum Depth:

125 feet

Maximum Depth:

405 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 623062.793

Northing (Y): 3545338.506

Radius: 2000

*UTM location was derived from PLSS - see Help

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

8/10/22 3:25 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Received by OCD: 11/9/2022 8:01:03 PM

212C-MD-02589 TETRA TECH							LOG OF BORING DTW	Page 1 of 1
Project Name: Buck Federal CTB Release								
Borehole Location: GPS Coordinates: 32.037733°, -103.695950°							Surface Elevation: 3171 ft	
Borehole Number: DTW Borehole							e er (in.): 8 Date Started: 9/27/2022 Date Finish	ed: 9/27/2022
(mo	pm)	ENT (%)	£	DEX			WATER LEVEL OBSERVATIONS	DRY_ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm)		MOISTURE CONTENT (%)	DRY DENSITY (pcf) F LIQUID LIMIT	☐ PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
I ш С ₹	ion Aceta liby Vane spile Discr	ate Liner Shear	Opera	tion: MuddleRota	lary tinuous tht Auge		-SM- SILTY SAND: Light brown, coarse-grained, loose, with occasional caliche, drySM- SILTY SAND: Tan, coarse to fine-grained, dense, with abundant caliche, drySP- SAND: Tan, fine-grained, dense, with moderate caliche, drySP- SAND: Tan, fine to very fine-grained, dense, with trace caliche, drySP- SANDSTONE: Reddish brown, cemented, dry.	
Logger: Colton B			Drilling	∃ Rota		: Air	Core Barrel Driller: Scarborough Drilling	

APPENDIX C Regulatory Correspondence

From: Hamlet, Robert, EMNRD

To: Esparza, Brittany

Cc: Beauvais, Charles R; Gonzalez, Jessika L; Fejervary Morena, Gustavo A; Bratcher, Mike, EMNRD; Hensley, Chad,

EMNRD; Velez, Nelson, EMNRD

Subject: (Extension Approval) Buck Federal CTB (NAPP2128035834) 09-24-2021

Date: Tuesday, January 4, 2022 10:52:00 AM

RE: Incident #NAPP2128035834

Brittany,

Your request for an extension to **March 30th, 2022** is approved.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Esparza, Brittany < Brittany. Esparza@conocophillips.com>

Sent: Thursday, December 30, 2021 11:37 AM

To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; CFO_Spill, BLM_NM

<BLM_NM_CFO_Spill@blm.gov>

Cc: Beauvais, Charles R < Charles.R. Beauvais@conocophillips.com>; Gonzalez, Jessika L

<Jessika.L.Gonzalez@conocophillips.com>; Esparza, Brittany

<Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A

<G.Fejervary@conocophillips.com>

Subject: [EXTERNAL] (Extension Request #1) Buck Federal CTB (NAPP2128035834) 09-24-2021

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

To Whom it May Concern,

Under the new spill rule a Work Plan or Closure Report is due for the above release on December 30, 2021. ConocoPhillips is requesting a three-month extension until March 30, 2022 in order to assess this release.

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

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | ConocoPhillips

O: 432-221-0398 | **C**: 432-349-1911 | 3CC-2064 Midland, Texas

APPENDIX D Laboratory Analytical Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-17275-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Buck Federal CTB

For:

Tetra Tech, Inc. 8911 N. Capital of Texas Hwy Bldg. 2, Ste 2310 Austin, Texas 78759

Attn: Christian Llull

RAMER

7/30/2022 5:37:56 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Review your project results through EOL **Have a Question?**

····· Links ······

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 12/9/2022 12:15:47 PM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Laboratory Job ID: 880-17275-1

SDG: Lea County NM

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QC Association Summary	13
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Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
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4 1

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-17275-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Qualifiers

		_	_
CC	1/	n	Λ
GC	v	v	_

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17275-1 SDG: Lea County NM

Job ID: 880-17275-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-17275-1

Receipt

The samples were received on 7/22/2022 12:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-30680 and analytical batch 880-30750 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-30680 and analytical batch 880-30750 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-17267-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2618-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: T-1 (0'-1') (880-17275-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: T-3 (0'-1') (880-17275-3) and T-4 (0'-1') (880-17275-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30666 and analytical batch 880-30643 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 880-17275-1

Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: T-1 (0'-1')

Date Collected: 07/20/22 14:00 Date Received: 07/22/22 12:53

Lab Sample ID: 880-17275-1

Matrix: Solid

nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
enzene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 18:46	
oluene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 18:46	
thylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 18:46	
n-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/26/22 11:07	07/27/22 18:46	
-Xylene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 18:46	•
ylenes, Total	<0.00402	U	0.00402		mg/Kg		07/26/22 11:07	07/27/22 18:46	1
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	100		70 - 130				07/26/22 11:07	07/27/22 18:46	-
4-Difluorobenzene (Surr)	111		70 - 130				07/26/22 11:07	07/27/22 18:46	7
lethod: Total BTEX - Total B1	ΓEX Calculation								
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00402	U	0.00402		mg/Kg			07/28/22 10:37	1
lethod: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<50.0	U	50.0		mg/Kg			07/27/22 10:58	

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/26/22 10:41 07/27/22 01:29 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/26/22 10:41 07/27/22 01:29 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/26/22 10:41 07/27/22 01:29 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 72 70 - 130 07/26/22 10:41 07/27/22 01:29 69 S1-70 - 130 07/26/22 10:41 07/27/22 01:29 o-Terphenyl

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.6	4.97	mg/Kg			07/29/22 14:00	1

Client Sample ID: T-2 (0'-1') Lab Sample ID: 880-17275-2 Date Collected: 07/20/22 14:10 Matrix: Solid

Date Received: 07/22/22 12:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 19:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 19:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 19:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/26/22 11:07	07/27/22 19:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 19:12	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/26/22 11:07	07/27/22 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				07/26/22 11:07	07/27/22 19:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130				07/26/22 11:07	07/27/22 19:12	1

Eurofins Midland

Client: Tetra Tech, Inc.

Job ID: 880-17275-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: T-2 (0'-1') Lab Sample ID: 880-17275-2 Date Collected: 07/20/22 14:10

Matrix: Solid Date Received: 07/22/22 12:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/28/22 10:37	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 10:58	1
Method: 8015B NM - Diesel Rang	e Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 02:12	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 02:12	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				07/26/22 10:41	07/27/22 02:12	1
o-Terphenyl	78		70 - 130				07/26/22 10:41	07/27/22 02:12	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.8		4.97		mg/Kg			07/29/22 14:09	1

Client Sample ID: T-3 (0'-1') Lab Sample ID: 880-17275-3 Date Collected: 07/20/22 14:20 **Matrix: Solid**

Date Received: 07/22/22 12:53

Released to Imaging: 12/9/2022 12:15:47 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 19:38	
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 19:38	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 19:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/26/22 11:07	07/27/22 19:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/26/22 11:07	07/27/22 19:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/26/22 11:07	07/27/22 19:38	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4. Due see office we be seen as a Country	102		70 - 130				07/26/22 11:07	07/27/22 19:38	1
4-Bromofluorobenzene (Surr)	102								
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT	109 EX Calculation		70 - 130				07/26/22 11:07	07/27/22 19:38	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte	109 EX Calculation	Qualifier U		MDL	Unit mg/Kg	<u>D</u>	07/26/22 11:07 Prepared	07/27/22 19:38 Analyzed 07/28/22 10:37	
1,4-Difluorobenzene (Surr)	EX Calculation Result <0.00402 ge Organics (DR	U	70 ₋ 130			<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	EX Calculation Result <0.00402 ge Organics (DR	U O) (GC) Qualifier	70 - 130 RL 0.00402		mg/Kg	<u> </u>	Prepared	Analyzed 07/28/22 10:37	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00402 ge Organics (DRO Result <50.0	O) (GC) Qualifier U	70 - 130 RL 0.00402		mg/Kg	<u> </u>	Prepared	Analyzed 07/28/22 10:37 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	EX Calculation Result <0.00402 ge Organics (DR) Result <50.0	O) (GC) Qualifier U	70 - 130 RL 0.00402	MDL	mg/Kg	<u> </u>	Prepared	Analyzed 07/28/22 10:37 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	EX Calculation Result <0.00402 ge Organics (DR) Result <50.0	O) (GC) Qualifier U RO) (GC) Qualifier	70 - 130 RL 0.00402 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 07/28/22 10:37 Analyzed 07/27/22 10:58	Dil Fac

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Job ID: 880-17275-1

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

1500

SDG: Lea County NM

Client Sample ID: T-3 (0'-1')

Date Collected: 07/20/22 14:20 Date Received: 07/22/22 12:53

Lab Sample ID: 880-17275-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				07/26/22 10:41	07/27/22 02:34	1
o-Terphenyl	65	S1-	70 - 130				07/26/22 10:41	07/27/22 02:34	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

24.9

mg/Kg

Client Sample ID: T-4 (0'-1')

Date Collected: 07/20/22 14:30

Chloride

Date Received: 07/22/22 12:53

Lab Sample ID: 880-17275-4

07/29/22 14:18

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 20:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 20:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 20:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/26/22 11:07	07/27/22 20:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/22 11:07	07/27/22 20:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/26/22 11:07	07/27/22 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				07/26/22 11:07	07/27/22 20:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/26/22 11:07	07/27/22 20:05	1

Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/28/22 10:37	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.6		50.0		mg/Kg			07/27/22 10:58	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 02:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	80.6		50.0		mg/Kg		07/26/22 10:41	07/27/22 02:55	1

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	07/26/22 10:41	07/27/22 02:55	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130		07/26/22 10:41	07/27/22 02:55	1
o-Terphenyl	65	S1-	70 - 130		07/26/22 10:41	07/27/22 02:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500	5.04	mg/Kg			07/29/22 14:27	1

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C10-C28)

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-17275-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17267-A-1-D MS	Matrix Spike	83	123	
880-17267-A-1-E MSD	Matrix Spike Duplicate	88	123	
880-17275-1	T-1 (0'-1')	100	111	
880-17275-2	T-2 (0'-1')	90	105	
880-17275-3	T-3 (0'-1')	102	109	
880-17275-4	T-4 (0'-1')	86	103	
LCS 880-30680/1-A	Lab Control Sample	106	119	
LCSD 880-30680/2-A	Lab Control Sample Dup	111	106	
MB 880-30680/5-A	Method Blank	79	66 S1-	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				to be types to the type
_				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17275-1	T-1 (0'-1')	72	69 S1-	
880-17275-2	T-2 (0'-1')	80	78	
880-17275-3	T-3 (0'-1')	70	65 S1-	
880-17275-4	T-4 (0'-1')	67 S1-	65 S1-	
890-2618-A-1-E MS	Matrix Spike	82	78	
890-2618-A-1-F MSD	Matrix Spike Duplicate	67 S1-	64 S1-	
LCS 880-30666/2-A	Lab Control Sample	90	92	
LCSD 880-30666/3-A	Lab Control Sample Dup	93	95	
MB 880-30666/1-A	Method Blank	100	108	
0				
Surrogate Legend				

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Released to Imaging: 12/9/2022 12:15:47 PM

Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB

Job ID: 880-17275-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30680/5-A

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30680

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/22 11:07	07/27/22 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/22 11:07	07/27/22 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/22 11:07	07/27/22 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/22 11:07	07/27/22 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/22 11:07	07/27/22 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/26/22 11:07	07/27/22 17:26	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/26/22 11:	07/27/22 17:26	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	07/26/22 11:	07/27/22 17:26	1

Lab Sample ID: LCS 880-30680/1-A

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30680

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	
Toluene	0.100	0.1028		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2146		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1242		mg/Kg		124	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	106		70 - 130		
1,4-Difluorobenzene (Surr)	119		70 - 130		

Lab Sample ID: LCSD 880-30680/2-A

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30680

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	6	35	
Toluene	0.100	0.09966		mg/Kg		100	70 - 130	3	35	
Ethylbenzene	0.100	0.09893		mg/Kg		99	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.2001		mg/Kg		100	70 - 130	7	35	
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 880-17267-A-1-D MS

Matrix: Solid

Analysis Batch: 30750

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 30680

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.05985	F1	mg/Kg		60	70 - 130	
Toluene	<0.00200	U F1	0.100	0.05056	F1	mg/Kg		50	70 - 130	

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Lab Sample ID: 880-17267-A-1-E MSD

QC Sample Results

Job ID: 880-17275-1 Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17267-A-1-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 30750

Prep Batch: 30680

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00200 U F1 0.100 0.07715 77 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00401 UF1 0.201 0.09728 F1 mg/Kg 48 70 - 130 0.100 0.06064 F1 60 70 - 130 o-Xylene <0.00200 UF1 mg/Kg

MS MS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 83 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130 123

Client Sample ID: Matrix Spike Duplicate

07/26/22 10:41

07/26/22 20:25

Prep Type: Total/NA

Prep Batch: 30680

Matrix: Solid Analysis Batch: 30750 Sample Sample Spike MSD MSD RPD %Rec RPD Limit Result Qualifier Added Result Qualifier Limits Analyte Unit D Benzene <0.00200 UF1 0.0996 0.06769 F1 mg/Kg 68 70 - 130 12 35 Toluene <0.00200 UF1 0.0996 0.06304 F1 mg/Kg 63 70 - 130 22 35 U F1 0.0996 0.06338 F1 64 70 - 130 20 35 Ethylbenzene < 0.00200 mg/Kg m-Xylene & p-Xylene < 0.00401 UF1 0.199 0.1259 mg/Kg 63 70 - 130 26 35 70 - 130 0.0996 0.07359 74 o-Xylene <0.00200 U F1 mg/Kg 19 35

> MSD MSD Qualifier Limits %Recovery 88 70 - 130

> > <50.0 U

Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 123 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30666/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 30643

Analyte

C10-C28)

Prep Batch: 30666 мв мв Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed <50.0 U 50.0 07/26/22 10:41 07/26/22 20:25 Gasoline Range Organics mg/Kg (GRO)-C6-C10 07/26/22 20:25 Diesel Range Organics (Over <50.0 U 50.0 07/26/22 10:41 mg/Kg

mg/Kg

OII Range Organics (Over C28-C36)

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 1-Chlorooctane 100 70 - 130 07/26/22 10:41 07/26/22 20:25 108 70 - 130 07/26/22 10:41 07/26/22 20:25 o-Terphenyl

50.0

Lab Sample ID: LCS 880-30666/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 30643

Matrix: Solid

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 107 1067 70 _ 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 914.2 mg/Kg 91 70 - 130 C10-C28)

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Prep Type: Total/NA

Prep Batch: 30666

Job ID: 880-17275-1 SDG: Lea County NM

Project/Site: Buck Federal CTB Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-30666/2-A

Matrix: Solid

Analysis Batch: 30643

Client: Tetra Tech, Inc.

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30666

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 90 70 - 130 o-Terphenyl 92 70 - 130

Lab Sample ID: LCSD 880-30666/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 30643

Prep Type: Total/NA

Prep Batch: 30666

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1056 106 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 902.3 90 mg/Kg 70 - 13020

C10-C28)

LCSD LCSD

Sample Sample

Surrogate %Recovery Qualifier Limits 93 70 - 130 1-Chlorooctane 95 70 - 130 o-Terphenyl

Lab Sample ID: 890-2618-A-1-E MS Client Sample ID: Matrix Spike

Me Me

Matrix: Solid

Analysis Batch: 30643

Prep Type: Total/NA

Prep Batch: 30666

	Sample	Sample	Spike	IVIO	IVIO				/ortec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	1000	1169		mg/Kg		114	70 - 130	
Diesel Range Organics (Over	<50.0	U F1	1000	853.5		mg/Kg		84	70 - 130	

Snika

C10-C28)

MS MS %Recovery Qualifier Surrogate

Limits 70 - 130 1-Chlorooctane 82 o-Terphenyl 78 70 - 130

Lab Sample ID: 890-2618-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 30643

Prep Type: Total/NA Prep Batch: 30666

%Rec

Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics U F2 999 943.2 F2 92 <50.0 70 - 130 21 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U F1 999 704.6 F1 mg/Kg 69 70 - 130 19 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 67 S1-70 - 130 64 S1-70 - 130 o-Terphenyl

Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB Job ID: 880-17275-1

Client Sample ID: Method Blank

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30602/1-A

Matrix: Solid

Analysis Batch: 30920

Prep Type: Soluble

MB MB Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 07/29/22 10:35

Lab Sample ID: LCS 880-30602/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30920

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 261.1 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-30602/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30920

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 261.9 mg/Kg 105 90 - 110

Lab Sample ID: 880-17266-A-41-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30920

Sample Sample MS MS Spike %Rec Result Qualifier Result Qualifier Added Analyte Unit %Rec Limits Chloride 1680 1250 3104 F1 90 - 110 mg/Kg

Lab Sample ID: 880-17266-A-41-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30920

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1680 F1 1250 Chloride 2993 mg/Kg 105 90 - 110

Lab Sample ID: 880-17282-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30920

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 3090 1250 4253 mg/Kg 90 - 110

Lab Sample ID: 880-17282-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 30920

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 3090 1250 4249 mg/Kg 93 90 - 110 20

Client: Tetra Tech, Inc.
Project/Site: Buck Federa

Project/Site: Buck Federal CTB

Job ID: 880-17275-1 SDG: Lea County NM

GC VOA

Prep Batch: 30680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Total/NA	Solid	5035	
880-17275-2	T-2 (0'-1')	Total/NA	Solid	5035	
880-17275-3	T-3 (0'-1')	Total/NA	Solid	5035	
880-17275-4	T-4 (0'-1')	Total/NA	Solid	5035	
MB 880-30680/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17267-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17267-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Total/NA	Solid	8021B	30680
880-17275-2	T-2 (0'-1')	Total/NA	Solid	8021B	30680
880-17275-3	T-3 (0'-1')	Total/NA	Solid	8021B	30680
880-17275-4	T-4 (0'-1')	Total/NA	Solid	8021B	30680
MB 880-30680/5-A	Method Blank	Total/NA	Solid	8021B	30680
LCS 880-30680/1-A	Lab Control Sample	Total/NA	Solid	8021B	30680
LCSD 880-30680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30680
880-17267-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	30680
880-17267-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30680

Analysis Batch: 30906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Total/NA	Solid	Total BTEX	
880-17275-2	T-2 (0'-1')	Total/NA	Solid	Total BTEX	
880-17275-3	T-3 (0'-1')	Total/NA	Solid	Total BTEX	
880-17275-4	T-4 (0'-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 30643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Total/NA	Solid	8015B NM	30666
880-17275-2	T-2 (0'-1')	Total/NA	Solid	8015B NM	30666
880-17275-3	T-3 (0'-1')	Total/NA	Solid	8015B NM	30666
880-17275-4	T-4 (0'-1')	Total/NA	Solid	8015B NM	30666
MB 880-30666/1-A	Method Blank	Total/NA	Solid	8015B NM	30666
LCS 880-30666/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30666
LCSD 880-30666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30666
890-2618-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	30666
890-2618-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	30666

Prep Batch: 30666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-17275-2	T-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-17275-3	T-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-17275-4	T-4 (0'-1')	Total/NA	Solid	8015NM Prep	
MB 880-30666/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30666/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17275-1 SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 30666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-30666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2618-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2618-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Total/NA	Solid	8015 NM	
880-17275-2	T-2 (0'-1')	Total/NA	Solid	8015 NM	
880-17275-3	T-3 (0'-1')	Total/NA	Solid	8015 NM	
880-17275-4	T-4 (0'-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 30602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Soluble	Solid	DI Leach	
880-17275-2	T-2 (0'-1')	Soluble	Solid	DI Leach	
880-17275-3	T-3 (0'-1')	Soluble	Solid	DI Leach	
880-17275-4	T-4 (0'-1')	Soluble	Solid	DI Leach	
MB 880-30602/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30602/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30602/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17266-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17266-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-17282-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17282-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 30920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17275-1	T-1 (0'-1')	Soluble	Solid	300.0	30602
880-17275-2	T-2 (0'-1')	Soluble	Solid	300.0	30602
880-17275-3	T-3 (0'-1')	Soluble	Solid	300.0	30602
880-17275-4	T-4 (0'-1')	Soluble	Solid	300.0	30602
MB 880-30602/1-A	Method Blank	Soluble	Solid	300.0	30602
LCS 880-30602/2-A	Lab Control Sample	Soluble	Solid	300.0	30602
LCSD 880-30602/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30602
880-17266-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	30602
880-17266-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30602
880-17282-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	30602
880-17282-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30602

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Lab Sample ID: 880-17275-1

Client Sample ID: T-1 (0'-1') Date Collected: 07/20/22 14:00

Date Received: 07/22/22 12:53

Matrix: Solid

Job ID: 880-17275-1

SDG: Lea County NM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 18:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30906	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30804	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 01:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30602	07/25/22 15:34	KS	XEN MID
Soluble	Analysis	300.0		1			30920	07/29/22 14:00	SMC	XEN MID

Lab Sample ID: 880-17275-2

Date Collected: 07/20/22 14:10

Client Sample ID: T-2 (0'-1')

Matrix: Solid

Date Received: 07/22/22 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 19:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30906	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30804	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 02:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30602	07/25/22 15:34	KS	XEN MID
Soluble	Analysis	300.0		1			30920	07/29/22 14:09	SMC	XEN MID

Client Sample ID: T-3 (0'-1')

Date Collected: 07/20/22 14:20

Date Received: 07/22/22 12:53

Lab Sample ID: 880-17275-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	30680	07/26/22 11:07	MR	XEN MID
Total/NA	Analysis	8021B		1			30750	07/27/22 19:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30906	07/28/22 10:37	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30804	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 02:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30602	07/25/22 15:34	KS	XEN MID
Soluble	Analysis	300.0		5			30920	07/29/22 14:18	SMC	XEN MID

Client Sample ID: T-4 (0'-1')

Date Collected: 07/20/22 14:30

Date Received: 07/22/22 12:53

Lab Sample ID: 880-17275-4 **Matrix: Solid**

Dil Batch Batch Initial Final Batch Prepared Method Amount Prep Type Туре Run Factor Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 30680 07/26/22 11:07 MR XEN MID 4.95 g 5 mL Total/NA Analysis 8021B 1 30750 07/27/22 20:05 MR XEN MID Total BTEX 30906 XEN MID Total/NA Analysis 1 07/28/22 10:37 SM

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-17275-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: T-4 (0'-1')

Date Received: 07/22/22 12:53

Lab Sample ID: 880-17275-4 Date Collected: 07/20/22 14:30 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			30804	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 02:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30602	07/25/22 15:34	KS	XEN MID
Soluble	Analysis	300.0		1			30920	07/29/22 14:27	SMC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 880-17275-1

Project/Site: Buck Federal CTB

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17275-1

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17275-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17275-1	T-1 (0'-1')	Solid	07/20/22 14:00	07/22/22 12:53
880-17275-2	T-2 (0'-1')	Solid	07/20/22 14:10	07/22/22 12:53
880-17275-3	T-3 (0'-1')	Solid	07/20/22 14:20	07/22/22 12:53
880-17275-4	T-4 (0'-1')	Solid	07/20/22 14:30	07/22/22 12:53

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

otice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

: eurofins

Phone

338 - 1667

Project Name

Buck Federal

CTB

112C - MO - 03589

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Due Date Routine

Sampler's Name Project Location Project Number Address

City, State ZIP

Project Manager

Company Name

Tetro

Tech

Christian

Xenco Theomen estig

Chain of Custody

Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Houston TX (281) 240-4200 Dallas TX (214) 902-0300

Work Order No: 17275

CRA 13PPM Texas 11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb							1430	1430	HIO	1400	Sampled		mnerature	acioi	Ī	Wet Ice	the lab if received by 4 30pm	TAT starts the day received by	Due Date	X Routine	Turn	Email					
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Sample Custody Seals Cooler Custody Seals Samples Received Intact. SAMPLE RECEIPT

Yes

No C NUR

Yes No (NIA) Correction Factor

(Yes No

Thermometer ID Yes (No) Wet Ice

Temp Blank.

Sample Identification

Matrix

Date Sampled

Sampled

Corrected Temperature Temperature Reading

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Loc: 880 17275

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-17275-1

SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 17275 List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-17276-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Buck Federal CTB

For:

Tetra Tech, Inc. 8911 N. Capital of Texas Hwy Bldg. 2, Ste 2310 Austin, Texas 78759

Attn: Christian Llull

JURAMER

Authorized for release by 8/1/2022 9:59:15 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Ask—The Expert

EOL

Have a Question?

····· Links ······

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Released to Imaging: 12/9/2022 12:15:47 PM

signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Laboratory Job ID: 880-17276-1

SDG: Lea County NM

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Definitions/Glossary

Job ID: 880-17276-1 Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB SDG: Lea County NM

Qualifiers

		_	_
CC	1/	n	Λ
GC	v	v	_

Qualifier	Qualiner Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17276-1 SDG: Lea County NM

Job ID: 880-17276-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-17276-1

Receipt

The samples were received on 7/22/2022 12:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-30706 and analytical batch 880-31095 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-30706 and analytical batch 880-31095 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2618-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: AH-3 (1'-2') (880-17276-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30666 and analytical batch 880-30643 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30600 and analytical batch 880-30692 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Tetra Tech, Inc. Job ID: 880-17276-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: AH-1 (0'-1')

Date Collected: 07/20/22 13:20 Date Received: 07/22/22 12:53

Lab Sample ID: 880-17276-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		07/31/22 10:09	07/31/22 15:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 15:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 15:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/31/22 10:09	07/31/22 15:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 15:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/31/22 10:09	07/31/22 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				07/31/22 10:09	07/31/22 15:37	1
1,4-Difluorobenzene (Surr)	116		70 - 130				07/31/22 10:09	07/31/22 15:37	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/01/22 10:32	1
- Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 10:58	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 03:17	1
(GRO)-C6-C10	<49.9		49.9		no ar /1/ ar		07/26/22 10:41	07/27/22 03:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 10.41	07/27/22 03:17	ı
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 03:17	1

Client Sample ID: AH-1 (1'-2') Lab Sample ID: 880-17276-2 Date Collected: 07/20/22 13:40

RL

4.95

MDL Unit

mg/Kg

70 - 130

70 - 130

88

94

16.5

Result Qualifier

Date Received: 07/22/22 12:53

Method: 300.0 - Anions, Ion Chromatography - Soluble

1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		07/31/22 10:09	07/31/22 15:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/31/22 10:09	07/31/22 15:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/31/22 10:09	07/31/22 15:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/31/22 10:09	07/31/22 15:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/31/22 10:09	07/31/22 15:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/31/22 10:09	07/31/22 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				07/31/22 10:09	07/31/22 15:58	1
1,4-Difluorobenzene (Surr)	122		70 - 130				07/31/22 10:09	07/31/22 15:58	1

Eurofins Midland

Dil Fac

07/26/22 10:41

07/26/22 10:41

Prepared

D

07/27/22 03:17 07/27/22 03:17

Analyzed

07/26/22 23:27

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-17276-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: AH-1 (1'-2')

Lab Sample ID: 880-17276-2 Date Collected: 07/20/22 13:40 Matrix: Solid

Date Received: 07/22/22 12:53

Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/01/22 10:32	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 10:58	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 03:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 03:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 03:38	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	75		70 - 130				07/26/22 10:41	07/27/22 03:38	-
o-Terphenyl	82		70 - 130				07/26/22 10:41	07/27/22 03:38	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	23.7		4.99		mg/Kg			07/26/22 23:36	1

Client Sample ID: AH-2 (0'-1') Lab Sample ID: 880-17276-3 Date Collected: 07/20/22 11:00 **Matrix: Solid**

Date Received: 07/22/22 12:53

Released to Imaging: 12/9/2022 12:15:47 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U *+	0.00199		mg/Kg		07/31/22 10:09	07/31/22 16:19	
Toluene	<0.00199	U	0.00199		mg/Kg		07/31/22 10:09	07/31/22 16:19	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/31/22 10:09	07/31/22 16:19	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/31/22 10:09	07/31/22 16:19	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/31/22 10:09	07/31/22 16:19	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/31/22 10:09	07/31/22 16:19	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				07/31/22 10:09	07/31/22 16:19	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total B			70 - 130				07/31/22 10:09	07/31/22 16:19	
			70 - 130				07/31/22 10:09	07/31/22 16:19	
Method: Total BTEX - Total B Analyte	TEX Calculation Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	07/31/22 10:09 Prepared	Analyzed	Dil Fa
Method: Total BTEX - Total B Analyte	TEX Calculation			MDL	Unit mg/Kg	<u>D</u>			Dil Fa
Method: Total BTEX - Total B Analyte Total BTEX	TEX Calculation Result <0.00398	U	RL	MDL		<u> </u>		Analyzed	Dil Fa
Method: Total BTEX - Total B	TEX Calculation Result <0.00398 nge Organics (DR	U	RL	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fa
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	TEX Calculation Result <0.00398 nge Organics (DR	U O) (GC) Qualifier	RL		mg/Kg	_ =	Prepared	Analyzed 08/01/22 10:32	Dil Fa
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	TEX Calculation Result <0.00398 nge Organics (DRO Result <50.0	O) (GC) Qualifier	RL 0.00398		mg/Kg	_ =	Prepared	Analyzed 08/01/22 10:32 Analyzed	Dil Fa
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	TEX Calculation Result <0.00398 nge Organics (DRO Result <50.0 Range Organics (D	O) (GC) Qualifier	RL 0.00398	MDL	mg/Kg	_ =	Prepared	Analyzed 08/01/22 10:32 Analyzed	Dil Fa
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel F	TEX Calculation Result <0.00398 nge Organics (DRO Result <50.0 Range Organics (D	O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.00398 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 08/01/22 10:32 Analyzed 07/27/22 10:58	Dil Fa

Job ID: 880-17276-1 SDG: Lea County NM

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Lab Sample ID: 880-17276-3

Matrix: Solid

Client Sample ID: AH-2 (0'-1')

Date Collected: 07/20/22 11:00 Date Received: 07/22/22 12:53

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/26/22 10:41	07/27/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			07/26/22 10:41	07/27/22 04:00	1
o-Terphenyl	81		70 - 130			07/26/22 10:41	07/27/22 04:00	1

	Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	38.6		5.01		mg/Kg			07/26/22 23:45	1

Client Sample ID: AH-2 (2'-3')

Date Collected: 07/20/22 11:20

Date Received: 07/22/22 12:53

Lab	Sample	ID:	880-17276-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		07/31/22 10:09	07/31/22 16:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 16:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/31/22 10:09	07/31/22 16:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 16:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/31/22 10:09	07/31/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/31/22 10:09	07/31/22 16:39	1
1 4-Diffuorohenzene (Surr)	11.4		70 130				07/31/22 10:00	07/31/22 16:30	1

our oguto	,			, y = 0 u	
4-Bromofluorobenzene (Surr)	96	70 - 130	07/31/22 10:09	07/31/22 16:39	1
1,4-Difluorobenzene (Surr)	114	70 - 130	07/31/22 10:09	07/31/22 16:39	1
Г., .,					

Method:	Total BTEX	- Total	BTEX	Calculation

Analy	rte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total I	BTEX	<0.00400	U	0.00400		mg/Kg			08/01/22 10:32	1

Method: 8015 NM - Diesel R	lange Organics (DRO) (GC)
Analyte	Posult Qualifier

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/27/22 10:58	1

	, : 5 - : : - : - :	, (,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 04:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 04:21	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 10:41	07/27/22 04:21	1
Currogato	% Pacayony	Qualifier	Limite				Propared	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	07/26/22 10:41	07/27/22 04:21	1
o-Terphenyl	83		70 - 130	07/26/22 10:41	07/27/22 04:21	1

Method: 300.0 - Anions, Ion Chromato	graph	y -	Sol	luble	
	_		_		

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	81.0		5.02		mg/Kg			_	07/26/22 23:54	1

Job ID: 880-17276-1 SDG: Lea County NM

Project/Site: Buck Federal CTB

Client Sample ID: AH-2 (4'-5') Lab Sample ID: 880-17276-5 Date Collected: 07/20/22 11:40

Matrix: Solid

Date Received: 07/22/22 12:53

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		07/31/22 10:09	07/31/22 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 17:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/31/22 10:09	07/31/22 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 17:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/31/22 10:09	07/31/22 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				07/31/22 10:09	07/31/22 17:00	1
1,4-Difluorobenzene (Surr)	119		70 - 130				07/31/22 10:09	07/31/22 17:00	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/01/22 10:32	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/27/22 10:58	Dil Fac
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte	Result <49.8 ge Organics (Di	Qualifier U RO) (GC)		MDL			Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ranç Analyte	Result <49.8 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.8	MDL	mg/Kg	<u>D</u>	Prepared	07/27/22 10:58 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.8 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.8		mg/Kg			07/27/22 10:58	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 ge Organics (Di Result <49.8	Qualifier U RO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg		Prepared 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.8		mg/Kg		Prepared	07/27/22 10:58 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 ge Organics (Di Result <49.8	Qualifier U RO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg		Prepared 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 07/27/22 04:43	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41 Prepared	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 Analyzed	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41 Prepared 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 Analyzed 07/27/22 04:43	Dil Fac 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41 Prepared	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 Analyzed	Dil Fac 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41 Prepared 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 Analyzed 07/27/22 04:43	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane D-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41 Prepared 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 Analyzed 07/27/22 04:43	1 Dil Fac 1 1 1 1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane D-Terphenyl	Result <49.8	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/26/22 10:41 07/26/22 10:41 07/26/22 10:41 Prepared 07/26/22 10:41	07/27/22 10:58 Analyzed 07/27/22 04:43 07/27/22 04:43 Analyzed 07/27/22 04:43	

Client Sample ID: AH-3 (0'-1') Lab Sample ID: 880-17276-6 Matrix: Solid Date Collected: 07/20/22 12:00

Date Received: 07/22/22 12:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		07/31/22 10:09	07/31/22 17:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/31/22 10:09	07/31/22 17:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/31/22 10:09	07/31/22 17:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/31/22 10:09	07/31/22 17:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/31/22 10:09	07/31/22 17:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/31/22 10:09	07/31/22 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				07/31/22 10:09	07/31/22 17:21	1
1,4-Difluorobenzene (Surr)	115		70 - 130				07/31/22 10:09	07/31/22 17:21	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-17276-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: AH-3 (0'-1')

Lab Sample ID: 880-17276-6 Date Collected: 07/20/22 12:00 Matrix: Solid

Date Received: 07/22/22 12:53

Method: Total BTEX - Total BTEX						_	_		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/01/22 10:32	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 10:58	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 05:04	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 05:04	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 05:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				07/26/22 10:41	07/27/22 05:04	1
o-Terphenyl	81		70 - 130				07/26/22 10:41	07/27/22 05:04	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.7		5.00		mg/Kg			07/27/22 00:31	1

Client Sample ID: AH-3 (1'-2') Lab Sample ID: 880-17276-7 Date Collected: 07/20/22 12:20 **Matrix: Solid**

Date Received: 07/22/22 12:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		07/31/22 10:09	07/31/22 18:46	
Toluene	<0.00198	U	0.00198		mg/Kg		07/31/22 10:09	07/31/22 18:46	,
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/31/22 10:09	07/31/22 18:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/31/22 10:09	07/31/22 18:46	,
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/31/22 10:09	07/31/22 18:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/31/22 10:09	07/31/22 18:46	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130				07/31/22 10:09	07/31/22 18:46	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT			70 - 130				07/31/22 10:09	07/31/22 18:46	
• ' ' '	EX Calculation	Qualifier	70 - 130 RL 0.00397	MDL	Unit mg/Kg	<u>D</u>	07/31/22 10:09 Prepared	07/31/22 18:46 Analyzed 08/01/22 10:32	Dil Fa
Method: Total BTEX - Total BT Analyte Total BTEX	EX Calculation Result <0.00397	U	RL	MDL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00397 ge Organics (DR	U	RL			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte	EX Calculation Result <0.00397 ge Organics (DR	O) (GC) Qualifier			mg/Kg	_ =	Prepared	Analyzed 08/01/22 10:32	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result Quantity Quan	U O) (GC) Qualifier U			mg/Kg	_ =	Prepared	Analyzed 08/01/22 10:32 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	FEX Calculation Result <0.00397 ge Organics (DR) Result <50.0 ange Organics (D	U O) (GC) Qualifier U		MDL	mg/Kg	_ =	Prepared	Analyzed 08/01/22 10:32 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	FEX Calculation Result <0.00397 ge Organics (DR) Result <50.0 ange Organics (D	O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.00397 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 08/01/22 10:32 Analyzed 07/27/22 10:58	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17276-1

SDG: Lea County NM

Client Sample ID: AH-3 (1'-2')

Analyte

Chloride

Date Collected: 07/20/22 12:20 Date Received: 07/22/22 12:53 Lab Sample ID: 880-17276-7

Analyzed

07/27/22 00:40

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/26/22 10:41	07/27/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			07/26/22 10:41	07/27/22 05:26	1
o-Terphenyl	72		70 ₋ 130			07/26/22 10:41	07/27/22 05:26	1

RL

25.0

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

1150

9

Dil Fac

10

12

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-17276-1

Project/Site: Buck Federal CTB

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17204-A-159-C MS	Matrix Spike	97	104	
880-17204-A-159-D MSD	Matrix Spike Duplicate	108	111	
880-17255-A-1-L MS	Matrix Spike	104	106	
880-17255-A-1-M MSD	Matrix Spike Duplicate	85	114	
880-17276-1	AH-1 (0'-1')	90	116	
880-17276-2	AH-1 (1'-2')	92	122	
880-17276-3	AH-2 (0'-1')	98	118	
880-17276-4	AH-2 (2'-3')	96	114	
880-17276-5	AH-2 (4'-5')	98	119	
880-17276-6	AH-3 (0'-1')	101	115	
880-17276-7	AH-3 (1'-2')	88	116	
LCS 880-30706/1-A	Lab Control Sample	84	115	
LCS 880-31099/1-A	Lab Control Sample	81	110	
LCSD 880-30706/2-A	Lab Control Sample Dup	84	113	
LCSD 880-31099/2-A	Lab Control Sample Dup	81	112	
MB 880-30706/5-A	Method Blank	84	108	
MB 880-30706/5-A		84	105	

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17276-1	AH-1 (0'-1')	88	94	
880-17276-2	AH-1 (1'-2')	75	82	
880-17276-3	AH-2 (0'-1')	74	81	
880-17276-4	AH-2 (2'-3')	76	83	
880-17276-5	AH-2 (4'-5')	101	107	
880-17276-6	AH-3 (0'-1')	74	81	
880-17276-7	AH-3 (1'-2')	68 S1-	72	
890-2618-A-1-E MS	Matrix Spike	82	78	
890-2618-A-1-F MSD	Matrix Spike Duplicate	67 S1-	64 S1-	
LCS 880-30666/2-A	Lab Control Sample	90	92	
LCSD 880-30666/3-A	Lab Control Sample Dup	93	95	
MB 880-30666/1-A	Method Blank	100	108	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Job ID: 880-17276-1 Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30706/5-A

Lab Sample ID: LCS 880-30706/1-A

Matrix: Solid

Analysis Batch: 31095

Matrix: Solid Analysis Batch: 31095 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30706

ı		MR	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		07/26/22 13:56	07/31/22 22:33	1
	Toluene	<0.00200	U	0.00200		mg/Kg		07/26/22 13:56	07/31/22 22:33	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/22 13:56	07/31/22 22:33	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/22 13:56	07/31/22 22:33	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/22 13:56	07/31/22 22:33	1
l	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		07/26/22 13:56	07/31/22 22:33	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	84		70 - 130	_	07/26/22 13:56	07/31/22 22:33	1
ı	1,4-Difluorobenzene (Surr)	108		70 - 130		07/26/22 13:56	07/31/22 22:33	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30706

Prep Type: Total/NA

6

35

35

35

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1251 mg/Kg 125 70 - 130 Toluene 0.100 0.09930 mg/Kg 99 70 - 130 Ethylbenzene 0.100 0.09326 mg/Kg 93 70 - 130 70 - 130 0.200 0.1793 90 m-Xylene & p-Xylene mg/Kg 0.100 o-Xylene 0.08936 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

70 - 130

70 - 130

99

95

95

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 31095

Lab Sample ID: LCSD 880-30706/2-A

Prep Batch: 30706 LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit 0.100 0.1323 mg/Kg 132 70 - 130 6 35 0.100 0.1056 mg/Kg 106 70 - 130 6 35

mg/Kg

mg/Kg

mg/Kg

LCSD LCSD %Recovery Qualifier Limits Surrogate

70 - 130 4-Bromofluorobenzene (Surr) 84 1,4-Difluorobenzene (Surr) 113 70 - 130

Lab Sample ID: 880-17204-A-159-C MS

Matrix: Solid

Analysis Batch: 31095

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 30706

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U *+	0.0998	0.08193		mg/Kg	_	82	70 - 130	
Toluene	< 0.00199	U	0.0998	0.08115		mg/Kg		81	70 - 130	

0.100

0.200

0.100

0.09886

0.1909

0.09503

Eurofins Midland

QC Sample Results

Job ID: 880-17276-1 Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analysis Batch: 31095

Lab Sample ID: 880-17204-A-159-C MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U F1 0.0998 0.06858 F1 69 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 UF1 0.200 0.1356 F1 mg/Kg 68 70 - 130 0.0998 o-Xylene <0.00199 UF1 0.06667 F1 mg/Kg 67 70 - 130

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-17204-A-159-D MSD

Matrix: Solid

Analysis Batch: 31095

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30706

Prep Batch: 30706

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U*+ 0.09561 mg/Kg 95 70 - 130 15 35 Toluene 0.09728 97 <0.00199 U 0.100 mg/Kg 70 - 130 18 35 Ethylbenzene <0.00199 UF1 0.100 0.08229 mg/Kg 82 70 - 130 18 35 0.200 0.1654 83 70 - 130 20 35 m-Xylene & p-Xylene <0.00398 UF1 mg/Kg 0.100 <0.00199 UF1 0.08177 82 70 - 130 20 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: MB 880-31099/5-A

Matrix: Solid

Analysis Batch: 31095

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31099

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 13:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 13:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 13:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/31/22 10:09	07/31/22 13:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/22 10:09	07/31/22 13:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/31/22 10:09	07/31/22 13:52	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	70 - 130	07/31/22 10:09	07/31/22 13:52	1
1,4-Difluorobenzene (Surr)	105	70 - 130	07/31/22 10:09	07/31/22 13:52	1

Lab Sample ID: LCS 880-31099/1-A

Matrix: Solid

Analysis Batch: 31095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31099

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	
Benzene	0.100	0.1175	n	ng/Kg	118	70 - 130	
Toluene	0.100	0.09893	m	ıg/Kg	99	70 - 130	
Ethylbenzene	0.100	0.09461	m	ıg/Kg	95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1853	n	ıg/Kg	93	70 - 130	

Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB

Job ID: 880-17276-1

SDG: Lea County NM

91

mg/Kg

70 - 130

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-31099/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 31095 Prep Batch: 31099 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.09017 90 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 81 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 110

Lab Sample ID: LCSD 880-31099/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid Analysis Batch: 31095

Prep Batch: 31099 Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1218 mg/Kg 122 70 - 130 4 35 Toluene 0.100 0.1000 mg/Kg 100 70 - 130 35 Ethylbenzene 0.100 0.09564 mg/Kg 96 70 - 130 35 m-Xylene & p-Xylene 0.200 0.1862 mg/Kg 93 70 - 130 35

0.09056

0.100

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 81 70 - 130 1,4-Difluorobenzene (Surr) 112 70 - 130

Lab Sample ID: 880-17255-A-1-L MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

o-Xylene

Analysis Batch: 31095

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U *+	0.101	0.09331		mg/Kg		92	70 - 130	
Toluene	< 0.00199	U	0.101	0.1029		mg/Kg		102	70 - 130	
Ethylbenzene	< 0.00199	U	0.101	0.1105		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2305		mg/Kg		115	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.1135		mg/Kg		113	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 106

Lab Sample ID: 880-17255-A-1-M MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 31095									Prep	Batch:	31099
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U *+	0.100	0.1191	-	mg/Kg		118	70 - 130	24	35
Toluene	<0.00199	U	0.100	0.09899		mg/Kg		99	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.09428		mg/Kg		94	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1848		mg/Kg		92	70 - 130	22	35
o-Xvlene	< 0.00199	U	0.100	0.09075		ma/Ka		91	70 - 130	22	35

Eurofins Midland

Prep Type: Total/NA

Prep Batch: 31099

Job ID: 880-17276-1 Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17255-A-1-M MSD

Matrix: Solid

Analysis Batch: 31095

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31099

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 85 70 - 130 1,4-Difluorobenzene (Surr) 114 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30666/1-A

Matrix: Solid

Analysis Batch: 30643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30666

Prep Type: Total/NA

Prep Batch: 30666

		MB	MB							
Ar	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga	asoline Range Organics	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/26/22 20:25	1
(G	RO)-C6-C10									
Di	esel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/26/22 20:25	1
	10-C28)									
OI	I Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/26/22 20:25	1
		МВ	МВ							

Surrogate %Recovery Qualifier

Limits 1-Chlorooctane 100 70 - 130 o-Terphenyl 108 70 - 130

07/26/22 10:41 07/26/22 20:25 07/26/22 10:41 07/26/22 20:25

Client Sample ID: Lab Control Sample

Analyzed

Prepared

Lab Sample ID: LCS 880-30666/2-A

Matrix: Solid

Analysis Batch: 30643 Spike LCS LCS

%Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1067 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 914.2 mg/Kg 91 70 - 130

C10-C28)

LCS LCS %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 90 o-Terphenyl 92 70 - 130

Lab Sample ID: LCSD 880-30666/3-A

Matrix: Solid

Analysis Batch: 30643

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30666

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1056		mg/Kg		106	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	902.3		mg/Kg		90	70 - 130	1	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	93	70 - 130
o-Terphenyl	95	70 - 130

Eurofins Midland

Dil Fac

Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB

Job ID: 880-17276-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2618-A-1-E MS

Lab Sample ID: 890-2618-A-1-F MSD

Matrix: Solid

Analysis Batch: 30643

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 30666

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U F2	1000	1169		mg/Kg		114	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U F1	1000	853.5		mg/Kg		84	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	78		70 - 130

Client Sample ID: Matrix Spike Duplicate

%Rec

Prep Type: Total/NA

Prep Batch: 30666 RPD

Matrix: Solid Analysis Batch: 30643 Spike MSD MSD Sample Sample

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U F2 999 943.2 F2 92 70 - 130 Gasoline Range Organics mg/Kg 21 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 UF1 999 704.6 F1 mg/Kg 69 70 - 130 19 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	64	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30600/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 30692

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/26/22 22:31	1

Lab Sample ID: LCS 880-30600/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30692

	Spike	LCS LCS				70 Rec	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	
Chloride	250	254.9	mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-30600/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30692

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	255.8	mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-17276-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17271-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30692

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Chloride 1150 F1 1250 3873 F1 mg/Kg 218 90 - 110

Lab Sample ID: 880-17271-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30692

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 1150 F1 1250 3879 F1 mg/Kg 219 90 - 110 0

Lab Sample ID: 880-17277-A-3-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 30692

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 22.5 F1 252 299.6 110 90 - 110 mg/Kg

Lab Sample ID: 880-17277-A-3-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 30692

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 252 302.1 F1 Chloride 22.5 F1 111 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB

Job ID: 880-17276-1 SDG: Lea County NM

GC VOA

Prep Batch: 30706

Lab Sample ID MB 880-30706/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Solid	Method 5035	Prep Batch
LCS 880-30706/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30706/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17204-A-159-C MS	Matrix Spike	Total/NA	Solid	5035	
880-17204-A-159-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Total/NA	Solid	8021B	31099
880-17276-2	AH-1 (1'-2')	Total/NA	Solid	8021B	31099
880-17276-3	AH-2 (0'-1')	Total/NA	Solid	8021B	31099
880-17276-4	AH-2 (2'-3')	Total/NA	Solid	8021B	31099
880-17276-5	AH-2 (4'-5')	Total/NA	Solid	8021B	31099
880-17276-6	AH-3 (0'-1')	Total/NA	Solid	8021B	31099
880-17276-7	AH-3 (1'-2')	Total/NA	Solid	8021B	31099
MB 880-30706/5-A	Method Blank	Total/NA	Solid	8021B	30706
MB 880-31099/5-A	Method Blank	Total/NA	Solid	8021B	31099
LCS 880-30706/1-A	Lab Control Sample	Total/NA	Solid	8021B	30706
LCS 880-31099/1-A	Lab Control Sample	Total/NA	Solid	8021B	31099
LCSD 880-30706/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30706
LCSD 880-31099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31099
880-17204-A-159-C MS	Matrix Spike	Total/NA	Solid	8021B	30706
880-17204-A-159-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30706
880-17255-A-1-L MS	Matrix Spike	Total/NA	Solid	8021B	31099
880-17255-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31099

Prep Batch: 31099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Total/NA	Solid	5035	
880-17276-2	AH-1 (1'-2')	Total/NA	Solid	5035	
880-17276-3	AH-2 (0'-1')	Total/NA	Solid	5035	
880-17276-4	AH-2 (2'-3')	Total/NA	Solid	5035	
880-17276-5	AH-2 (4'-5')	Total/NA	Solid	5035	
880-17276-6	AH-3 (0'-1')	Total/NA	Solid	5035	
880-17276-7	AH-3 (1'-2')	Total/NA	Solid	5035	
MB 880-31099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17255-A-1-L MS	Matrix Spike	Total/NA	Solid	5035	
880-17255-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Total/NA	Solid	Total BTEX	
880-17276-2	AH-1 (1'-2')	Total/NA	Solid	Total BTEX	
880-17276-3	AH-2 (0'-1')	Total/NA	Solid	Total BTEX	
880-17276-4	AH-2 (2'-3')	Total/NA	Solid	Total BTEX	
880-17276-5	AH-2 (4'-5')	Total/NA	Solid	Total BTEX	
880-17276-6	AH-3 (0'-1')	Total/NA	Solid	Total BTEX	
880-17276-7	AH-3 (1'-2')	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB Job ID: 880-17276-1 SDG: Lea County NM

GC Semi VOA

Analysis Batch: 30643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Total/NA	Solid	8015B NM	30666
880-17276-2	AH-1 (1'-2')	Total/NA	Solid	8015B NM	30666
880-17276-3	AH-2 (0'-1')	Total/NA	Solid	8015B NM	30666
880-17276-4	AH-2 (2'-3')	Total/NA	Solid	8015B NM	30666
880-17276-5	AH-2 (4'-5')	Total/NA	Solid	8015B NM	30666
880-17276-6	AH-3 (0'-1')	Total/NA	Solid	8015B NM	30666
880-17276-7	AH-3 (1'-2')	Total/NA	Solid	8015B NM	30666
MB 880-30666/1-A	Method Blank	Total/NA	Solid	8015B NM	30666
LCS 880-30666/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30666
LCSD 880-30666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30666
890-2618-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	30666
890-2618-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	30666

Prep Batch: 30666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-17276-2	AH-1 (1'-2')	Total/NA	Solid	8015NM Prep	
880-17276-3	AH-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-17276-4	AH-2 (2'-3')	Total/NA	Solid	8015NM Prep	
880-17276-5	AH-2 (4'-5')	Total/NA	Solid	8015NM Prep	
880-17276-6	AH-3 (0'-1')	Total/NA	Solid	8015NM Prep	
880-17276-7	AH-3 (1'-2')	Total/NA	Solid	8015NM Prep	
MB 880-30666/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30666/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2618-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2618-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Total/NA	Solid	8015 NM	
880-17276-2	AH-1 (1'-2')	Total/NA	Solid	8015 NM	
880-17276-3	AH-2 (0'-1')	Total/NA	Solid	8015 NM	
880-17276-4	AH-2 (2'-3')	Total/NA	Solid	8015 NM	
880-17276-5	AH-2 (4'-5')	Total/NA	Solid	8015 NM	
880-17276-6	AH-3 (0'-1')	Total/NA	Solid	8015 NM	
880-17276-7	AH-3 (1'-2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 30600

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Soluble	Solid	DI Leach	
880-17276-2	AH-1 (1'-2')	Soluble	Solid	DI Leach	
880-17276-3	AH-2 (0'-1')	Soluble	Solid	DI Leach	
880-17276-4	AH-2 (2'-3')	Soluble	Solid	DI Leach	
880-17276-5	AH-2 (4'-5')	Soluble	Solid	DI Leach	
880-17276-6	AH-3 (0'-1')	Soluble	Solid	DI Leach	
880-17276-7	AH-3 (1'-2')	Soluble	Solid	DI Leach	
MB 880-30600/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30600/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB Job ID: 880-17276-1 SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 30600 (Continued)

Lab Sample ID LCSD 880-30600/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
880-17271-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17271-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-17277-A-3-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17277-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 30692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17276-1	AH-1 (0'-1')	Soluble	Solid	300.0	30600
880-17276-2	AH-1 (1'-2')	Soluble	Solid	300.0	30600
880-17276-3	AH-2 (0'-1')	Soluble	Solid	300.0	30600
880-17276-4	AH-2 (2'-3')	Soluble	Solid	300.0	30600
880-17276-5	AH-2 (4'-5')	Soluble	Solid	300.0	30600
880-17276-6	AH-3 (0'-1')	Soluble	Solid	300.0	30600
880-17276-7	AH-3 (1'-2')	Soluble	Solid	300.0	30600
MB 880-30600/1-A	Method Blank	Soluble	Solid	300.0	30600
LCS 880-30600/2-A	Lab Control Sample	Soluble	Solid	300.0	30600
LCSD 880-30600/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30600
880-17271-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	30600
880-17271-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30600
880-17277-A-3-E MS	Matrix Spike	Soluble	Solid	300.0	30600
880-17277-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30600

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Client: Tetra Tech, Inc. Project/Site: Buck Federal CTB Job ID: 880-17276-1 SDG: Lea County NM

Client Sample ID: AH-1 (0'-1')

Lab Sample ID: 880-17276-1

Lab Sample ID: 880-17276-3

Matrix: Solid

Date Collected: 07/20/22 13:20 Date Received: 07/22/22 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31099	07/31/22 10:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31095	07/31/22 15:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31182	08/01/22 10:32	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30805	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 03:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30600	07/25/22 15:21	KS	XEN MID
Soluble	Analysis	300.0		1			30692	07/26/22 23:27	CH	XEN MID

Client Sample ID: AH-1 (1'-2')

Date Collected: 07/20/22 13:40

Lab Sample ID: 880-17276-2

Matrix: Solid

Date Received: 07/22/22 12:53

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.97 g 5 mL 31099 07/31/22 10:09 EL XEN MID Total/NA 8021B 5 mL 07/31/22 15:58 XEN MID Analysis 1 5 mL 31095 MR Total/NA Total BTEX 31182 08/01/22 10:32 XEN MID Analysis SM 1 Total/NA Analysis 8015 NM 30805 07/27/22 10:58 SM XEN MID Total/NA 30666 XEN MID Prep 8015NM Prep 10.03 g 07/26/22 10:41 DM 10 mL Total/NA Analysis 8015B NM 30643 07/27/22 03:38 AJ XEN MID Soluble XEN MID Leach DI Leach 5.01 g 50 mL 30600 07/25/22 15:21 KS Soluble Analysis 300.0 30692 07/26/22 23:36 CH XEN MID

Client Sample ID: AH-2 (0'-1')

Date Collected: 07/20/22 11:00

Date Received: 07/22/22 12:53

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31099	07/31/22 10:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31095	07/31/22 16:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31182	08/01/22 10:32	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30805	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 04:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	30600	07/25/22 15:21	KS	XEN MID
Soluble	Analysis	300.0		1			30692	07/26/22 23:45	CH	XEN MID

Client Sample ID: AH-2 (2'-3')

Date Collected: 07/20/22 11:20

Date Received: 07/22/22 12:53

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	31099	07/31/22 10:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31095	07/31/22 16:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31182	08/01/22 10:32	SM	XEN MID

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Lab Sample ID: 880-17276-4 Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Date Collected: 07/20/22 11:20

Date Received: 07/22/22 12:53

Client Sample ID: AH-2 (2'-3')

Job ID: 880-17276-1 SDG: Lea County NM

Lab Sample ID: 880-17276-4

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			30805	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 04:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30600	07/25/22 15:21	KS	XEN MID
Soluble	Analysis	300.0		1			30692	07/26/22 23:54	CH	XEN MID

Client Sample ID: AH-2 (4'-5') Lab Sample ID: 880-17276-5 Date Collected: 07/20/22 11:40

Date Received: 07/22/22 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31099	07/31/22 10:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31095	07/31/22 17:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31182	08/01/22 10:32	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30805	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 04:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30600	07/25/22 15:21	KS	XEN MID
Soluble	Analysis	300.0		5			30692	07/27/22 00:22	CH	XEN MID

Client Sample ID: AH-3 (0'-1') Lab Sample ID: 880-17276-6 Date Collected: 07/20/22 12:00 **Matrix: Solid**

Date Received: 07/22/22 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	31099	07/31/22 10:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31095	07/31/22 17:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31182	08/01/22 10:32	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30805	07/27/22 10:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 05:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30600	07/25/22 15:21	KS	XEN MID
Soluble	Analysis	300.0		1			30692	07/27/22 00:31	CH	XEN MID

Lab Sample ID: 880-17276-7 Client Sample ID: AH-3 (1'-2')

Date Collected: 07/20/22 12:20 Date Received: 07/22/22 12:53

=	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	31099	07/31/22 10:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31095	07/31/22 18:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31182	08/01/22 10:32	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30805	07/27/22 10:58	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	30666 30643	07/26/22 10:41 07/27/22 05:26	DM AJ	XEN MID XEN MID

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Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-17276-1 Project/Site: Buck Federal CTB SDG: Lea County NM

Client Sample ID: AH-3 (1'-2')

Date Received: 07/22/22 12:53

Lab Sample ID: 880-17276-7 Date Collected: 07/20/22 12:20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	30600	07/25/22 15:21	KS	XEN MID
Soluble	Analysis	300.0		5			30692	07/27/22 00:40	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17276-1

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report, bι	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes fo	
the agency does not of	fer certification.		, , ,	,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	,	
0 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17276-1

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Tetra Tech, Inc.

Project/Site: Buck Federal CTB

Job ID: 880-17276-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17276-1	AH-1 (0'-1')	Solid	07/20/22 13:20	07/22/22 12:53
880-17276-2	AH-1 (1'-2')	Solid	07/20/22 13:40	07/22/22 12:53
880-17276-3	AH-2 (0'-1')	Solid	07/20/22 11:00	07/22/22 12:53
880-17276-4	AH-2 (2'-3')	Solid	07/20/22 11:20	07/22/22 12:53
880-17276-5	AH-2 (4'-5')	Solid	07/20/22 11:40	07/22/22 12:53
880-17276-6	AH-3 (0'-1')	Solid	07/20/22 12:00	07/22/22 12:53
880-17276-7	AH-3 (1'-2')	Solid	07/20/22 12:20	07/22/22 12:53

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Transport Testing

Address City, State ZIP

City, State ZIP

Reporting Level III Level III PST/UST TRRA

Level I

State of Project:

Program: UST/PST☐ PRF☐ Brownfields☐ RR주☐

Superfund_

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Work Order Comments

Company Name Bill to (if different)

Project Manager Company Name

Chain of Custody

Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Houston TX (281) 240-4200 Dallas TX (214) 902-0300

Work Order No:	
17276	

Phone (512) 338-1667	Email Olycistic	christian. Ilull as tetatech. com	Deliverables EDD ☐ ADaPT ☐ Other
Project Name Rock Federal CIB	Turn Around	ANAL	YSIS REQUEST Preservative Codes
Project Number 2/3C - MD - 02589	XI Routine □ Rush C	Pres.	None NO DI Water H ₂ O
Project Location 100 County, NM	Due Date		
κ.	TAT starts the day received by		
PO#:			•
SAMPLE RECEIPT Temp Blank Y	Yes (No) Wet Ice (Yes) No	eter	Ü
	Thermometer ID)	NaHSO, NABIS
Cooler Custody Seals Yes No NA Co	7 + 8	2)/5	Na ₂ S ₂ O ₂ Na ₂ SO ₂
Sample Custody Seals Yes No N/A Te	Temperature Reading	<u>3</u> c	Zn Acetate+NaOH Zn
Total Containers Co	Corrected Temperature SS	E)	NaOH+Ascorbic Acid SAPC
Sample Identification Matrix S	Date Time Depth Grab! #	Cont B TPH	Sample Comments
1 (0-1) Sp.1	7-20 1320 - 6 0	01 / / /	
A) - ('-a')	1340		
AH-3 (0'.7)	1100		
AH-2 (3'-3')	1130	ggg have a see of the	
AH-2 (4-5')	140		
4H-3 (0-11)	1300		
(1-21)	√ /320 V		
			880-17276 Chain of Custody
Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As	Ba Be B Cd Ca Cr Co	Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 8RCRA	Sb As Ba Be Cd Cr Co Cu P	b Mn Mo Ni Se Ag Ti U Hg 1631/2451/7470 /7471
Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco.	amples constitutes a valid purchase order from c samples and shall not assume any responsibility lied to each project and a charge of \$5 for each s	ent company to Eurofins Xenco, its affiliates and subcontr for any losses or expenses incurred by the client if such to make submitted to Eurofins Yearo but not applying Theo	subcontractors. It assigns standard terms and conditions if such losses are due to circumstances beyond the control

Work Order No:
17276

Relinquished by (Signature) Received by (Signature) 1287.60 1208-187 Date/Time Relinquished by (Signature) Received by (Signature)

Loc: 880 17276 Date/Time

Date/Time

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-17276-1

SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 17276 List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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September 30, 2022

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

RE: BUCK FEDERAL CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/27/22 13:39.

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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022 Reported: 09/30/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Shalyn Rodriguez

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (0-1') (H224481-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/28/2022	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	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	82.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.9	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022

Reported: 09/30/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (2-3') (H224481-02)

RTFY 8021R

Result < 0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050				70 110001017	True value Qe	NI D	Qualifiei
<0.050		09/29/2022	ND	2.08	104	2.00	4.40	
~0.030	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
<0.300	0.300	09/29/2022	ND					
103 9	% 69.9-14	0						
mg/	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
192	16.0	09/28/2022	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
<10.0	10.0	09/28/2022	ND					
90.1	% 45.3-16	1						
94.8	% 46.3-17	8						
	<0.150 <0.300 103 9 Result 192 mg/ Result <10.0 <10.0 <10.0	<0.050 0.050 <0.150 0.150 <0.300 0.300 103	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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

Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022

Reported: 09/30/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Shalyn Rodriguez

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (4-5') (H224481-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.6	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022

Reported: 09/30/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (6-7') (H224481-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	85.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.1	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022

Reported: 09/30/2022 Sampling Type: Soil

Project Name: **BUCK FEDERAL CTB** Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02589 Shalyn Rodriguez

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (8-9') (H224481-05)

BTEX 8021B	mg/	mg/kg		d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	79.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.6	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022

Reported: 09/30/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (14-15') (H224481-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	77.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.7	% 46.3-17	8						

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Celey & Freene



Analytical Results For:

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

Received: 09/27/2022 Sampling Date: 09/27/2022

Reported: 09/30/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COP - LEA CO NM

Sample ID: BH - 2 (19-20') (H224481-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	196	97.8	200	2.77	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	185	92.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	85.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.3	% 46.3-17	<i>'8</i>						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



TIT	P.O. #: Company: 7 Company: 7 Address: City: State: Phone #:	CARA TECH TECHAN LIMINA by emon	ANALYSIS REQUEST
lea	Phone #: Fax #:		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME TPH STEX	
3		x X X X X X X X X X X X X X X X X X X X	
mages. Cardinal's liability and client open for mages of the state of	any claim arising whether based in contract or tort, shall be limited to the a deemed waived unless made in writing and received by Cardinal within 3 g without limitation, business interruptions, loss of use, or loss of profits in	amount paid by the client for the 0 days after completion of the applicable curred by client, its subsidiaries,	
M	Received By:	Suss of Chrowse. Sustain Result: All Results are emailed. Please Chorthon, Liell REMARKS:	No Add'l Phone #: provide Email address: Chetra tech. Com
Sampler - UPS - Bus - Other: Corrected Temp. °C Corrected Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: Standard Rush Thermometer ID #113	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes ☐ Yes



October 03, 2022

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

RE: BUCK FEDERAL CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/28/22 11:35.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

A I J 711

Received: 09/28/2022
Reported: 10/03/2022
Project Name: BUCK FEDERAL CTB

Project Name: BUCK FEDERAL CTB
Project Number: 212C-MD-02589
Project Location: COP - LEA CO NM

Sampling Date: 09/28/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 1 (0-1') (H224505-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.92	98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	226	113	200	3.96	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	210	105	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					
Surrogate: 1-Chlorooctane	84.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.4	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (2'-3') (H224505-02)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.92	98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	226	113	200	3.96	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	210	105	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (3'-4') (H224505-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	< 0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.92	98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	226	113	200	3.96	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	210	105	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.0	% 46.3-17	8						

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Celeg D. Freene



Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: **BUCK FEDERAL CTB** Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02589 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (4'-5') (H224505-04)

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	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	< 0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.92	98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	226	113	200	3.96	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	210	105	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					
Surrogate: 1-Chlorooctane	89.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	100 %	6 46.3-17	8						

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Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (6'-7') (H224505-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.92	98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	226	113	200	3.96	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	210	105	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					
Surrogate: 1-Chlorooctane	86.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.9	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: **BUCK FEDERAL CTB** Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-02589 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (8'-9') (H224505-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.92	98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	226	113	200	3.96	
DRO >C10-C28*	28.5	10.0	09/29/2022	ND	210	105	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					
Surrogate: 1-Chlorooctane	87.4 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: **BUCK FEDERAL CTB** Sampling Condition: Cool & Intact Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (14'-15') (H224505-07)

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	09/29/2022	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	09/29/2022	ND	2.04	102	2.00	1.97	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	96.8	2.00	1.32	
Total Xylenes*	<0.150	0.150	09/29/2022	ND 5.92		98.7	6.00	1.30	
Total BTEX	<0.300	0.300	09/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	231	116	200	14.0	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	228	114	200	21.8	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	81.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.0	26 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: **BUCK FEDERAL CTB** Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-02589 Sample Received By:

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (19'-20') (H224505-08)

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	10/01/2022	ND	2.24	112	2.00	0.107	
Toluene*	<0.050	0.050	10/01/2022 ND		2.17	109	2.00	0.112	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.14 107		2.00	1.33	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.55	109	6.00	2.79	
Total BTEX	<0.300	0.300	10/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	231	116	200	14.0	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	228	114	200	21.8	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	87.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.2	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (24'-25') (H224505-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	2.24	112	2.00	0.107	
Toluene*	<0.050	0.050	10/01/2022	ND	2.17	109	2.00	0.112	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.14	107	2.00	1.33	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.55	109	6.00	2.79	
Total BTEX	<0.300	0.300	10/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	231	116	200	14.0	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	228	114	200	21.8	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.3	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (29'-30') (H224505-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2022	ND	2.24	112	2.00	0.107	
Toluene*	<0.050	0.050	10/01/2022	ND	2.17	109	2.00	0.112	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.14	107	2.00	1.33	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.55	109	6.00	2.79	
Total BTEX	<0.300	0.300	10/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	231	116	200	14.0	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	228	114	200	21.8	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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Analytical Results For:

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

Received: 09/28/2022 Sampling Date: 09/28/2022

Reported: 10/03/2022 Sampling Type: Soil

Project Name: BUCK FEDERAL CTB Sampling Condition: Cool & Intact
Project Number: 212C-MD-02589 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: BH - 1 (34'-35') (H224505-11)

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	10/01/2022	ND	2.24	112	2.00	0.107	
Toluene*	<0.050	0.050	10/01/2022	ND	2.17	109	2.00	0.112	
Ethylbenzene*	<0.050	0.050	10/01/2022	ND	2.14	107	2.00	1.33	
Total Xylenes*	<0.150	0.150	10/01/2022	ND	6.55	109	6.00	2.79	
Total BTEX	<0.300	0.300	10/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	231	116	200	14.0	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	228	114	200	21.8	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	82.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.4	% 46.3-17	8						

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Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

CARDINA Laboratorie 101 East Marland, Hobbs, NM 81 (575) 393-2326 FAX (575) 393-

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-000 R 3.2 10/07/21 + Cardina	Sampler - UPS - Bus - Other: Corrected Temp. °C	Delivered By: (Circle One) Observed Temp. °C	Time:	Relinquished By: Date:	Cotte 13	ate:	service. In no event shall Calculate be liable to income and consequence of services hereunder affiliates or successors arising out of or related to the performance of services hereunder	analyses. All claims including those for negligence and any other cause whatsoever shall analyses. All claims including those for negligence and any other cause whatsoever shall analyses, included the consequential damages, including the consequential damages.	Paranese Cardinal's liability and client's exclusive remedy for any claim arising whether bas	1001-100	0 1000	(,00-,617)-11218	7 RM-1 (14-15)	6 34-169-90	5 61-1 (6-7)	10x4-1 CA-2)	084-1639	 2 24-1/01/21	HCCHOOL CALL	2001 001		Lab I.D. Sample I.D.		FOR LAB USE ONLY	Sampler Name: Cotton Brikesher	Project Location: Lea County, Mrs	Project Name: Buck Federal LTK	Project #: 222-MD-82589 Project Owner:	Phone #: Fax #:	City:		3	1	Company Name: / and a Phyllos	(575) 393-2326 FAX (575) 393-2476
al C	S. S. S. Yes S. Yes	3.8 Sample Condition CHECKED BY:		Received By:	MILLIONA MILLIAN CAMPA	All Results are	ces hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinia witim 30 days are compression of the control of	for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the										×	# CCGRC GRC WAS SOII OIL OTH ACI	ONT OUN STE L JDG HER D/B.:/CO	E ASE:	ATER ER		Fax #: PRESERV SAMPLING	Phone #:	ordie: cip.			Address	Zin: Attn: Charter Chil	Company: Teta tech	P.O. #:		
celey.keene@cardinallabsnm.com	Thermometer ID #113	Standard C	Te hemp	000	than Hull etetratech com	em	=	or any opposition	for the	W W W									XXX		T 3	PH LL	2 2 2 2 2 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4	des											ANALYSIS REQUEST

Page 14 of 15

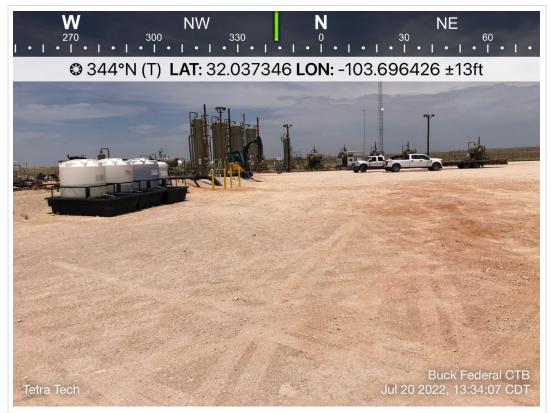
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ne: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	Sample Condition CHECKED BY: Turnaround Time:	Observed Temp. °C 2. 8 Sample Con Competed Temp. °C 2. 8 Cool Inta	Delivered By: (Circle One)
	Relinquished By: Date: Time: Date: Received By: Received By: Date: Received By:	Relinquished By: Date: Received By: Received By: Received By: Received By:	Relinquished By: Relinquished By:
able	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims in the contract of the completion of the applicable analyses.	bility and client's exclusive remedy for any claim arising whether to dany other cause whatsoever shall be deemed waived unless makes to conceniental damance including without limitation, business.	PLEASE NOTE: Liability and Damages. Cardinal's liab
		0	11 BH-1 (34-35)
STEX	SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER	Lab I.D. Sam
	MATRIX PRESERV. SAMPLING		
	Fax #:	Susta My	Project Location: Lee G
	State: Zip:	Edward LAR	Project Name: Buck Pa
	City:	Project Owner:	Project #: 2/2/MD-02589
	Address: 65 cm/l	Fax #:	Phone #:
	Attn: Chattan List	State: Zip:	City:
1	Company: Teta Teld		Address:
	P.O. #:	n Lliell	Project Manager: Charles
ANALYSIS REQUEST	BILL TO	anous Phillips	Company Name: (AND PA)

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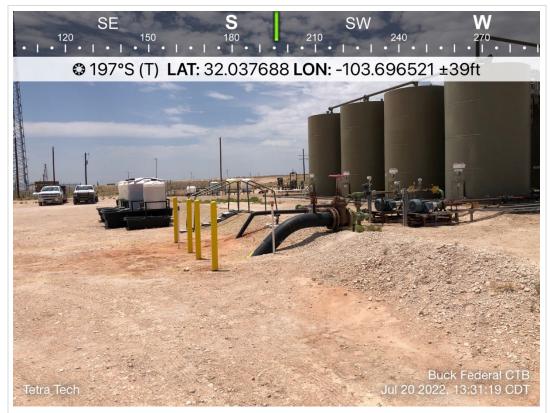
APPENDIX E Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north, pad area, equipment, and small storage tanks.	1
212C-MD-02589	SITE NAME	ConocoPhillips Buck Federal CTB	7/20/2022



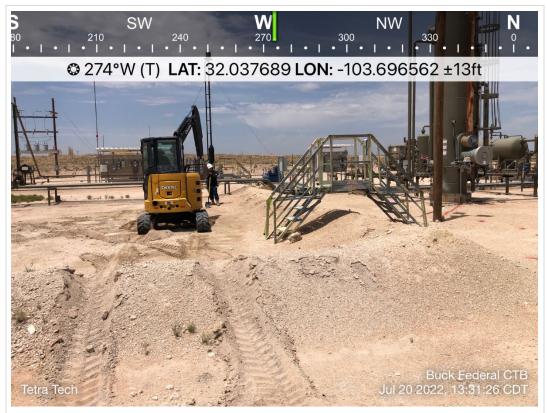
TETRA TECH, INC.	DESCRIPTION	View northwest, subsurface utilities marked with paint, northern section of equipment.	2
PROJECT NO. 212C-MD-02589	SITE NAME	ConocoPhillips Buck Federal CTB	7/20/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south, tank battery inside berm.	3
212C-MD-02589	SITE NAME	ConocoPhillips Buck Federal CTB	7/20/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View southwest, tank battery surrounded by berm, with small excavator partially in view for trenching.	4
	SITE NAME	ConocoPhillips Buck Federal CTB	7/20/2022



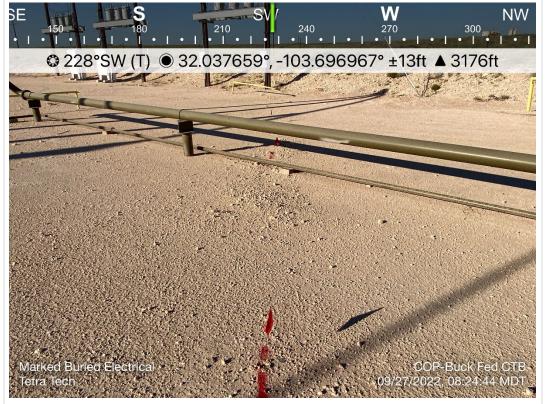
TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View east, trenching activities conducted for assessment purposes.	5
	SITE NAME	ConocoPhillips Buck Federal CTB	7/20/2022



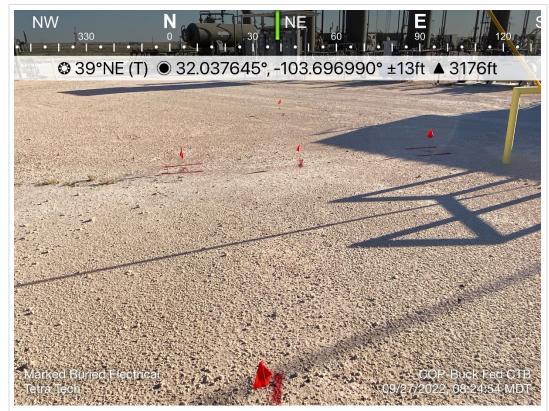
TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View southwest. Southern edge of berm outside release area.	6
	SITE NAME	ConocoPhillips Buck Federal CTB	7/20/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View southeast. Subsurface electrical lines extending towards release area.	7
	SITE NAME	ConocoPhillips Buck Federal CTB	9/27/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View southwest. Subsurface electrical line extending away from release area.	8
	SITE NAME	ConocoPhillips Buck Federal CTB	9/27/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View northeast. Subsurface electrical lines extending towards the release area	9
	SITE NAME	ConocoPhillips Buck Federal CTB	9/27/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02589	DESCRIPTION	View west. Subsurface gas line extending away from the release area.	10
	SITE NAME	ConocoPhillips Buck Federal CTB	9/27/2022

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

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

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

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

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

CONDITIONS

Action 157521

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	157521
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	12/9/2022