



July 24, 2023

District Supervisor
Oil Conservation Division, District 2
506 W. Texas Ave.
Artesia, New Mexico 88210

**Re: Closure Report
ConocoPhillips Company
Heritage Concho
Boo Radley 21C Federal CTB Release
Unit Letter C, Section 21, Township 26 South, Range 28 East
Eddy County, New Mexico
Incident ID NAPP2230542080**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COPC) to assess and evaluate a release that occurred at the Boo Radley Federal 21C Central Tank Battery (CTB). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 21, Township 26 South, and Range 28 East, Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.033379° -104.092976°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on October 18, 2022. The incident was caused by unclosed emergency shutdown (ESD) features on vicinity wells, which sent fluid to the combustor and resulted in a fire. Approximately 2,250 barrels (bbls) of produced water and 500 bbls of crude oil were reported released based on tank measurements collected before the fire. An unknown quantity of crude oil and produced water were recovered during recovery efforts. The fire and addition of water from the fire department hindered the estimate of the amount of fluid recovered. The fire remained on pad; the release of liquids (both fire water and released fluids) ran off pad into the surrounding pastureland. The release extent reported by COPC encompassed an area of approximately 200,000 square feet of oil-gas lease pad and pastureland. The release point was noted as being on the southeast corner of the tank battery. The New Mexico Oil Conservation Division (NMOCD) received the C-141 report form for the release on November 1, 2022. The NMOCD Incident ID for this release is NAPP2230542080.

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 high karst potential.

According to the New Mexico Office of the State Engineers reporting system, there are no water wells within ½ mile (800 meters) of the Site. A borehole (DTW) was drilled to 59 feet below ground surface (bgs) on November 16, 2021, by a licensed drilling subcontractor as part of work performed at the Diamondback 22 State 2H (Incident ID NAPP2129931373), located approximately 0.6 miles from the Site. The borehole was

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dry upon completion, and soils were dry from surface to total depth. The borehole coordinates are 32.03314°, -104.08201°. The site characterization data, along with the DTW boring log, is included as Appendix B.

ARCHAEOLOGICAL SURVEY

On behalf of COPC, Tetra Tech contracted with SWCA Environmental Consultants (SWCA) to conduct an intensive cultural resources pedestrian survey in support of the release assessment. Approval from the NMSLO is required prior to any intrusive work being completed at the site. This includes intrusive initial response and assessment. Alissa Healy, SWCA, submitted a NMCRIS report to the NMSLO on November 15, 2022. NMSLO approved the finding the same day. Per the NMSLO:

- *“From a cultural resource protection standpoint, this negative NIAF and the absence of any presence of the two sites despite relocation efforts demonstrates that remediation of this area will have no adverse impact on any cultural properties. The proponent is free to proceed with remediation under whatever instrument authorizes their entry onto trust lands for that purpose.”*

The NMCRIS report and subsequent NMSLO correspondence approving the report are included in the approved WP.

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 (high karst) and in accordance with Table I of 19.15.29.12 NMAC, the proposed RRALs for the Site are as follows:

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

VISUAL SITE INSPECTION

Tetra Tech personnel conducted a site visit on November 1, 2022, to visually assess the impacted release areas in the pastureland adjacent to the release point located on the lease pad. The release was noted as extending approximately 1,550 feet east from the southeast corner of the Boo Radley 21C CTB lease pad to an adjacent ConocoPhillips (former COG Operating, LLC) lease pad. The Boo Radley 21C CTB area was not accessed as operations were still in the process of deconstructing the facility.

Tetra Tech personnel determined that the provided release extent was not representative of the actual flow path through the pastureland. Areas shown as broad and all-encompassing, in fact, followed low lying, braided flow paths. The revised release extent encompasses an area of approximately 175,847 square feet. Visibly impacted areas were noted throughout the footprint in the pastureland areas. The approximate release extent is indicated in Figure 3.

SITE ASSESSMENT

Tetra Tech personnel were onsite to delineate and sample the pasture portion of the release area in November 2022. A total of twenty-seven (27) soil borings (AH-1 through AH-27) were installed using a hand auger within and around the release area in the pastureland to evaluate the vertical and horizontal extent of the release.

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Tetra Tech remobilized to the release site to perform the on-pad portion of the assessment in December 2022. A total of seventeen (17) trenches (T-1 through T-16 and T-3A) were advanced on the pad and in the pastureland. An additional seven (7) soil borings (AH-28 through AH-34) were installed using a hand auger around the release on the pad to evaluate the vertical and horizontal extent of the release. Additionally, two (2) background borings were installed off-site to the west and south to obtain a representative sample of subsurface soil conditions. The sampling locations associated with the site assessment activities are shown on Figure 4.

A total of one hundred and thirty-four (134) samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal). A total of one hundred and nine (109) soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. The remaining twenty-five (25) samples were analyzed for chloride only via Method SM4500Cl-B.

SITE ASSESSMENT RESULTS

Results from the November and December 2022 soil sampling event are summarized in Table 1. Analytical results associated with boring location AH-1 AH-3, AH-5, AH-6, AH-8 through AH-11, AH-25, AH-26, T-1 through T-12, T-14 through T-16 and T-3A exceeded the proposed Site RRALs for chloride in soils. Additionally, results associated with T-5, T-7 through T-9 and T-12 exceeded the proposed RRAL for TPH. All other analytical results from the November and December 2022 sampling were below Site RRALs.

The excavation extents provided in the ensuing work plan were presented based on the data collected during the November and December assessments. As mentioned below, identified anomalies were further evaluated and assessed during remedial activities to determine final depths of excavation. The release was horizontally and vertically delineated following the December 2022 sampling events.

SUBSURFACE DATA EVALUATION

The subsurface conditions in the pad area are extremely variable. In most areas on the northwest side, the excavator bucket met refusal between 2' and 6' bgs, however, in other portions of the pad, the soils were loose and friable. In several areas there were layers of interbedded gypsum and sandy lenses noted during trenching.

During an evaluation of results from the trench assessment portion of the work, trench location T-3 exhibited anomalous results when compared to the remainder of the pad assessment locations. To verify the findings from T-3, trench T-3A was advanced approximately 10' north of T-3 to verify the anomalous results. Based on review of the analytical results from T-3 and compared to T-3A, it is likely that cross contamination was present at T-3 during the trenching activities. The data anomalies were verified by confirmation sampling during the remedial activities. Additionally, exhibited anomalies were also observed in the T-4, T-5, T-10 and T-11 subsurface data. These areas were verified by confirmation sampling during the remedial activities.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on December 21, 2022, with fee application payment PO Number N9F6M-221221-C-1410. The Work Plan described the results of the initial response activities, release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Robert Hamlet of the NMOCD on Thursday, February 22, 2023, with the following condition:

- *The Remediation Plan is Conditionally Approved. Sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. A variance for sidewall/floor confirmation samples every 600 ft2 on-pad and 400 ft2 off-pad is approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. If rock refusal interferes with the remediation process, use a back-hoe/track-hoe to remove the rock. If the rock is immovable*

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and target depth cannot be reached, use a hydrovac to clean the contaminated soil off the rock surface and outline specific locations and steps taken on the Closure Report. Back-fill with clean material. The work will need to occur in 90 days after the work plan has been approved.

A 90-day extension request to July 17, 2023, was approved by Robert Hamlet in an email dated April 21, 2023. Documentation of associated regulatory correspondence is included in Appendix C.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

Due to permitting, pending facility reconstruction and right-of-entry requirements in the pasture area, the proposed remediation was conducted in two phases. The first phase included the remedial activities conducted within the extent of the lease pad. Following the receipt of the permissions mentioned above, the second phase of the remediation to address the pasture area was initiated.

Phase I – Pad Remediation

From February 6, 2023 to March 7, 2023, Tetra Tech personnel were onsite to supervise remedial activities for the pad area of the release extent, including excavation, disposal, and confirmation sampling. Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance. Prior to confirmation sampling, on February 7, 2023, the NMOCD district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix C.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 600 square feet of excavated area on-pad. A total of two-hundred and fifty-two (252) floor sample locations and thirty-one (31) sidewall sample locations were used during the remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are shown in Figure 5.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal Laboratories in Hobbs, New Mexico. The soil samples were analyzed for TPH (GRO, DRO and ORO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

The pad remediation presented numerous hazards, especially with regard to subsurface utilities remaining in place within the proposed excavation footprint. Several areas were hand-dug (non-aggressive excavation) within excavation area footprints, as indicated on Figure 5. Impacted soils in the vicinity of these areas were dug by hand to the maximum extent practicable, however heavy machinery was used no less than 4 ft from any subsurface lines to avoid damage.

Multiple initial confirmation sampling analytical results exceeded the Site RRALs for chloride and/or TPH. The areas of excavation associated with the exceedances were expanded horizontally or deepened. Once impacted soil was presumed to have been removed from the remediated areas in the vicinity of these samples, iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 2) post-additional excavation. As mentioned, areas of assessment trenches T-3, T-4, T-5, T-10 and T-11 were verified during the on-pad remedial action. The area of T-3A was excavated to roughly 2-3' bgs. FS-1, in the vicinity of trench T-4, was excavated to 4.5' bgs. The general vicinity of T-5 was excavated to 6' bgs. The area of T-10 was excavated to 2' bgs. The area of T-11 was excavated to 5' bgs.

All final confirmation sample results were below the applicable cleanup levels. Analytical results from the confirmation sampling events are summarized in Table 2. Photographs from the excavated areas prior to backfill are provided in Appendix E. The pad area was backfilled by COP to facilitate the construction of the new battery facility.

Phase II - Pasture Remediation

Once the new facility was constructed, Tetra Tech returned to the site. From June 26, 2023 to July 21, 2023, Tetra Tech personnel were onsite to supervise remedial activities conducted in the pasture area of the release extent, including excavation, disposal, and confirmation sampling. Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance. Prior to confirmation sampling, on June 23, 2023, the NMOC district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix C.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 400 square feet of excavated area off-pad. A total of two-hundred and ninety-one (291) floor sample locations and fifty-one (51) sidewall sample locations were used during the remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are shown in Figure 6A, 6B and 6C. Based on the assessment data, the areas of AH-12, AH-13 and AH-14 on the far northeast edge of the extent did not require remediation nor reclamation. Confirmation samples ESW-25 and WSW-25 provide verification of the terminal sidewall edge in this area.

Two subsurface pipeline owners (Plains and Mark West – WTGC) south and east of the pad and pasture footprints requested that their lines be potholed prior to work. Once the lines were successfully located, remedial action inside the ROW was limited to hand-digging (non-aggressive excavation) within the release footprints to the maximum extent practicable.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal Laboratories in Hobbs, New Mexico. The soil samples were analyzed for TPH (GRO, DRO and ORO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

Multiple initial confirmation sampling analytical results exceeded the Site RRALs for chloride and/or TPH. The areas of excavation associated with the exceedances were expanded horizontally or deepened. Once impacted soil was presumed to have been removed from the remediated areas in the vicinity of these samples, iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 2) post-additional excavation. All final confirmation sample results were below the applicable cleanup levels. Analytical results from the confirmation sampling events are summarized in Table 2.

Completed Remediation

All excavated material from Phase I and Phase II of the remediation was transported offsite for proper disposal. All told, a total of approximately 10,590 cubic yards of material were transported to the R360 Red Bluff Landfill in Orla, Texas. Photographs from the excavated areas prior to backfill are provided in Appendix E. Once confirmation sampling activities were completed and associated analytical results were below the RRALs, the excavated areas were backfilled with clean material to surface grade. Due to the file size of the waste manifests, they are not included in this report. Copies of the waste manifests are available upon request.

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RECLAMATION ACTIVITIES

Once confirmation sampling activities were completed and associated analytical results were below the applicable RRALs, the excavated areas within the pasture were backfilled with clean material to surface grade. As prescribed in the approved Work Plan, the areas not within a right-of-way or atop lease roads were seeded in July 2023 to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture was used for seeding and planted in the amount specified in the pounds pure live seed per acre. Photographic documentation of the excavated areas prior to and immediately following placement of backfill and seeding are provided in Appendix D.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Nicholas M. Poole
Project Lead



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips

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July 24, 2023

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Initial Response
- Figure 4 – Site Assessment
- Figure 5 – Pad Remediation and Confirmation Sampling
- Figure 6A – Pasture Remediation and Confirmation Sampling
- Figure 6B – Pasture Remediation and Confirmation Sampling
- Figure 6C – Pasture Remediation and Confirmation Sampling

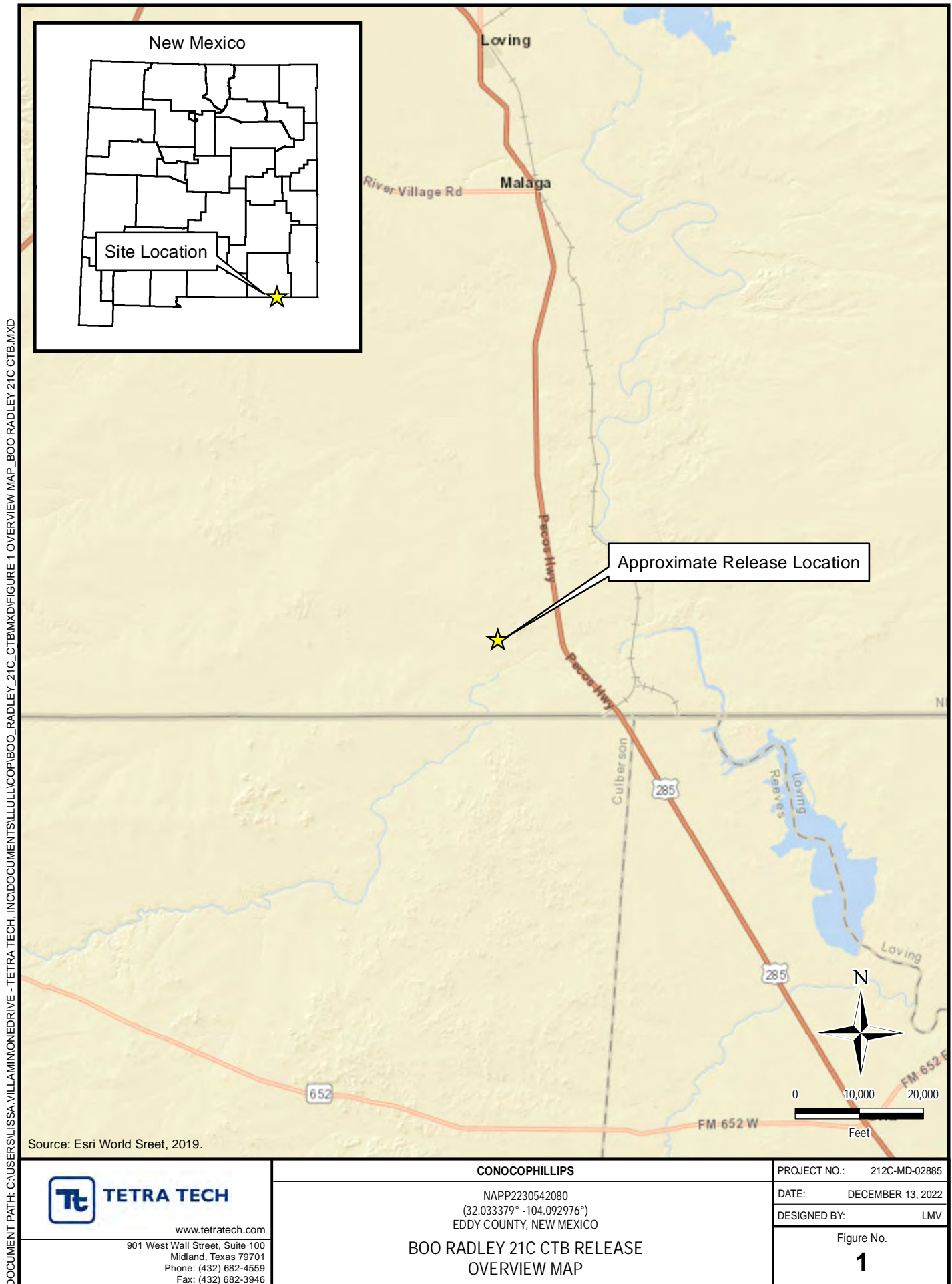
Tables:

- Table 1 – Summary of Analytical Results – 2022 Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Soil Confirmation

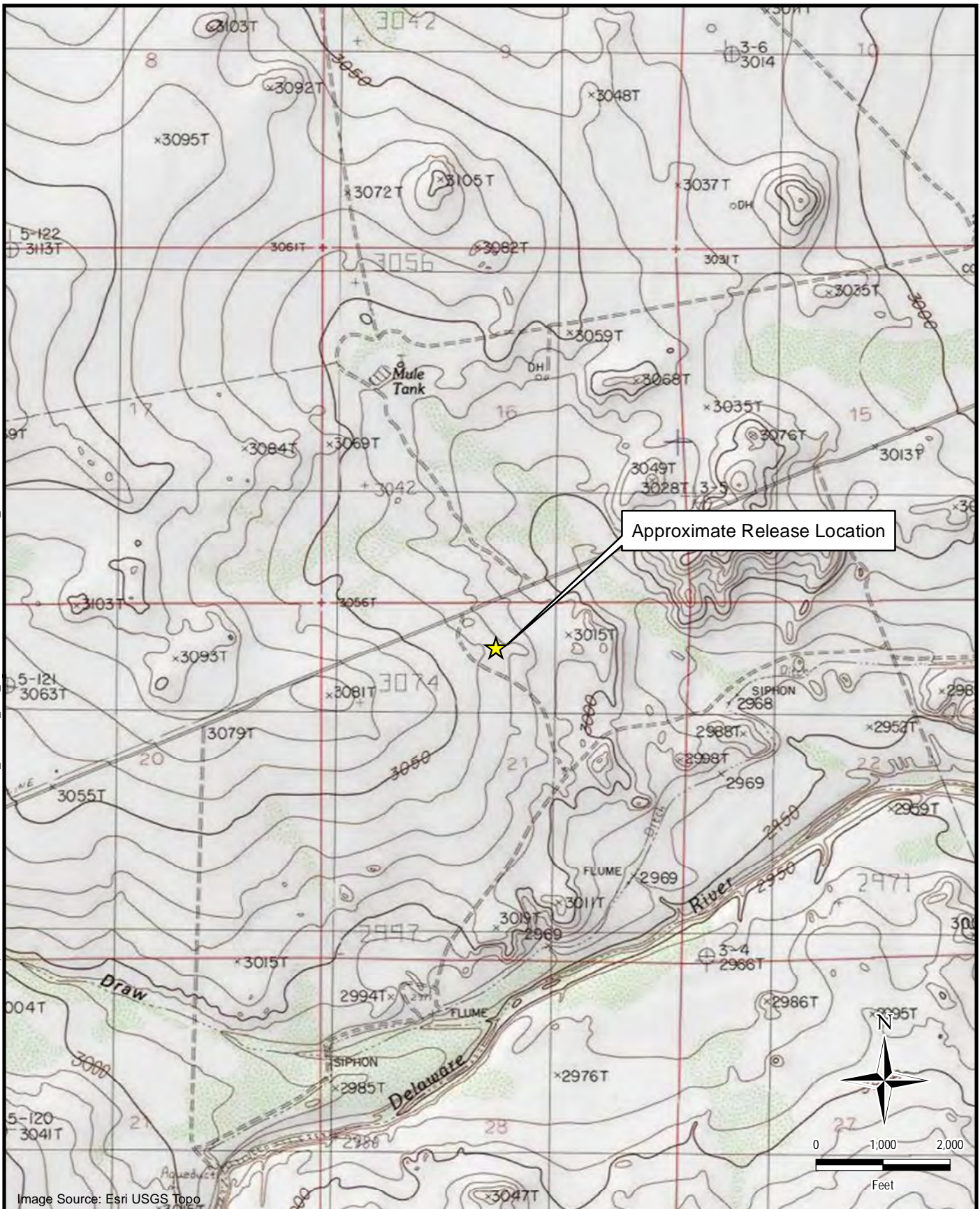
Appendices:

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

FIGURES



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CONOCOPHILLIPS

NAPP2230542080
(32.033379° -104.092976°)
EDDY COUNTY, NEW MEXICO

**BOO RADLEY 21C CTB RELEASE
TOPOGRAPHIC MAP**

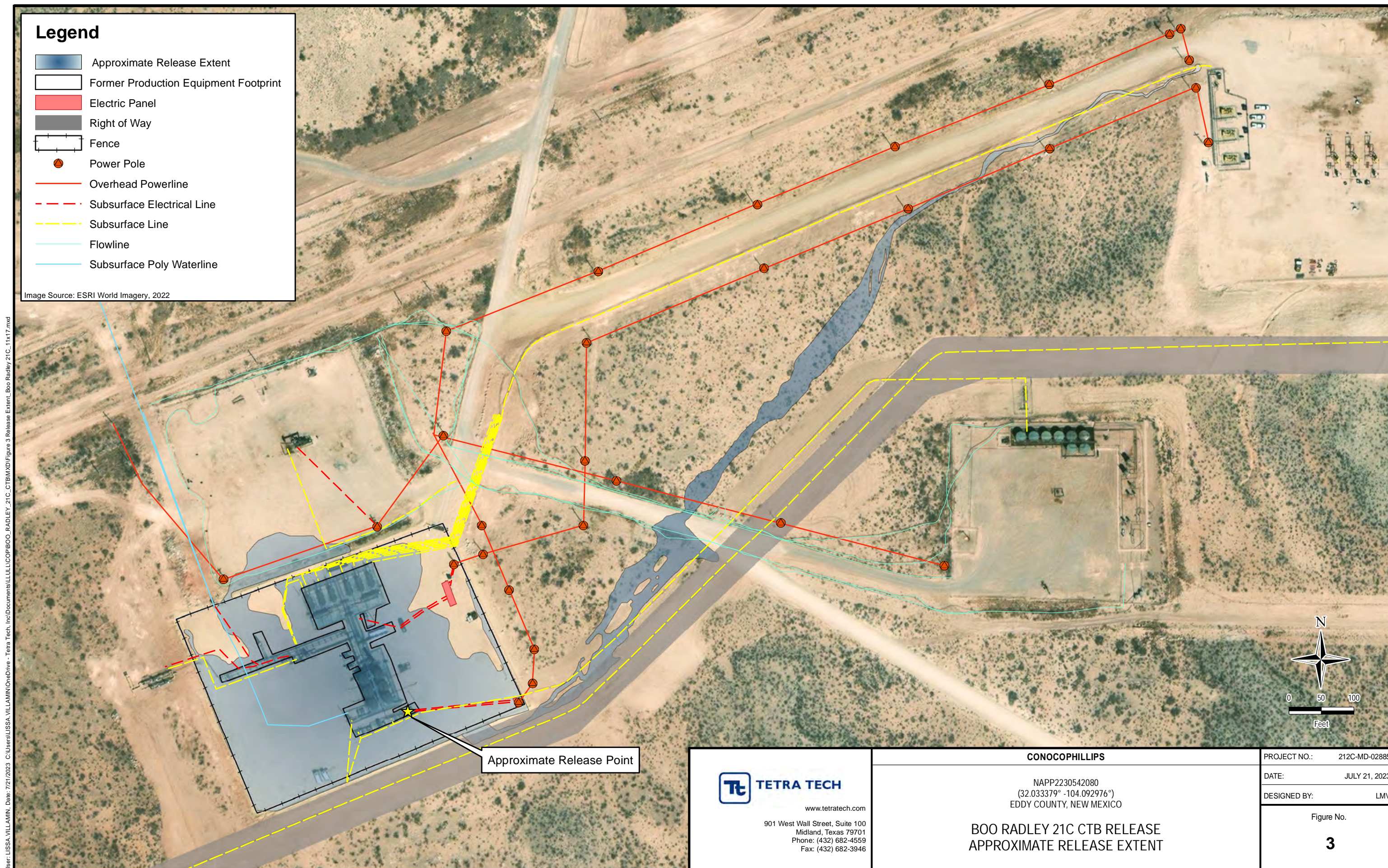
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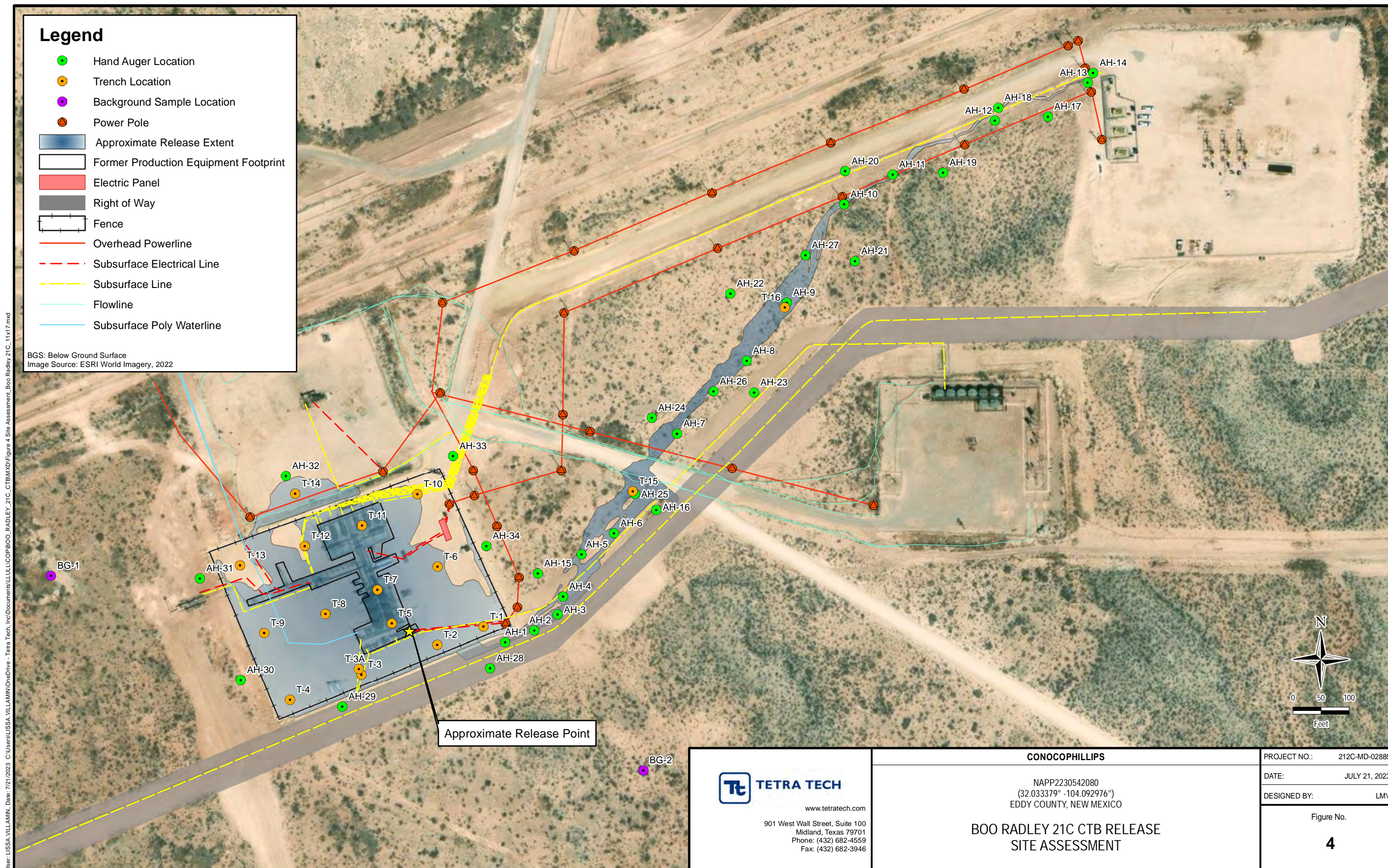
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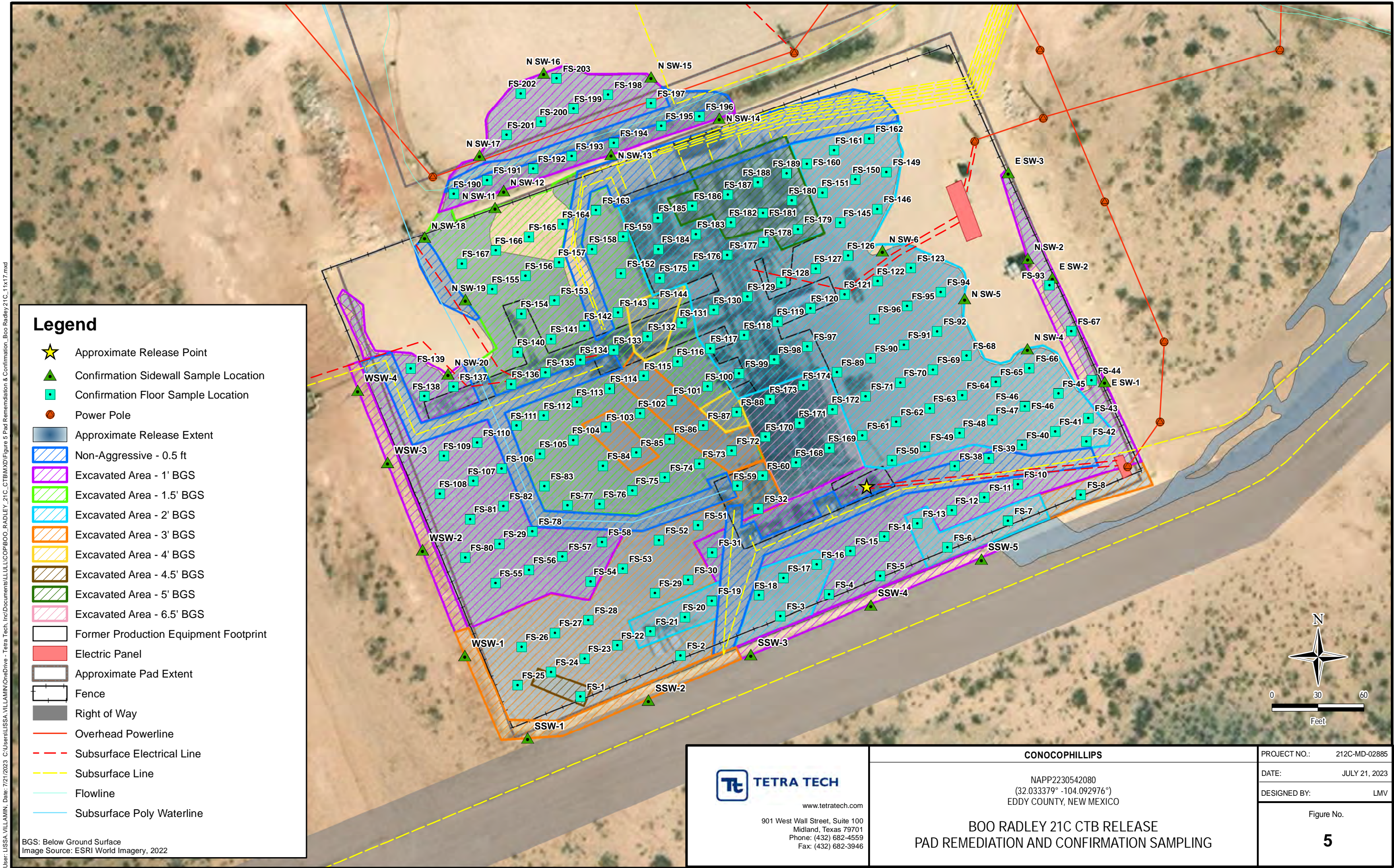
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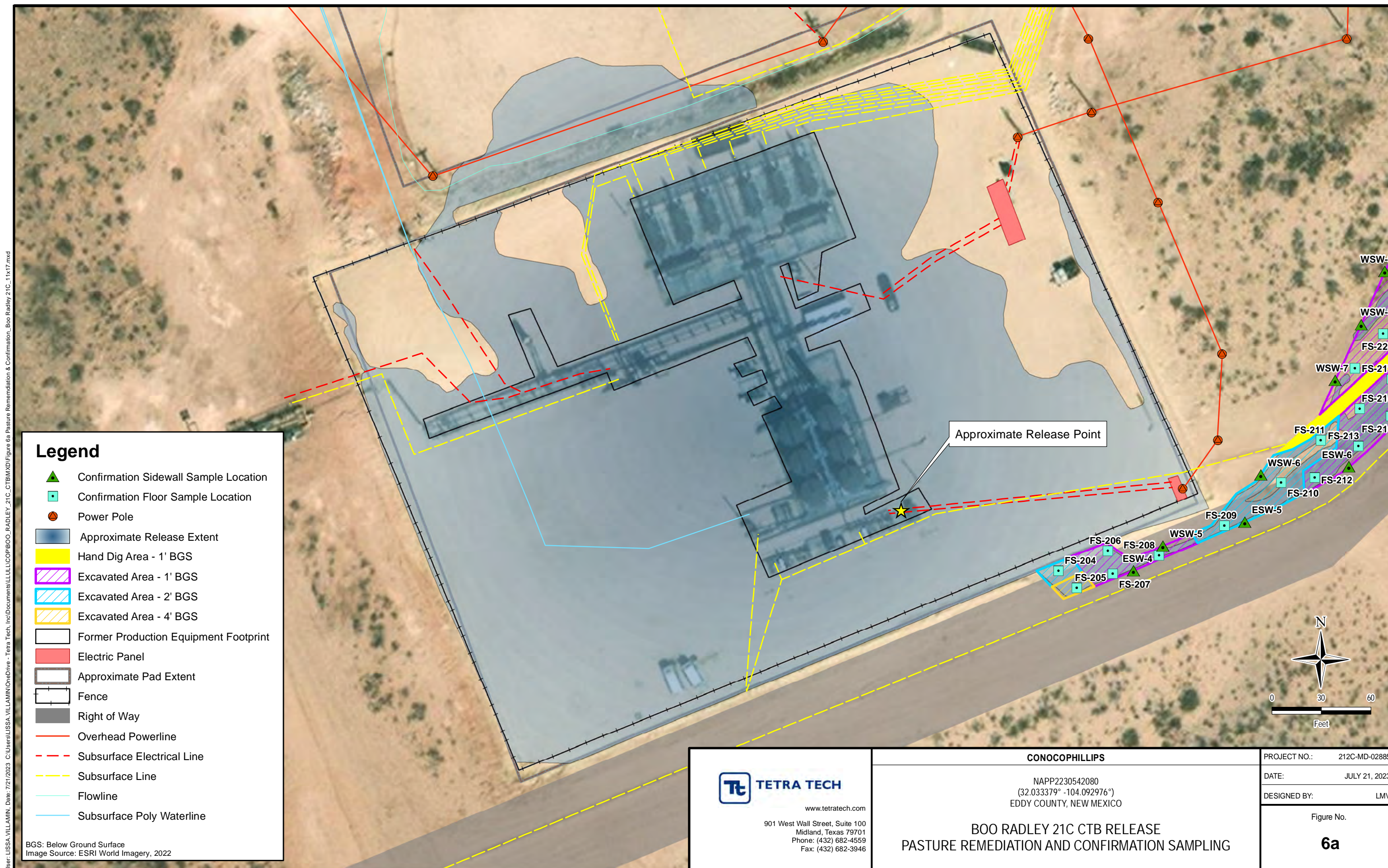
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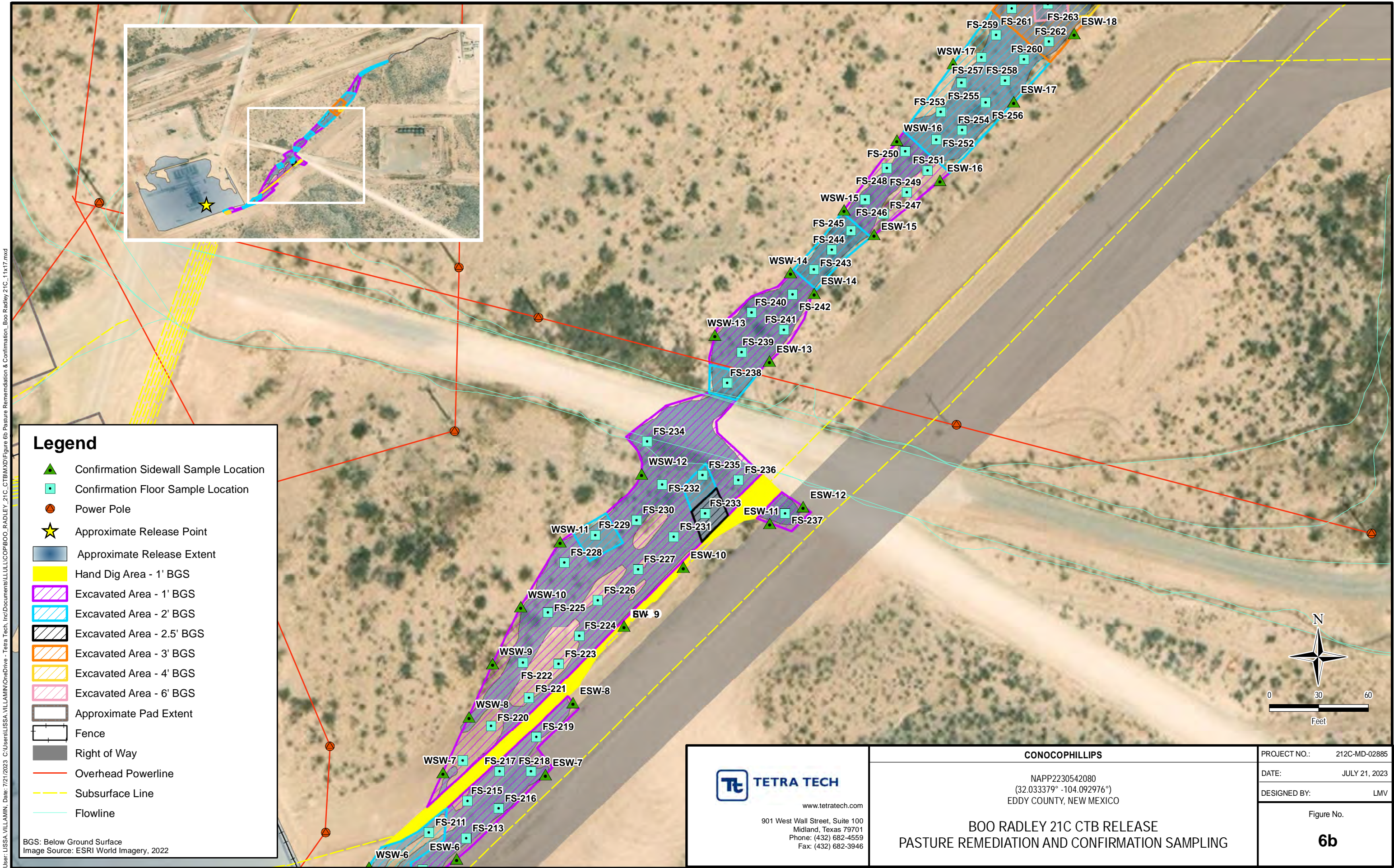
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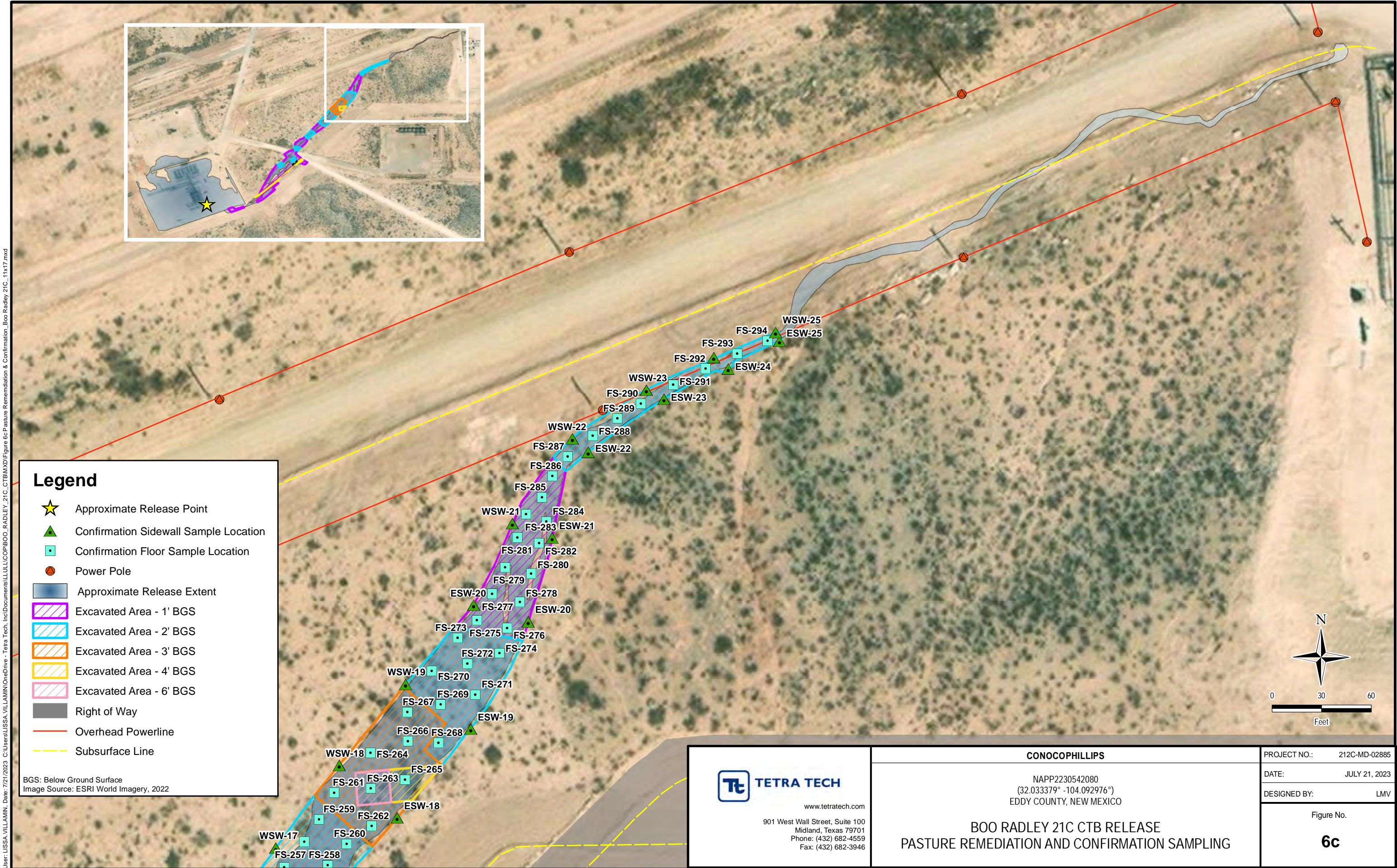












TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2022 SOIL ASSESSMENT- NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	mg/kg	Q	> C ₁₀ - C ₂₈	mg/kg	Q		> C ₂₈ - C ₃₆
AH-1	11/4/2022	0-1			4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		2-3			528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-2	11/4/2022	0-1			512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-3	11/4/2022	0-1			704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-4	11/4/2022	0-1			288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		2-3			128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-5	11/4/2022	0-1			592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-6	11/7/2022	0-1			1,820		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-7	11/7/2022	0-1			160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-8	11/7/2022	0-1			2,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-9	11/7/2022	0-1			9,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		2-3			1,570		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		3-4			912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-10	11/7/2022	0-1			4,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			1,570		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-11	11/7/2022	0-1			9,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-12	11/7/2022	0-1			112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-13	11/7/2022	0-1			64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-14	11/7/2022	0-1			160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-15	11/4/2022	0-1			64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-16	11/7/2022	0-1			64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-17	11/7/2022	0-1			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-18	11/7/2022	0-1			96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.9		<10.0			10.9
AH-19	11/7/2022	0-1			64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-20	11/7/2022	0-1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-21	11/7/2022	0-1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-22	11/7/2022	0-1			<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-23	11/7/2022	0-1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-24	11/7/2022	0-1			<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-25	11/10/2022	0-1			704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-26	11/10/2022	0-1			1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		1-2			448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-27	11/10/2022	0-1			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
		4-5			560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-28	12/6/2022	0-1			32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-29	12/6/2022	0-1			16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-
AH-30	12/6/2022	0-1			<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0			-

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2022 SOIL ASSESSMENT- NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEx ²										TPH ³						
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		Gro		Dro		Ext Dro		Total TPH
			Chloride	Titration	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
		ft. bgs		ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₃₆		
AH-31	12/6/2022	0-1			<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		38.1		<10.0		38.1
AH-32	12/6/2022	0-1			208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-33	12/6/2022	0-1			112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		29.5		<10.0		29.5
AH-34	12/6/2022	0-1			16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-1	12/1/2022	0-6 (in)	780		240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)	2,120	1,180	1,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	1,470	380	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	1,660		336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6	1,490	320	288		NA		NA		NA		NA		NA		NA		NA		NA		-
T-2	12/1/2022	7-8	1,160	200	160		NA		NA		NA		NA		NA		NA		NA		NA		-
		0-6 (in)	2,700		2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)	5,820		5,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	712		448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	810		352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-3	12/1/2022	5-6			320		NA		NA		NA		NA		NA		NA		NA		NA		-
		0-6 (in)	1,650		624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		36.5		<10.0		36.5
		6-12 (in)	1,830		816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		60.5		<10.0		60.5
		1-2	2,750		1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	3,280		2,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-3A	12/6/2022	5-6			3,080		NA		NA		NA		NA		NA		NA		NA		NA		-
		0-6 (in)			1,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)			1,250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-4	12/1/2022	3-4			112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		0-6 (in)	7,340		9,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)	2,310	800	1,230		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	1,480		288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	1,830		752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		27.3		<10.0		27.3
T-5	12/2/2022	5-6	1,180		320		NA		NA		NA		NA		NA		NA		NA		NA		-
		7-8	662		288		NA		NA		NA		NA		NA		NA		NA		NA		-
		0-1	2,370		2,040		0.089		1.31		1.31		22.8		25.5		842		17,700		2,860		21,402
		1-2	2,850		1,660		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.1		<10.0		16.1
		3-4	1,610		320		<0.050		<0.050		<0.050		<0.150		<0.300		19.2		528		53.9		601.1
T-6	12/1/2022	5-6	1,720		1,090		<0.050		<0.050		<0.050		<0.150		<0.300		14.3		693		61.7		769
		7-8	1,630		400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		33.5		<10.0		33.5
		0-6 (in)			256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)			704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-6	12/1/2022	3-4			80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6			32		NA		NA		NA		NA		NA		NA		NA		NA		-
		7-8			16		NA		NA		NA		NA		NA		NA		NA		NA		-

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2022 SOIL ASSESSMENT- NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³						
			Chloride	Titration			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	
T-7	12/2/2022	0-1			4,720		<0.200		3.9		2.09		29.5		35.6		1,270		19,900		4,280		25,450
		1-2			960		<0.050		<0.050		<0.050		0.284		0.334		<10.0		29.0		<10.0		29.0
		3-4			80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6			400		NA		NA		NA		NA		NA		NA		NA		NA		-
		7-8			80		NA		NA		NA		NA		NA		NA		NA		NA		-
T-8	12/1/2022	0-6 (in)	2,590		3,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2,280		714		2,994
		6-12 (in)	1,510		384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2	1,630		480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		70.0		<10.0		70.0
T-9	12/1/2022	0-6 (in)	4,130		2,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		479		90.5		569.5
		6-12 (in)	4,440		4,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		81.9		11.7		93.6
		1-2			176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4			128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-10	12/1/2022	0-6 (in)	1,140		224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)	1,230	400	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			1,300		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4			512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6			208		NA		NA		NA		NA		NA		NA		NA		NA		-
		7-8			176		NA		NA		NA		NA		NA		NA		NA		NA		-
T-11	12/1/2022	0-6 (in)			640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)			4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4			176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6			784		NA		NA		NA		NA		NA		NA		NA		NA		-
		7-8			64		NA		NA		NA		NA		NA		NA		NA		NA		-
T-12	12/1/2022	0-6 (in)			192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		93.2		47.6		140.8
		6-12 (in)			512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		31.8		13.4		45.2
		1-2			80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4			240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6			256		NA		NA		NA		NA		NA		NA		NA		NA		-
T-13	12/1/2022	0-6 (in)	425		96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)	394	200	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-14	12/1/2022	0-6 (in)	2,140		928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-12 (in)	2,290	920	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-15	12/6/2022	0-1			928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			3,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4			144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-16	12/6/2022	0-1			1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		1-2			128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4			64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6			256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2022 SOIL ASSESSMENT- NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	Titration			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
							mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q	(GRO+DRO+EXT DRO)	mg/kg
BG-1	12/6/2022	0-1			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
		1-2			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
		3-4			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
		5-6			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
BG-2	12/6/2022	0-1			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
		1-2			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
		3-4			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	
		5-6			<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEX ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene										Total BTEX		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆	
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q								
NSW-2	3/1/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-4	2/17/2023	-	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-4 (5')*	3/1/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-5	2/17/2023	-	-	864		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		112		23.3		135.3	
NSW-5 (5')*	3/1/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14.3		<10.0		14.3	
NSW-6	2/17/2023	-	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		20.2		<10.0		20.2	
NSW-11	2/17/2023	-	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-12	3/2/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-13	3/2/2023	-	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-14	3/2/2023	-	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-15	3/2/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-16	3/2/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-17	3/2/2023	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-18	2/17/2023	-	-	4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-18 (5')*	7/19/2023	-	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.1		<10.0		10.1	
NSW-19	2/17/2023	-	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-20	2/17/2023	-	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		38.6		19.7		58.3	
E SW-1	3/1/2023	-	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-2	3/1/2023	-	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-3	3/1/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-4	7/12/2023	-	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-5	7/12/2023	-	-	3200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-5 (2')*	7/18/2023	-	-	1280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-5 (3')**	7/19/2023	-	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.1		<10.0		13.1	
E SW-6	7/12/2023	-	-	4160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-6 (2')*	7/17/2023	-	-	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-7	7/12/2023	-	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-8	7/12/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-9	7/12/2023	-	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-10	7/12/2023	-	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-11	7/13/2023	-	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-12	7/13/2023	-	-	4120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-12 (2')*	7/17/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-13	7/13/2023	-	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-14	7/13/2023	-	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-15	7/10/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-16	7/10/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-17	7/10/2023	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-18	7/6/2023	-	326	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-19	7/6/2023	-	358	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEX ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene																Total BTEX	
			Chlorides					ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		
E SW-20	7/6/2023	-	339	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-21	7/6/2023	-	372	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-22	7/13/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-23	7/13/2023	-		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-24	7/17/2023	-		704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-24 (2')*	7/18/2023	-		32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
E SW-25	7/17/2023	-		176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1	2/16/2023	-	-	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1 (4')	7/13/2023	-	-	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1 (5')	7/18/2023	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-2	2/16/2023	-	-	2,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-2 (4')*	7/13/2023	-	-	11,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-2 (5')**	7/18/2023	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-3	2/17/2023	-	-	1,630		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-3 (4')	7/13/2023	-	-	7,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-3 (5')	7/18/2023	-	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-4	2/17/2023	-	-	4,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-4 (4')*	7/13/2023	-	-	15,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-4 (5')**	7/18/2023	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-5	2/17/2023	-	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-5 (4')*	7/13/2023	-	-	1040.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-5 (5)**	7/18/2023	-	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-1	2/16/2023	-	-	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-1 (4')*	7/13/2023	-	-	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-1 (5')**	7/18/2023	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-2	2/17/2023	-	-	4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.9		<10.0		18.9	
WSW-2 (4')*	7/13/2023	-	-	6,930		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-2 (5')**	7/18/2023	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-3	2/17/2023	-	-	1,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-3 (4')*	7/13/2023	-	-	16,700	S-04	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-3 (5')**	7/18/2023	-	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-4	7/13/2023	-	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-4 (1')*	7/18/2023	-	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-5	7/18/2023	-	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-6	7/12/2023	-	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-7	7/12/2023	-	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-8	7/12/2023	-	-	3320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-8 (2')*	7/18/2023	-	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEx ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEx								Total TPH (GRO+DRO+EXT DRO)	
			Chlorides	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg						
		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	
WSW-9	7/12/2023	-	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-10	7/12/2023	-	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-10 (2')*	7/17/2023	-	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-11	7/13/2023	-	-	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-11 (2')*	7/17/2023	-	-	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-12	7/13/2023	-	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-13	7/13/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-14	7/13/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-15	7/10/2023	-	-	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-15 (2')*	7/13/2023	-	-	1280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-15 (4)**	7/17/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-16	7/10/2023	-	-	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-16 (2')*	7/13/2023	-	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-17	7/10/2023	-	-	832		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.2		<10.0		12.2	
WSW-17 (2')*	7/13/2023	-	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-18	7/6/2023	-	796	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-19	7/6/2023	-	460	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-20	7/6/2023	-	252	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-21	7/10/2023	-	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-22	7/13/2023	-	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-23	7/17/2023	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-24	7/17/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-25	7/17/2023	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-1	2/23/2023	4.5	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-2	2/21/2023	1	-	1,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-2 (2')*	2/24/2023	2	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-2 (3')**	3/1/2023	3	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-3	2/20/2023	1	-	2,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-3 (2')*	2/23/2023	2	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-4	2/20/2023	1	-	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-5	2/20/2023	1	-	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-6	2/20/2023	1	-	1,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-6 (2')*	2/23/2023	2	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-7	2/20/2023	1	-	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-7 (2')*	2/23/2023	2	-	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-8	2/20/2023	1	-	2,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-8 (3')*	2/23/2023	3	-	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-10	2/15/2023	0.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEx ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
				Chloride		Benzene								Total BTEx								Total TPH (GRO+DRO+EXT DRO)	
Sample ID	Sample Date	Sample Depth	Field Screening Results	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg			
			Chlorides	Q	Q	Q	Q	Q	Q	Q	Q	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆								
		ft. bgs	ppm																				
FS-11	2/15/2023	0.5	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-11 (1)*	2/20/2023	1	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-12	2/20/2023	1	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-13	2/20/2023	1	-	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-13 (2)*	2/23/2023	2	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-14	2/20/2023	1	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-15	2/20/2023	1	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-16	2/20/2023	1	-	944		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-16 (2)*	2/23/2023	2	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-17	2/20/2023	1	-	1,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-17 (2)*	2/23/2023	2	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-18	2/20/2023	1	-	2,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-18 (2)*	2/23/2023	2	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-19	2/21/2023	1	-	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-19 (2)*	2/24/2023	2	-	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-19 (3)**	3/1/2023	3	-	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-20	2/21/2023	1	-	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-20 (2)*	2/24/2023	2	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-21	2/21/2023	1	-	1,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-21 (2)*	2/24/2023	2	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-22	2/15/2023	3	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-23	2/15/2023	3	-	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-24	2/15/2023	3	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-25	2/15/2023	3	-	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-26	2/15/2023	3	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-27	2/15/2023	3	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-28	2/15/2023	3	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-29	2/21/2023	1	-	1,630		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-29 (2)*	2/24/2023	2	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-30	2/21/2023	1	-	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-30 (2)*	2/24/2023	2	-	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-30 (3)**	3/1/2023	3	-	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-30 (4)***	3/2/2023	4	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-31	2/21/2023	1	-	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-32	2/27/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		28.1		<10.0	28.1		
FS-38	2/15/2023	0.5	-	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-39	2/15/2023	0.5	-	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-40	3/1/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-41	3/1/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		20.6		<10.0	20.6		
FS-42	3/1/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEx ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
				Chloride		Benzene																Total TPH (GRO+DRO+EXT DRO)	
Sample ID	Sample Date	Sample Depth	Field Screening Results	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg			
			Chlorides	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg						
FS-43	3/1/2023	2	-	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-44	3/1/2023	2	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-45	2/15/2023	0.5	-	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-45 (1.5')*	2/24/2023	1.5	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-46	2/15/2023	0.5	-	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-46 (1.5')*	2/15/2023	1.5	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-47	2/15/2023	0.5	-	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-47 (2')*	2/27/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		40.0		<10.0	40.0		
FS-48	2/27/2023	2	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-49	2/10/2023	0.5	-	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-49 (2')*	2/27/2023	2	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-50	2/27/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-51	2/21/2023	1	-	1,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-51 (2')*	2/24/2023	2	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-52	2/21/2023	1	-	2,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-52 (2')*	2/24/2023	2	-	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-53	2/21/2023	1	-	1,800	QM-07	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-53 (2')*	2/24/2023	2	-	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-53 (3')**	3/1/2023	3	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-54	2/21/2023	1	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-55	2/21/2023	1	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-56	2/21/2023	1	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-57	2/21/2023	1	-	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-58	2/21/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-59	2/27/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		56.4		<10.0	56.4		
FS-60	2/27/2023	2	-	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		21.6		<10.0	21.6		
FS-61	2/10/2023	0.5	3,650	1,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-61 (2')*	2/27/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-62	2/27/2023	2	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-63	2/27/2023	2	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-64	2/24/2023	1.5	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-65	2/10/2023	0.5	2,200	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-66	2/24/2023	1.5	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-67	3/1/2023	2	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-68	2/27/2023	2	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-69	2/10/2023	0.5	1,960	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-70	2/27/2023	2	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-71	2/27/2023	2	-	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-72	2/28/2023	1.5	-	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
FS-72 (3')*	3/1/2023	3	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEx ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEx								C ₆ - C ₁₀	
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg	Q	mg/kg	Q	mg/kg	Q		
FS-73	2/28/2023	1.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-74	2/28/2023	1.5	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-75	2/23/2023	1	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-76	2/28/2023	1.5	-	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-77	2/15/2023	0.5	-	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		10.2		10.2	
FS-78	2/21/2023	1	-	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-79	2/21/2023	1	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-80	2/21/2023	1	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-81	2/21/2023	1	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-82	2/21/2023	1	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-83	2/15/2023	0.5	-	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		28.7		<10.0		28.7	
FS-83 (1')*	2/23/2023	1	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-84	2/15/2023	0.5	-	1,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-84 (1.5')*	2/28/2023	1.5	-	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-85	2/28/2023	1.5	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-85 (3')*	3/1/2023	3	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-86	2/28/2023	1.5	-	224		<0.050		<0.050		<0.050		<0.0150		<0.300		<10.0		<10.0		<10.0		-	
FS-87	2/28/2023	1.5	-	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-87 (3')*	3/1/2023	3	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-88	2/28/2023	2	-	1,630		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-88 (4')*	3/1/2023	4	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-89	2/27/2023	2	-	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-90	2/10/2023	0.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-91	2/16/2023	0.5	-	736	QM-07	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		260		53.5		313.5	
FS-91 (2')*	2/27/2023	2	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-92	2/16/2023	0.5	-	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		53.3		<10.0		53.3	
FS-92 (2')*	2/27/2023	2	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-93	3/1/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-94	2/10/2023	0.5	594	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		31.9		<10.0		31.9	
FS-95	2/16/2023	0.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		23.4		<10.0		23.4	
FS-96	2/16/2023	0.5	-	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		147		24.7		171.7	
FS-96 (2')*	2/27/2023	2	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-97	2/28/2023	2	-	160		<0.050		<0.050		<0.050		<0.0150		<0.300		<10.0		<10.0		<10.0		-	
FS-98	2/28/2023	2	-	160		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-99	2/28/2023	2	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-100	2/28/2023	2	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-101	2/28/2023	1.5	-	896		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-101 (3')*	3/1/2023	3	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-102	2/28/2023	1.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEX ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene																Total BTEX	Total TPH (GRO+DRO+EXT DRO)
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
FS-103	2/23/2023	1	-	944		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-103 (1.5')*	2/28/2023	1.5	-	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-103 (3')**	3/1/2023	3	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-104	2/28/2023	1.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-105	2/15/2023	0.5	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.9		<10.0		12.9	
FS-106	2/21/2023	1	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-107	2/21/2023	1	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-108	2/21/2023	1	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-109	2/21/2023	1	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-110	2/21/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-111	2/23/2023	1	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-112	2/15/2023	0.5	-	1,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.6		<10.0		10.6	
FS-112 (1.5')*	2/28/2023	1.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-113	2/28/2023	1.5	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-114	2/15/2023	0.5	-	896		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-114 (1.5')*	2/28/2023	1.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-115	2/28/2023	1.5	-	976		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-115 (3')*	3/1/2023	3	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-116	2/28/2023	2	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-117	2/28/2023	2	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-118	2/28/2023	2	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-119	2/28/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-120	2/28/2023	2	-	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.8		<10.0		12.8	
FS-121	2/28/2023	2	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-122	2/16/2023	0.5	-	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		161		32.9		193.9	
FS-122 (2')*	2/27/2023	2	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		63.4		<10.0		63.4	
FS-123	2/16/2023	0.5	-	1,070		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		212		40.1		252.1	
FS-123 (2')*	2/27/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		42.3		<10.0		42.3	
FS-126	2/24/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-126 (2')*	2/28/2023	2	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-127	2/28/2023	2	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-128	2/28/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-129	2/28/2023	2	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-130	2/28/2023	2	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-131	2/28/2023	2	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-132	2/15/2023	0.5	-	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-132 (1.5')*	2/28/2023	1.5	-	1,650		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-132 (4')**	3/1/2023	4	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-133	2/27/2023	1.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		36.8		<10.0		36.8	
FS-134	2/27/2023	1.5	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		35.2		<10.0		35.2	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEX ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	
			Chlorides					ppm	mg/kg	Q	mg/kg	Q	mg/kg			Q	mg/kg	Q	mg/kg	Q	mg/kg		
FS-135	2/27/2023	1.5	-	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		34.2		<10.0		34.2	
FS-136	2/27/2023	1.5	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		33.2		<10.0		33.2	
FS-137	2/16/2023	0.5	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-138	2/16/2023	0.5	-	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-138 (1)*	2/23/2023	1	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-139	2/23/2023	1	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-140	2/27/2023	1.5	-	348		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		52.2		<10.0		52.2	
FS-141	2/27/2023	1.5	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		45.2		<10.0		45.2	
FS-142	2/27/2023	1.5	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		47.2		<10.0		47.2	
FS-143	2/28/2023	1.5	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-144	2/28/2023	2	-	1,580		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-144 (4)*	3/1/2023	4	-	80.0		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-145	2/24/2023	2	-	160		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-146	2/24/2023	2	-	160		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-149	2/24/2023	2	-	112		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-150	2/24/2023	2	-	160		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-151	2/24/2023	2	-	400		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-152	2/28/2023	1.5	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-153	2/27/2023	1.5	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-154	2/27/2023	1.5	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-155	2/27/2023	1.5	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.7		<10.0		12.7	
FS-156	2/27/2023	1.5	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-157	2/27/2023	1.5	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-158	2/28/2023	1.5	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-159	2/28/2023	1.5	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-160	2/24/2023	2	-	128		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-161	2/24/2023	2	-	320		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-162	2/24/2023	2	-	144		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-	
FS-163	2/28/2023	1.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-164	2/27/2023	1.5	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-165	2/27/2023	1.5	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-166	2/27/2023	1.5	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-167	2/27/2023	1.5	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-168	2/15/2023	4.5	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.6		13.7		30.3	
FS-169	2/15/2023	4.5	-	64.0		<0.050		<0.050		<0.050		0.461		0.461		45.1		1,260		190		1,495	
FS-169 (6)*	2/21/2023	6	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-170	2/15/2023	4.5	-	304	S-04	<0.050		0.078	GC-NC1	0.198		3.88		4.15		222		3,230		478		3,930	
FS-170 (6)*	2/21/2023	6	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-171	2/15/2023	4.5	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		331		88.8		419.8	
FS-171 (6)*	2/21/2023	6	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEx ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEx								Total TPH (GRO+DRO+EXT DRO)	
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆			
		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	
FS-172	2/15/2023	4.5	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		460		86.3		546.3	
FS-172 (6)*	2/21/2023	6	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		23.1		<10.0		23.1	
FS-173	2/15/2023	4.5	-	304	S-04	<0.050		0.066	GC-NC1	0.186		3.49		3.74		265		3,870		582		4,717	
FS-173 (6)*	2/21/2023	6	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		410		71.9		481.9	
FS-173 (6.5)*	2/23/2023	6.5	-	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-174	2/15/2023	4.5	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		343		103		446	
FS-174 (6)*	2/21/2023	6	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-175	2/16/2023	2	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-176	2/16/2023	2	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-177	2/16/2023	2	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-178	2/16/2023	2	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.7		<10.0		22.7	
FS-179	2/16/2023	5	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-180	2/16/2023	5	-	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-181	2/16/2023	5	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-182	2/16/2023	5	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-183	2/16/2023	2	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-184	2/16/2023	2	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-185	2/16/2023	2	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-186	2/16/2023	2	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-186 (5)*	2/21/2023	5	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-187	2/16/2023	5	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-188	2/16/2023	5	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-189	2/16/2023	5	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-190	3/2/2023	1.5	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-191	3/2/2023	1.5	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-192	3/2/2023	1.5	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-193	3/2/2023	1.5	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-194	3/2/2023	1.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-195	3/2/2023	1.5	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-197	3/2/2023	1.5	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-198	3/2/2023	1.5	-	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-199	3/2/2023	1.5	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-200	3/2/2023	1.5	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-200 (2)*	3/6/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-201	3/2/2023	1.5	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-202	3/2/2023	1.5	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-203	3/2/2023	1.5	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-204	7/13/2023	1	-	1,150		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-204 (2)*	7/18/2023	2	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEX ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆			
		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	
FS-205	7/12/2023	1	-	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-205 (2')*	7/18/2023	2	-	1260		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-205 (4')**	7/19/2023	4	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-206	7/13/2023	1	-	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-207	7/12/2023	1	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-208	7/12/2023	1	-	496		<0.050		<0.050		<0.050	QM-07	<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-209	7/12/2023	1	-	1,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-209 (2')*	7/18/2023	2	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-210	7/12/2023	1	-	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-210 (2')*	7/18/2023	2	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-211	7/12/2023	1	-	1250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-211 (2')*	7/18/2023	2	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-212	7/12/2023	1	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-213	7/12/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-214	7/12/2023	1	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-215	7/12/2023	1	-	112.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-216	7/12/2023	1	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-217	7/12/2023	1	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-218	7/12/2023	1	-	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-219	7/12/2023	1	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-220	7/12/2023	1	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-221	7/12/2023	1	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-222	7/12/2023	1	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-223	7/12/2023	1	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.9		<10.0		12.9	
FS-224	7/12/2023	1	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-225	7/12/2023	1	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-226	7/12/2023	1	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-227	7/12/2023	1	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-228	7/12/2023	1	-	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-229	7/12/2023	1	-	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-229 (2')*	7/17/2023	2	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-230	7/13/2023	1	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-231	7/13/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-232	7/13/2023	1	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-233	7/13/2023	1	-	976		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-233 (2')*	7/17/2023	2	-	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-233 (3')**	7/18/2023	3	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-234	7/13/2023	1	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-235	7/13/2023	1	-	4120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-235 (2')*	7/17/2023	2	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
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2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEX ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEX								C ₆ - C ₁₀	> C ₁₀ - C ₂₈
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg	Q	mg/kg	Q	mg/kg	Q		
FS-236	7/13/2023	1	-	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-237	7/13/2023	1	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-238	7/12/2023	1	-	3360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-238 (2)*	7/17/2023	2	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-239	7/12/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-240	7/12/2023	1	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-241	7/12/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-242	7/12/2023	1	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-243	7/12/2023	1	-	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-243 (2)*	7/17/2023	2	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-244	7/6/2023	1	1740	1,140		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-244 (2)*	7/17/2023	2	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-245	7/6/2023	1	2050	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.6		<10.0		12.6	
FS-245 (2)*	7/17/2023	2	-	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-246	7/6/2023	1	1310	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-247	7/6/2023	1	1080	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-248	7/6/2023	1	1050	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-249	7/6/2023	1	942	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-250	7/6/2023	1	989	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-251	7/6/2023	1	984	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-252	7/10/2023	2	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-253	7/10/2023	2	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-254	7/10/2023	2	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-255	7/10/2023	2	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-256	7/10/2023	2	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-257	7/10/2023	2	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-258	7/10/2023	2	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-259	7/10/2023	2	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-260	7/10/2023	2	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-261	7/10/2023	3	-	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-262	7/10/2023	3	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-263	7/6/2023	3	1380	1,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-263 (4)*	7/12/2023	4	-	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-263 (5)**	7/17/2023	5	-	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-263 (6)***	7/18/2023	6	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-264	7/6/2023	3	1013	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-265	7/6/2023	3	1830	2,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-265 (4)*	7/12/2023	4	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-266	7/6/2023	3	948	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL CONFIRMATION - NAPP2230542080
CONOCOPHILLIPS
BOO RADLEY 21 C FEDERAL CTB RELEASE
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):				Chlorides ¹		BTEx ²										TPH ³							
				< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride		Benzene								Total BTEX								C ₆ - C ₁₀	> C ₁₀ - C ₂₈
			Chlorides					mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg	Q	mg/kg	Q	mg/kg	Q		
FS-267	7/6/2023	2	1590	1,220		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-267 (3)*	7/12/2023	3	-	192		<0.050	QM-07	<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-268	7/6/2023	2	934	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-269	7/6/2023	2	1110	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-270	7/6/2023	2	734	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-271	7/6/2023	2	986	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-272	7/6/2023	2	856	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-273	7/6/2023	2	533	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-274	7/6/2023	2	821	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-275	7/10/2023	1	-	224	QR-03	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-276	7/10/2023	1	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-277	7/10/2023	1	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-278	7/10/2023	1	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-279	7/10/2023	1	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-280	7/10/2023	1	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-281	7/10/2023	1	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-282	7/10/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-283	7/10/2023	1	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-284	7/10/2023	1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-285	7/10/2023	1	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-286	7/10/2023	1	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-287	7/17/2023	2	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-288	7/17/2023	2	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-289	7/17/2023	2	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-290	7/17/2023	2	-	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-291	7/17/2023	2	-	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-292	7/13/2023	2	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-293	7/13/2023	2	-	320	S-04	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-294	7/13/2023	2	-	320	S-04	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

Bold and italicized values indicate exceedance of Site RRALs.

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

QUALIFIERS:

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-04 The RPD for the BS/BSD was outside historical limits.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2230542080
District RP	
Facility ID	fAPP2206853797
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacqui Harris	Contact Telephone	(575) 496-0780
Contact email	Jacqui.Harris@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2230542080
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.0337 Longitude -104.0929
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Boo Radley Federal 21 C CTB	Site Type	Tank Battery
Date Release Discovered	October 18, 2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
C	21	26S	28E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	500	Volume Recovered (bbls)	unknown
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	2250	Volume Recovered (bbls)	unknown
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

The release was caused by unclosed ESD's on wells, which sent fluid to the combustor and resulted in a fire. The amounts lost were calculated using tank measurements taken before the fire. The fire and addition of water from the fire department hindered the estimation of the amount of fluid recovered. The fire remained on pad. The release of liquids ran off pad and along a ROW. An initial assessment will be conducted, and the depth of impact evaluated.

Incident ID	NAPP2230542080
District RP	
Facility ID	fAPP2206853797
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release involved a fire and was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given by Jacqui Harris via e-mail October 18, 2022 at 1:59 pm to ocd.enviro@state.nm.us.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Brittany N. Esparza	Title: Environmental Technician
Signature: 	Date: 11/1/2022
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u> Received by: Jocelyn Harimon Date: 11/01/2022	

Released to Imaging: 1/9/2024 2:20:21 PM

Incident ID	NAPP2230542080
District RP	
Facility ID	fAPP2206853797
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	> 59 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input checked="" type="checkbox"/> Field data<input checked="" type="checkbox"/> Data table of soil contaminant concentration data<input checked="" type="checkbox"/> Depth to water determination<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input checked="" type="checkbox"/> Photographs including date and GIS information<input checked="" type="checkbox"/> Topographic/Aerial maps<input checked="" type="checkbox"/> Laboratory data including chain of custody
--

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

Incident ID	NAPP2230542080
District RP	
Facility ID	fAPP2206853797
Application ID	

Remediation Plan


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

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

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

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

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

Printed Name: Ike Tavaréz _____ Title: Program Manager, Remediation _____
Signature:  _____ Date: 12/21/2022 _____
email: ike.tavaréz@conocophillips.com _____ Telephone: 432-685-2573 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 12/21/2022 _____

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  _____ Date: 2/2/2023 _____

Incident ID	
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.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02160 S7	CUB	ED		3	3	1	22	26S	28E	586638	3543998*	1112	300	120	180

Average Depth to Water: **120 feet**

Minimum Depth: **120 feet**

Maximum Depth: **120 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 585643.28

Northing (Y): 3544495.13

Radius: 1200

*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.

11/16/22 10:45 AM

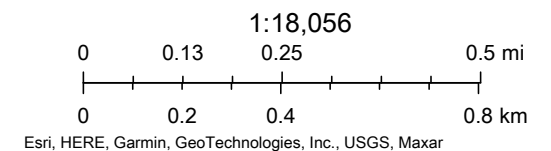
Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



11/10/2022, 9:12:04 AM

▲ USGS Historical GW Wells





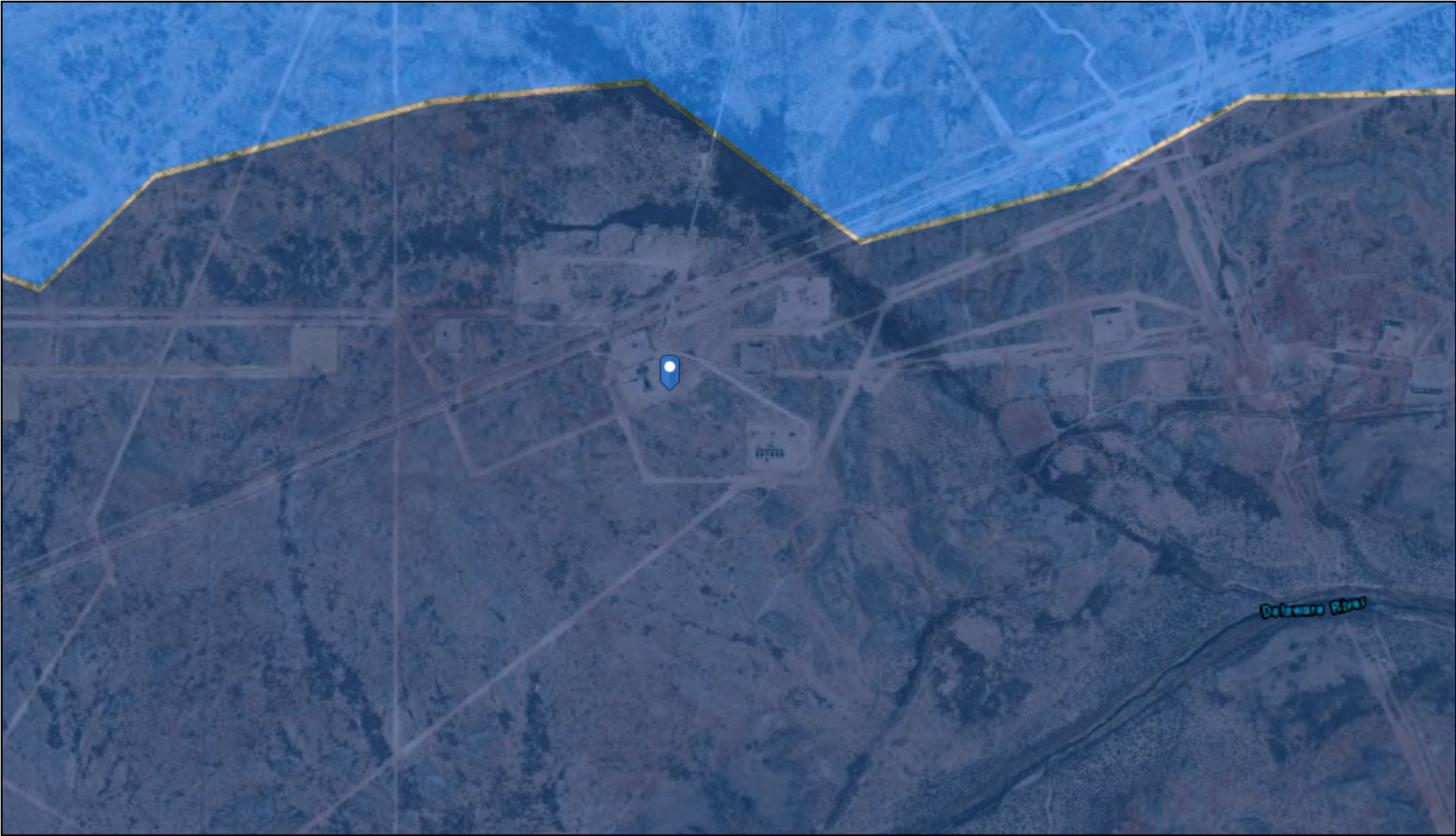
Project Name :	Diamondback 22 State 2H(08.30.2021)	Date :	November 16, 2021
Project No. :	214634	Sampler :	Clint Merritt
Location :	Eddy Co, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.03314°, -104.08201°	Method :	Air Rotary
Elevation :	2,991'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Yellowish Orange/White well graded gravel with <50% coarse sand and caliche (GW). Dry		50		(50') - Light brown soft clay with <50% fine loose sand (CL). Dry	
5		(5') - Light reddish brown loose, medium sand with <50% fine well cemented gravel (SW). Dry		55			
10		(10') - Light reddish brown/ white loose fine sand with <25% fine well cemented gravel (SW). Dry		60		(59') - Light brown soft clay with 50% fine loose sand (CL). Moist	
15				65			
20		(20') - Light brown loose fine sand with <25% fine poorly cemented gravel and trace gypsum (SM). Dry		70			
25		(25') - White fine very loose sand with 100% gypsum (ML). Dry		75			
30				80			
35				85			
40				90			
45				95			
50				100			

Comments : Total Depth 59' bgs
Drilling Terminated @ 14:00 CT No groundwater present

On 11/19/2021 No groundwater present

OCD Karst Potential Map



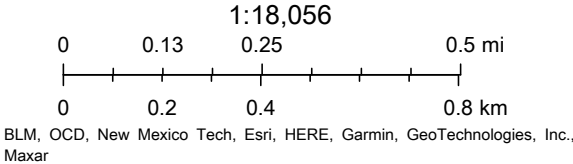
11/10/2022, 9:11:20 AM

Karst Occurrence Potential

High

Medium

Released to Imaging: 1/9/2024 2:20:21 PM

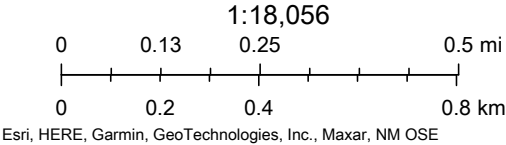


OCD Waterbodies Map



11/10/2022, 9:12:33 AM

— OSE Streams



APPENDIX C

Regulatory Correspondence

Poole, Nicholas



From: Llull, Christian
Sent: Tuesday, November 15, 2022 4:36 PM
To: Tavaréz, Ike
Cc: Poole, Nicholas; Chavira, Lisbeth
Subject: Fwd: NMCRIS 151354 submittal

Ike,

SLO has approved the cultural survey at Boo Radley.

Christian

From: Alissa Healy <Alissa.Healy@swca.com>
Sent: Tuesday, November 15, 2022 1:18 PM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: FW: NMCRIS 151354 submittal

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

Hi Christian –

Please see below for the SLO concurrence that you are approved to begin remediations at the Boo Radley Site.
Please let me know if you have any questions.

Thank you,
Alissa

From: Tsesmeli, Evangelia <etsesmeli@slo.state.nm.us>
Sent: Tuesday, November 15, 2022 12:16 PM
To: Alissa Healy <Alissa.Healy@swca.com>; SLO CRO <CRO@slo.state.nm.us>
Subject: RE: NMCRIS 151354 submittal

EXTERNAL: This email originated from outside SWCA. Please use caution when replying.

Hello Alissa,

From a cultural resource protection standpoint, this negative NIAF and the absence of any presence of the two sites despite relocation efforts demonstrates that remediation of this area will have no adverse impact on any cultural properties. The proponent is free to proceed with remediation under whatever instrument authorizes their entry onto trust lands for that purpose.

Thank you,



Lia Tsesmeli, Ph.D.

Cultural Resources Office Manager

Trust Land Archaeologist

Cultural Resources Office

505.827.5792 Office

505.469.2894 Mobile

New Mexico State Land Office

310 Old Santa Fe Trail

P.O. Box 1148



Santa Fe, NM 87504-1148

etsesmeli@slo.state.nm.us

nmstatelands.org

.....
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From: Alissa Healy <Alissa.Healy@swca.com>

Sent: Tuesday, November 15, 2022 9:19 AM

To: SLO CRO <CRO@slo.state.nm.us>

Subject: [EXTERNAL] NMCRIS 151354 submittal

Good morning,

Please see attached the NIAF and two LA forms for the not located LA 177231 and LA 66113. Please let me know if you agree that Tetra Tech is approved to begin remediations of the Boo Radley inadvertent release.

Thank you,

Alissa Healy | she, her, hers
Cultural Resources Team Lead

SWCA Environmental Consultants

7770 Jefferson Street NE, Suite 410

Albuquerque, New Mexico, 87109

P 505.234.6841



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Parkey, Jayce

From: OCDOnline@state.nm.us
Sent: Thursday, February 2, 2023 10:22 AM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 169450

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

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2230542080, with the following conditions:

- **The Remediation Plan is Conditionally Approved. Sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. A variance for sidewall/floor confirmation samples every 600 ft² on-pad and 400 ft² off-pad is approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. If rock refusal interferes with the remediation process, use a back-hoe/track-hoe to remove the rock. If the rock is immovable and target depth cannot be reached, use a hydrovac to clean the contaminated soil off the rock surface and outline specific locations and steps taken on the Closure Report. Back-fill with clean material. The work will need to occur in 90 days after the work plan has been approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

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

Poole, Nicholas

From: Llull, Christian
Sent: Friday, April 21, 2023 8:54 AM
To: Poole, Nicholas; Dickerson, Ryan
Subject: FW: (Final Extension) - NAPP2230542080 - COG - Boo Radley 21C CTB Release

Extension approved – please save to Regulatory

Christian

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, April 21, 2023 8:34 AM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: (Final Extension) - NAPP2230542080 - COG - Boo Radley 21C CTB Release

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

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RE: Incident #NAPP2230542080

Christian,

Your request for an extension to **July 17th, 2023** is approved. This will be the **Final Extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Thursday, April 20, 2023 2:35 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: [EXTERNAL] (Extension Request 2) - NAPP2230542080 - Boo Radley 21C CTB Release

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Mr. Hamlet:

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 90-day extension (until July 17, 2023) to complete additional remedial activities in the pasture area and the ensuing closure reporting for the Boo Radley 21C CTB Release site (**NAPP2230542080**).

Justification for this request, including figures and analytical data showing the project progress of ConocoPhillips is attached and described below.

The initial extension was approved Thursday, January 19, 2023.

The Remediation WP for the entire release was approved on Thursday, February 02, 2023.

As described in the approved WP, ConocoPhillips has completed the first phase of work consisting of excavation and confirmation sampling for the on-pad area, inside the perimeter fence.

The estimated total volume of material remediated on pad was 7,850 cubic yards.

Please see attached laboratory analytical results from the confirmation sampling events, as well as a draft figure.

The resultant reconstruction of the battery pad is now complete.

The remedial action for the pasture area (second phase) is planned to begin now that the battery reconstruction project has concluded.

The pasture phase of the Work Plan (areas outside the perimeter fence) includes the removal of approximately 56,000 square feet of impacted area, for an additional 4,431 cubic yards of material.

ConocoPhillips plans to conduct the additional remediation in the pasture in the coming months, and once the confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD. Please let me know if you have any questions or concerns.

Christian

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>



Sent: Thursday, January 19, 2023 9:57 AM

To: Llull, Christian <Christian.Llull@tetrattech.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>

Subject: (Extension Approval) - NAPP2230542080 - Boo Radley 21C CTB Release

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RE: Incident #**NAPP2230542080**

Christian,

Your request for an extension to **April 17th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Wednesday, January 18, 2023 3:56 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: [EXTERNAL] (Extension Request 1) NAPP2230542080 - Boo Radley 21C CTB Release

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To whom it may concern:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until April 17, 2023) to complete the remediation and associated reporting for the Boo Radley 21C CTB Release site (**NAPP2230542080**).

On October 18, 2022, the subject line incident at the ConocoPhillips Boo Radley 21C CTB resulted in a full facility loss. The facility has been deconstructed. Reconstruction of the facility is scheduled to begin in March of 2023.

ConocoPhillips has taken a proactive approach and has assessed and evaluated the release at the Boo Radley 21C Central Tank Battery within 90 days of the release date. The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on December 21, 2022, with fee application payment PO Number N9F6M-221221-C-1410.

To meet the facility reconstruction timeline, an expedited review of this work plan was requested. As of today, the work plan has not yet been approved, however, remediation is tentatively scheduled to begin first week of February 2023. Notice of final confirmation sampling will be sent at that time. The requested 90-day extension will allow remedial action to be conducted at the Site. The pad area will be remediated first to allow for immediate facility reconstruction. Once the confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the NMOCD.

Thank you in advance.

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

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Poole, Nicholas

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, February 7, 2023 10:33 AM
To: Poole, Nicholas
Cc: Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Incident ID: NAPP2230542080 - Confirmation Sampling

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Nicholas,

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

Jocelyn

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



From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Tuesday, February 7, 2023 8:45 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] Incident ID: NAPP2230542080 - Confirmation Sampling

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Incident ID (n#) **NAPP2230542080** (Boo Radley 21C Federal CTB)

To whom it may concern,

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

Remediation activities on the lease pad portion of the release have begun, Monday, February 6, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling of the lease pad will be conducted at this site Thursday, February 9 through Tuesday, February 21, 2023.

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

Nicholas Poole | Staff Geoscientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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Poole, Nicholas

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, June 23, 2023 9:45 AM
To: Poole, Nicholas
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] FW: Incident ID: NAPP2230542080 - Confirmation Sampling

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Nicholas,

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

JH

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



From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Thursday, June 22, 2023 1:06 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] FW: Incident ID: NAPP2230542080 - Confirmation Sampling

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Incident ID (n#) **NAPP2230542080** (Boo Radley 21C Federal CTB)

To whom it may concern,

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

Remediation activities on the pasture portion of the release will begin Monday, June 26, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling of the pasture portion will be conducted at this site Tuesday, June 27 through Thursday, July 13, 2023.

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

Nicholas Poole | Staff Geoscientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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APPENDIX D

Laboratory Analytical Data



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

February 14, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 11:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/10/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 90 (6") (H230660-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2023	ND	2.10	105	2.00	5.92	
Toluene*	<0.050	0.050	02/13/2023	ND	2.09	104	2.00	6.21	
Ethylbenzene*	<0.050	0.050	02/13/2023	ND	2.04	102	2.00	6.18	
Total Xylenes*	<0.150	0.150	02/13/2023	ND	6.20	103	6.00	5.96	
Total BTEX	<0.300	0.300	02/13/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2023	ND	170	84.9	200	0.684	
DRO >C10-C28*	<10.0	10.0	02/13/2023	ND	175	87.6	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/10/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 69 (6") (H230660-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2023	ND	2.10	105	2.00	5.92		
Toluene*	<0.050	0.050	02/13/2023	ND	2.09	104	2.00	6.21		
Ethylbenzene*	<0.050	0.050	02/13/2023	ND	2.04	102	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/13/2023	ND	6.20	103	6.00	5.96		
Total BTEx	<0.300	0.300	02/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2023	ND	170	84.9	200	0.684	
DRO >C10-C28*	<10.0	10.0	02/13/2023	ND	175	87.6	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/10/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 65 (6") (H230660-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2023	ND	2.10	105	2.00	5.92		
Toluene*	<0.050	0.050	02/13/2023	ND	2.09	104	2.00	6.21		
Ethylbenzene*	<0.050	0.050	02/13/2023	ND	2.04	102	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/13/2023	ND	6.20	103	6.00	5.96		
Total BTEX	<0.300	0.300	02/13/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2023	ND	170	84.9	200	0.684	
DRO >C10-C28*	<10.0	10.0	02/13/2023	ND	175	87.6	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/10/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 49 (6") (H230660-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2023	ND	2.10	105	2.00	5.92		
Toluene*	<0.050	0.050	02/13/2023	ND	2.09	104	2.00	6.21		
Ethylbenzene*	<0.050	0.050	02/13/2023	ND	2.04	102	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/13/2023	ND	6.20	103	6.00	5.96		
Total BTEx	<0.300	0.300	02/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2023	ND	170	84.9	200	0.684	
DRO >C10-C28*	<10.0	10.0	02/13/2023	ND	175	87.6	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/10/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 94 (6") (H230660-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2023	ND	2.10	105	2.00	5.92		
Toluene*	<0.050	0.050	02/13/2023	ND	2.09	104	2.00	6.21		
Ethylbenzene*	<0.050	0.050	02/13/2023	ND	2.04	102	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/13/2023	ND	6.20	103	6.00	5.96		
Total BTEx	<0.300	0.300	02/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2023	ND	170	84.9	200	0.684	
DRO >C10-C28*	31.9	10.0	02/13/2023	ND	175	87.6	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/10/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 61 (6") (H230660-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/13/2023	ND	2.10	105	2.00	5.92		
Toluene*	<0.050	0.050	02/13/2023	ND	2.09	104	2.00	6.21		
Ethylbenzene*	<0.050	0.050	02/13/2023	ND	2.04	102	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/13/2023	ND	6.20	103	6.00	5.96		
Total BTX	<0.300	0.300	02/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2023	ND	170	84.9	200	0.684	
DRO >C10-C28*	<10.0	10.0	02/13/2023	ND	175	87.6	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				ANALYSIS REQUEST			
Company Name:	Cocco Phillips	P.O. #:					
Project Manager:	Christina Wall	Company:	Tetra Tech				
Address:	Christian Hall @ tetratech.com	Attn:	Christina Wall				
City:		State:	NM				
Phone #:		Fax #:					
Project #:	213C-MD-03885	Project Owner:					
Project Location:	Eddy County, NM	City:					
Sample Name:	Tape	State:					
FOR LAB USE ONLY		Phone #:					
Lab I.D.	H230660	Fax #:					
Sample I.D.		(G)RAB OR (C)OMP.					
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL	X				
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL	X				
		OTHER :					
		(DATE)	8-10				
		TIME	1300				
	FS - 90 (6")		X	Chlorides			
	FS - 69 (6")		X	BTEX			
	FS - 65 (6")		X	TPH			
	FS - 49 (6")						
	FS - 94 (6")						
	FS - 61 (6")						

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Relinquished By:	Date: 8-13-23	Received By:	Date: 8-14-23
Relinquished By:	Time: 1448	Received By:	Time: 1530
REMARKS:	24-Hour TAT		

Delivered By: (Circle One) Sampler - UPS Bus - Other:	Observed Temp. °C 3.2	Corrected Temp. °C 2.6	Sample Condition <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush <input checked="" type="checkbox"/>	Bacteria (only) <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample Condition Observed Temp. °C Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #: _____
All Results are emailed. Please provide Email address: _____



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

February 16, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/23 17:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 22 (3') (H230722-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.17	109	2.00	11.1	
Toluene*	<0.050	0.050	02/15/2023	ND	2.23	112	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.19	110	2.00	10.6	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.76	113	6.00	9.78	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	200	99.8	200	0.450	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	187	93.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 23 (3') (H230722-02)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.17	109	2.00	11.1	
Toluene*	<0.050	0.050	02/15/2023	ND	2.23	112	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.19	110	2.00	10.6	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.76	113	6.00	9.78	
Total BTX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	200	99.8	200	0.450	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	187	93.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 24 (3') (H230722-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	2.17	109	2.00	11.1	
Toluene*	<0.050	0.050	02/16/2023	ND	2.23	112	2.00	11.2	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.19	110	2.00	10.6	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.76	113	6.00	9.78	
Total BTX	<0.300	0.300	02/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	200	99.8	200	0.450	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	187	93.4	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 25 (3') (H230722-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.15	108	2.00	2.39	
Toluene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.23	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.07	104	2.00	2.13	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.24	104	6.00	1.22	
Total BTEx	<0.300	0.300	02/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/16/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 26 (3') (H230722-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.24	104	6.00	1.22		
Total BTEX	<0.300	0.300	02/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 27 (3') (H230722-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/16/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 28 (3') (H230722-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39	
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22	
Total BTEX	<0.300	0.300	02/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/16/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 169 (4.5') (H230722-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	0.461	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEX	0.461	0.300	02/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	45.1	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	1260	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	190	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 168 (4.5') (H230722-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	16.6	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	13.7	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 170 (4.5') (H230722-10)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39	
Toluene*	0.078	0.050	02/16/2023	ND	2.12	106	2.00	2.23	GC-NC1
Ethylbenzene*	0.198	0.050	02/16/2023	ND	2.07	104	2.00	2.13	
Total Xylenes*	3.88	0.150	02/16/2023	ND	6.24	104	6.00	1.22	
Total BTEX	4.15	0.300	02/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 200 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/16/2023	ND	432	108	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	222	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	3230	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	478	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 171 (4.5') (H230722-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	331	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	88.8	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 172 (4.5') (H230722-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	460	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	86.3	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 173 (4.5') (H230722-13)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39	
Toluene*	0.066	0.050	02/16/2023	ND	2.12	106	2.00	2.23	GC-NC1
Ethylbenzene*	0.186	0.050	02/16/2023	ND	2.07	104	2.00	2.13	
Total Xylenes*	3.49	0.150	02/16/2023	ND	6.24	104	6.00	1.22	
Total BTEX	3.74	0.300	02/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 197 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/16/2023	ND	432	108	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	265	10.0	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	3870	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	582	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 147 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 174 (4.5') (H230722-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	343	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	103	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 77 (0.5') (H230722-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	187	93.6	200	0.333	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	200	100	200	0.00400	
EXT DRO >C28-C36	10.2	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 84 (0.5') (H230722-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 83 (0.5') (H230722-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39	
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22	
Total BTEX	<0.300	0.300	02/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	28.7	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 105 (0.5') (H230722-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	12.9	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 112 (0.5') (H230722-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	10.6	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 114 (0.5') (H230722-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 10 (0.5') (H230722-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 11 (0.5') (H230722-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/16/2023	ND	432	108	400	7.14	

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 38 (0.5') (H230722-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.15	108	2.00	2.39		
Toluene*	<0.050	0.050	02/16/2023	ND	2.12	106	2.00	2.23		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.07	104	2.00	2.13		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.24	104	6.00	1.22		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 39 (0.5') (H230722-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.22	111	2.00	1.65		
Toluene*	<0.050	0.050	02/16/2023	ND	2.20	110	2.00	2.41		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.15	107	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.51	108	6.00	1.97		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 45 (0.5') (H230722-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.22	111	2.00	1.65		
Toluene*	<0.050	0.050	02/16/2023	ND	2.20	110	2.00	2.41		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.15	107	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.51	108	6.00	1.97		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/16/2023	ND	432	108	400	7.14	

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 46 (0.5') (H230722-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.22	111	2.00	1.65		
Toluene*	<0.050	0.050	02/16/2023	ND	2.20	110	2.00	2.41		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.15	107	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.51	108	6.00	1.97		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 47 (0.5') (H230722-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.22	111	2.00	1.65		
Toluene*	<0.050	0.050	02/16/2023	ND	2.20	110	2.00	2.41		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.15	107	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.51	108	6.00	1.97		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/16/2023	ND	432	108	400	7.14	

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 132 (0.5') (H230722-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.22	111	2.00	1.65		
Toluene*	<0.050	0.050	02/16/2023	ND	2.20	110	2.00	2.41		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.15	107	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.51	108	6.00	1.97		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	02/16/2023	ND	432	108	400	7.14		

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	02/16/2023	ND	207	104	200	2.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	0.233	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Company Name: Project Manager: Address: City: State: Zip: Phone #: Fax #: Project #: Project Name: Project Location: Sampler Name: FOR LAB USE ONLY				P. O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				BILL TO				ANALYSIS REQUEST							
Lab I.D. Sample I.D.				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				MATRIX PRESERV SAMPLING											
H230-722 20 FS-114 (0.5) 21 FS-10 (0.5) 22 FS-11 (0.5) 23 FS-38 (0.5) 24 FS-34 (0.5) 25 FS-45 (0.5) 26 FS-46 (0.5) 27 FS-47 (0.5) 28 FS-132 (0.5)				2083 DATE 2/15 TIME 1400 1415 1420 1430 1445 1450 1455 1400 1410 1425				BTEX TPH Chlorides											
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C Corrected Temp. °C				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: (Initials) Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C				Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C			



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

February 17, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/16/23 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 137 (0.5') (H230747-01)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66	
Total BTEX	<0.300	0.300	02/17/2023	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/17/2023	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 49.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 138 (0.5') (H230747-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEx	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 53.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 175 (2') (H230747-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 180 (5') (H230747-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66	
Total BTEX	<0.300	0.300	02/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 64.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 181 (5') (H230747-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66	
Total BTEx	<0.300	0.300	02/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 182 (5') (H230747-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 65.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 183 (2') (H230747-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 184 (2') (H230747-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 66.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 185 (2') (H230747-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 186 (2') (H230747-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 60.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 187 (5') (H230747-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 188 (5') (H230747-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 189 (5') (H230747-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	182	90.8	200	6.26	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	184	91.8	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 53.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.4 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 176 (2') (H230747-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 177 (2') (H230747-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEx	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 54.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 178 (2') (H230747-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	2.83		
Toluene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	2.78		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	2.63		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.07	101	6.00	1.66		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	22.7	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 179 (5') (H230747-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	176	88.0	200	0.750		
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND						

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: W SW - 1 (H230747-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: S SW - 1 (H230747-19)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62	
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859	
Total BTEx	<0.300	0.300	02/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: S SW - 2 (H230747-20)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62	
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859	
Total BTEX	<0.300	0.300	02/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	02/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 91 (0.5') (H230747-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEx	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	02/17/2023	ND	432	108	400	3.77	QM-07	

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	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	260	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	53.5	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 92 (0.5') (H230747-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	02/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	53.3	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 58.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 95 (0.5') (H230747-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEx	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	23.4	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 96 (0.5') (H230747-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	02/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	147	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	24.7	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 48.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 122 (0.5') (H230747-25)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	02/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	161	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	32.9	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 123 (0.5') (H230747-26)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.62		
Toluene*	<0.050	0.050	02/17/2023	ND	2.11	105	2.00	1.43		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	0.239		
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.27	104	6.00	0.859		
Total BTEX	<0.300	0.300	02/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	02/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	188	94.0	200	2.62	
DRO >C10-C28*	212	10.0	02/17/2023	ND	176	88.0	200	0.750	
EXT DRO >C28-C36	40.1	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

page 1 of 3

Company Name: <u>Conoco Phillips</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Christen Lull</u>		Company: <u>Techatech</u>					
Address: <u>Christen, 1111 etatech.com</u>		Attn: <u>Christen Lull</u>					
City: <u>State: Zip:</u>		Address:					
Phone #: <u>Fax #:</u>		City:					
Project #: <u>212C-MD-09885</u> Project Owner:		State: Zip:					
Project Name: <u>Brookland CTB</u>		Phone #:					
Project Location: <u>Edley, NM</u>		Fax #:					
Sampler Name: <u>AK</u>							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
1235747	FS-137 (0.5')	5	1	X					X		2/16	0800	X	X	X		
2	FS-138 (0.5')											0810	X	X	X		
3	FS-175 (2')											0815	X	X	X		
4	FS-180 (5')											0820	X	X	X		
5	FS-181 (5')											0830	X	X	X		
6	FS-182 (5')											0834	X	X	X		
7	FS-183 (2')											0845	X	X	X		
8	FS-184 (2')											0850	X	X	X		
9	FS-185 (2')											0855	X	X	X		
10	FS-186 (2')											0900	X	X	X		

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Relinquished By: <u>John Doe</u>	Date: <u>2/16/23</u>	Received By: <u>Christen Lull</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Time: <u>7:20 pm</u>			All Results are emailed. Please provide Email address:
Relinquished By: <u>John Doe</u>	Date: <u>2/16/23</u>	Received By: <u>Christen Lull</u>	REMARKS:
Time: <u>7:20 pm</u>			

Delivered By: (Circle One)	Observed Temp. °C <u>3.9</u>	Sample Condition	CHECKED BY: (Initials) <u>JD</u>	Turnaround Time: <u>Standard</u>	Bacteria (only) <input type="checkbox"/> <u>Standard</u>	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>3.3</u>	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Thermometer ID #113 <u>24405</u>	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Observed Temp. °C
FORM 006 R-3-3-0710-22				Correction Factor -0.5°C	Corrected Temp. °C	

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



Page 2 of 3

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 23

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Christian Lull</u> Address: <u>Christian.Lull@tetatech.com</u> City: _____ Phone #: _____ State: _____ Zip: _____ Project #: <u>81AC-MD-02885</u> Project Name: <u>1500 Oakley CTB</u> Project Location: <u>Eddy Co. NM</u> Sampler Name: <u>AK</u>		P.O. #: _____ Company: <u>Tetatech</u> Attn: <u>Christian Lull</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H230747</u> Sample I.D. _____		FOR LAB USE ONLY	
Matrix: (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____		Preserv: ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
Sampling: DATE: <u>9/16</u> TIME: <u>12:15</u> <u>12:30</u> <u>12:45</u> <u>1:00</u> <u>1:15</u> <u>1:30</u>		Analysis: <u>TPH</u> <u>BTEX</u> <u>Chloride</u>	

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Relinquished By: _____ Date: <u>9/16/2003</u> Time: <u>4:20 pm</u> Date: _____ Time: _____	Received By: _____ Date: _____ Time: _____ Date: _____ Time: _____
Observed Temp. °C <u>3.9</u> Corrected Temp. °C <u>3.3</u>	
Turnaround Time: _____ Thermometer ID #113 _____ Correction Factor -0.6°C _____	

REMARKS:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:** _____

All Results are emailed. Please provide Email address: _____

Standard ☐ **Bacteria (only)** ☐ **Sample Condition** ☐

Rush ☒ **Cool/Intact** ☐ **Observed Temp. °C** _____

Corrected Temp. °C _____



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

February 20, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/17/23 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: SSW - 3 (H230761-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972	
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46	
Total BTX	<0.300	0.300	02/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	02/20/2023	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	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/20/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW - 4 (H230761-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	02/20/2023	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	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: SSW - 5 (H230761-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	02/20/2023	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	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 2 (H230761-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	18.9	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 3 (H230761-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/20/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW - 20 (H230761-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	38.6	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	19.7	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 19 (H230761-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 18 (H230761-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 11 (H230761-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 6 (H230761-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	20.2	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 5 (H230761-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	112	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	23.3	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 4 (H230761-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.06	103	2.00	0.972		
Toluene*	<0.050	0.050	02/18/2023	ND	2.05	102	2.00	4.13		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.04	102	2.00	3.08		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.16	103	6.00	1.46		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	200	99.9	200	0.0891	
DRO >C10-C28*	<10.0	10.0	02/18/2023	ND	188	93.8	200	0.210	
EXT DRO >C28-C36	<10.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

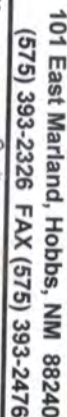
Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Conoco Phillips		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian Ull		P.O. #:			
Address: christian.ull@tetratech.com		Company: TetraTech			
City: State: Zip:		Attn: Christian Ull			
Phone #: Fax #:		Address:			
Project #: 212c-md-02855		City:			
Project Name: Boo Radley AIC CTB		State: Zip:			
Project Location: Edly Co, NM		Phone #:			
Sampler Name: AS		Fax #:			
FOR LAB USE ONLY					
Lab I.D. H230 761		Sample I.D.			
1 SSW-3 2 SSW-4 3 SSW-5 4 WSW-2 5 WSW-3 6 NSW-20 7 NSW-19 8 NSW-18 9 NSW-11 10 NSW-6		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		MATRIX PRESERV SAMPLING	
900 945 1000 1015 1030 1045 1100 1115 1130		3003 2/17 900 945 1000 1015 1030 1045 1100 1115 1130		Chlorides TPH BTEX	
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Relinquished By: Edward		Received By: Matthew		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:	
Date: 8/17/03		Time: 1430		All Results are emailed. Please provide Email address:	
Relinquished By: Edward		Received By: Matthew		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 4.1 Corrected Temp. °C 3.5		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked BY: AS (Initials)	
Turnaround Time: Standard		Thermometer ID #113		Bacteria (only) <input checked="" type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C 24.125	



ANALYSIS REQUEST

Page 16 of 16



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

February 22, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/21/23 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 2 (1') (H230820-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53	
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690	
Total BTX	<0.300	0.300	02/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	02/22/2023	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	02/21/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/21/2023
 Reported: 02/22/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 3 (1') (H230820-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	02/22/2023	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	02/21/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2023
 Reported: 02/22/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 4 (1') (H230820-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	02/22/2023	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	02/21/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 5 (1') (H230820-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 6 (1') (H230820-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 7 (1') (H230820-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53	
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690	
Total BTEX	<0.300	0.300	02/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 8 (1') (H230820-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 12 (1') (H230820-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 13 (1') (H230820-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 14 (1') (H230820-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 15 (1') (H230820-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 16 (1') (H230820-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53	
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690	
Total BTEX	<0.300	0.300	02/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/22/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 17 (1') (H230820-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.12	106	2.00	1.53		
Toluene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.00	100	2.00	1.23		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.09	102	6.00	0.690		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 18 (1') (H230820-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 19 (1') (H230820-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 20 (1') (H230820-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 21 (1') (H230820-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 29 (1') (H230820-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 30 (1') (H230820-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 31 (1') (H230820-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 51 (1') (H230820-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 52 (1') (H230820-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 53 (1') (H230820-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	02/22/2023	ND	400	100	400	0.00	QM-07	

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	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 54 (1') (H230820-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 55 (1') (H230820-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 56 (1') (H230820-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 57 (1') (H230820-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2023
 Reported: 02/22/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 58 (1') (H230820-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/21/2023
 Reported: 02/22/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 78 (1') (H230820-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2023
 Reported: 02/22/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 79 (1') (H230820-31)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93	
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98	
Total BTEx	<0.300	0.300	02/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/22/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 80 (1') (H230820-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/22/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 81 (1') (H230820-33)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/22/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 82 (1') (H230820-34)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	8.93		
Toluene*	<0.050	0.050	02/22/2023	ND	2.05	102	2.00	7.04		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.02	101	2.00	7.87		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.05	101	6.00	7.98		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 64.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 106 (1') (H230820-35)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 107 (1') (H230820-36)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8	
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24	
Total BTX	<0.300	0.300	02/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 108 (1') (H230820-37)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 109 (1') (H230820-38)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	188	94.1	200	1.21	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	187	93.6	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 110 (1') (H230820-39)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 186 (5') (H230820-40)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	204	102	200	0.741	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	191	95.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 169 (6') (H230820-42)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 170 (6') (H230820-43)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/22/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 171 (6') (H230820-44)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 172 (6') (H230820-45)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEx	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	23.1	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 173 (6') (H230820-46)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8	
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24	
Total BTEX	<0.300	0.300	02/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	410	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	71.9	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/21/2023	Sampling Date:	02/21/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 174 (6') (H230820-47)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8		
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24		
Total BTEX	<0.300	0.300	02/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2023	ND	191	95.3	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/22/2023	ND	189	94.3	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	02/22/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 5

Company Name:

COP

Project Manager:

Christina Ull

Address:

Christina.Ull@tetra-tech.com

City:

State: Zip:

Phone #:

Fax #:

Project #:

212C-MD-00885 Project Owner:

Project Name:

Box Rodley 21C CTB

Project Location:

Edley County, NM

Sampler Name:

ST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Tetra Tech

Attn: Christina Ull

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEX

TPH

Chlorides

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Relinquished By:

Date: 2-21-23

Received By:

Relinquished By:

Date: 2-21-23

Received By:

Delivered By: (Circle One)

Observed Temp. °C

1.3

Sample Condition

Cool Intact

CHECKED BY: (Initials)

Turnaround Time:

Thermometer ID #113

Correction Factor -0.8°C

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

FORM 003 7-5-3 07/10/22

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 5

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Company Name: <u>COP</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company: <u>7B</u>					
Address:		Attn: <u>Christina Leal</u>					
City:		Address:					
Phone #:		City:					
Project #:		State:					
Project Name: <u>Boo Reddy 21C CTB</u>		Zip:					
Project Location:		Phone #:					
Sample Name: <u>ST</u>		Fax #:					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<u>4235820</u>	<u>FS-14 (1')</u>	<u>X</u>	<u>1</u>			<u>X</u>					<u>2-20</u>	<u>1540</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>FS-15 (1')</u>											<u>1400</u>			
	<u>FS-16 (1')</u>											<u>1420</u>			
	<u>FS-17 (1')</u>											<u>1440</u>			
	<u>FS-18 (1')</u>											<u>1500</u>			
	<u>FS-19 (1')</u>											<u>1040</u>			
	<u>FS-20 (1')</u>											<u>1050</u>			
	<u>FS-21 (1')</u>											<u>1100</u>			
	<u>FS-29 (1')</u>											<u>1110</u>			
	<u>FS-30 (1')</u>											<u>1120</u>			

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Relinquished By: <u>[Signature]</u>	Date: <u>2-21-23</u>	Received By: <u>[Signature]</u>	Date: <u>2-21-23</u>
Time: <u>1625</u>	Time: <u>1625</u>	Time: <u>1625</u>	Time: <u>1625</u>
Relinquished By: <u>[Signature]</u>	Date: <u>2-21-23</u>	Received By: <u>[Signature]</u>	Date: <u>2-21-23</u>
Time: <u>1625</u>	Time: <u>1625</u>	Time: <u>1625</u>	Time: <u>1625</u>

Delivered By: (Circle One) <u>Sampler - UPS - Bus - Other:</u>	Observed Temp. °C <u>1.3</u>	Corrected Temp. °C <u>0.7</u>	Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u>	Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
Thermometer ID #113	Correction Factor 0.8°C	Corrected Temp. °C	Corrected Temp. °C	REMARKS: <u>24-Hour Rush</u>	Corrected Temp. °C	Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 5

Company Name: COR		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company: TB					
Address:		Attn: Christina Lillard					
City:		Address:					
State:		City:					
Zip:		State:					
Phone #:		Phone #:					
Fax #:		Zip:					
Project #:							
Project Name: Rao Roddy 21C CTB							
Project Location:							
Sample Name: JT		Fax #:					
FOR LAB USE ONLY		PRESERV.		SAMPLING			
Lab I.D.		MATRIX					
Sample I.D.		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL					
		OTHER:					
		DATE		TIME			
4230820		9-21		1150		BTEX	
31		X		X		X	
FS-79 (1')		X		1145		TDH	
32		X		1150		Chlorides	
FS-80 (1')		X		1200			
33		X		1310			
FS-81 (1')		X		1320			
34		X		1340			
FS-82 (1')		X		1350			
35		X		1400			
FS-106 (1')		X		1420			
36		X		1430			
FS-107 (1')		X		1440			
37		X		1450			
FS-108 (1')		X		1500			
38		X		1510			
FS-109 (1')		X		1520			
39		X		1530			
FS-110 (1')		X		1540			
40		X		1550			
FS-186 (5')		X		1600			
		X		1610			
		X		1620			
		X		1630			
		X		1640			
		X		1650			
		X		1700			
		X		1710			
		X		1720			
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		X		2050			
		X		2100			
		X		2110			
		X		2120			
		X		2130			
		X		2140			
		X		2150			
		X		2200			
		X		2210			
		X		2220			
		X		2230			
		X		2240			
		X		2250			
		X		2300			
		X		2310			
		X		2320			
		X		2330			
		X		2340			
		X		2350			
		X		2400			
		X		2410			
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		X		2440			
		X		2450			
		X		2500			
		X		2510			
		X		2520			
		X		2530			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: CCP		P.O. #: TE		ANALYSIS REQUEST	
Project Manager:		Company: TE			
Address:		Attn: Christopher Wall			
City:	State:	Zip:	Address:		
Phone #:	Fax #:	City:	State:	Zip:	
Project #:		Project Name: Boo Radway a/c C78			
Project Location:		Phone #:			
Sampler Name: JT		Fax #:			
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.			
<div style="display: flex; justify-content: space-between;"> <div> 41 FS-168 (6') 42 FS-169 (6') 43 FS-170 (6') 44 FS-171 (6') 45 FS-172 (6') 46 FS-173 (6') 47 FS-174 (6') </div> <div> 41 6 42 1 43 1 44 1 45 1 46 1 47 1 </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : </div> <div> 2-21 0900 0910 0930 0940 0950 1000 </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> BTEX TPH Chl+des </div> <div> X X X </div> </div>	

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Relinquished By: [Signature]		Date: 2-21-03		Received By: [Signature]		Date: 2-21-03	
Relinquished By: [Signature]		Date: 2-21-03		Received By: [Signature]		Date: 2-21-03	
Delivered By: (Circle One) UPS - Bus - Other:		Observed Temp. °C 1.3		Corrected Temp. °C 0.7		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Turnaround Time: 24-Hour Rush		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) <input type="checkbox"/>		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Thermometer ID #113		Correction Factor -0.5°C		All Results are emailed. Please provide Email address:		Add'l Phone #:	
REMARKS: 24-Hour Rush							



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

February 27, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/24/23 9:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 1 (4.5') (H230866-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 3 (2') (H230866-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 6 (2') (H230866-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 7 (2') (H230866-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 8 (3') (H230866-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 13 (2') (H230866-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 16 (2') (H230866-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 17 (2') (H230866-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 18 (2') (H230866-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 173 (6.5') (H230866-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 83 (1') (H230866-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 75 (1') (H230866-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 103 (1') (H230866-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379	
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527	
Total BTX	<0.300	0.300	02/24/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 111 (1') (H230866-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 138 (1') (H230866-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEx	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 139 (1') (H230866-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	195	97.7	200	6.02	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	169	84.6	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

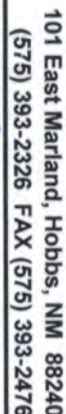
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 20



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: COP Project Manager: Christian Lull Address: Christian. lull@tetra-tech.com City: State: Zip: Phone #: Fax #: Project #: 212 C-MD - 02883 Project Name: Bob Rodley 212 CTB Project Location: Eddy County, New Mexico Sample Name: EMF V				P.O. #: Company: Tetra Tech Attn: Christian Lull Address: City: State: Zip: Phone #: Fax #:				BILL TO				ANALYSIS REQUEST																																															
FOR LAB USE ONLY												Lab I.D.												Sample I.D.																																			
4230864 11 FS-83 (1') 12 FS-75 (1') 13 FS-103 (1') 14 FS-111 (1') 15 FS-138 (1') 16 FS-139 (1')												(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :												MATRIX PRESERV SAMPLING												DATE TIME												BTEX TPH Chlorides											
Relinquished By:												Date: 8-24-23 Time: 0920 Received By:												Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:												REMARKS: 24-hr Rush																							
Delivered By: (Circle One) Corrected Temp. °C 0.3 Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact Checked By:												Observed Temp. °C 0.9 Corrected Temp. °C 0.3 Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact Checked By:												Turnaround Time:												Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C Corrected Temp. °C																							



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

February 27, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/24/23 16:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/24/2023	Sampling Date:	02/24/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 126 (2') (H230879-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475	
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21	
Total BTEX	<0.300	0.300	02/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 145 (2') (H230879-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475		
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21		
Total BTEX	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 146 (2') (H230879-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475		
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21		
Total BTEx	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 149 (2') (H230879-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475	
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21	
Total BTEx	<0.300	0.300	02/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 150 (2') (H230879-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475		
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21		
Total BTEX	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 151 (2') (H230879-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475	
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21	
Total BTEX	<0.300	0.300	02/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 160 (2') (H230879-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475		
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21		
Total BTEx	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 161 (2') (H230879-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	0.475		
Toluene*	<0.050	0.050	02/25/2023	ND	2.03	101	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	1.94		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	6.05	101	6.00	2.21		
Total BTEX	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 162 (2') (H230879-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2023	ND	2.04	102	2.00	6.16	
Toluene*	<0.050	0.050	02/25/2023	ND	2.19	110	2.00	4.00	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.34	117	2.00	4.02	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	7.08	118	6.00	3.96	
Total BTEX	<0.300	0.300	02/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 45 (1.5') (H230879-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.04	102	2.00	6.16		
Toluene*	<0.050	0.050	02/25/2023	ND	2.19	110	2.00	4.00		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.34	117	2.00	4.02		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	7.08	118	6.00	3.96		
Total BTEx	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 46 (1.5') (H230879-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2023	ND	2.04	102	2.00	6.16		
Toluene*	<0.050	0.050	02/25/2023	ND	2.19	110	2.00	4.00		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.34	117	2.00	4.02		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	7.08	118	6.00	3.96		
Total BTEx	<0.300	0.300	02/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 64 (1.5') (H230879-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2023	ND	2.04	102	2.00	6.16	
Toluene*	<0.050	0.050	02/25/2023	ND	2.19	110	2.00	4.00	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.34	117	2.00	4.02	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	7.08	118	6.00	3.96	
Total BTEx	<0.300	0.300	02/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 02/24/2023
 Reported: 02/27/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 66 (1.5') (H230879-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2023	ND	2.04	102	2.00	6.16	
Toluene*	<0.050	0.050	02/25/2023	ND	2.19	110	2.00	4.00	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	2.34	117	2.00	4.02	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	7.08	118	6.00	3.96	
Total BTX	<0.300	0.300	02/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2023	ND	194	97.2	200	0.965	
DRO >C10-C28*	<10.0	10.0	02/25/2023	ND	185	92.5	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	02/25/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Company Name: COP Project Manager: Christian Lull Address: christianlull@fetratex.com City: State: Zip: Phone #: Fax #: Project #: 212C-MD-02885 Project Owner: Project Name: B300 Radley 21c CTB Project Location: Eddy County, New Mexico Sampler Name: Ivan Ramos				P.O. #: Company: Tetratex Attn: Christian Lull Address: City: State: Zip: Phone #: Fax #:			
BILL TO				ANALYSIS REQUEST			
Lab I.D. HA30879		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING	
1 2 3 4 5 6 7 8 9 10		ES-126 (2') ES-145 (2') ES-146 (2') ES-149 (2') ES-150 (2') ES-151 (2') ES-160 (2') ES-161 (2') ES-162 (2') ES-165 (2')		1 1 1 1 1 1 1 1 1 1		2/24/23 10:30 10:40 10:50 11:00 11:10 11:20 11:30 11:40 11:50 12:00	
V V V V V V V V V V		V V V V V V V V V V		V V V V V V V V V V		BTEX TPH Chlorides	
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Relinquished By: <i>Ivan Ramos</i> Date: 2-24-23 Time: 12:30 Received By: <i>[Signature]</i> Date: 2-24-23 Time: 12:30				REMARKS: 24-Hour Rush			
Delivered By: (Circle One) Sample UPS - Bus - Other:				Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Observed Temp. °C Corrected Temp. °C			



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

February 28, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/27/23 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 167 (1.5') (H230913-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870	
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93	
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66	
Total BTEX	<0.300	0.300	02/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 166 (1.5') (H230913-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 165 (1.5') (H230913-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 164 (1.5') (H230913-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 155 (1.5') (H230913-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	12.7	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 156 (1.5') (H230913-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870	
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93	
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66	
Total BTX	<0.300	0.300	02/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 157 (1.5') (H230913-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 154 (1.5') (H230913-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 153 (1.5') (H230913-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 140 (1.5') (H230913-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	52.2	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 141 (1.5') (H230913-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	45.2	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 142 (1.5') (H230913-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	47.2	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2023
 Reported: 02/28/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 136 (1.5') (H230913-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	186	93.2	200	0.908	
DRO >C10-C28*	33.2	10.0	02/28/2023	ND	200	100	200	0.195	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 135 (1.5') (H230913-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	34.2	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 134 (1.5') (H230913-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	35.2	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 133 (1.5') (H230913-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870	
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93	
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66	
Total BTEx	<0.300	0.300	02/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	36.8	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 68 (2') (H230913-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 61 (2') (H230913-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 62 (2') (H230913-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 63 (2') (H230913-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.08	104	2.00	0.870		
Toluene*	<0.050	0.050	02/27/2023	ND	2.00	100	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	1.95	97.5	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	5.94	99.0	6.00	1.66		
Total BTEX	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 122 (2') (H230913-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	63.4	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 123 (2') (H230913-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	42.3	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 96 (2') (H230913-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 89 (2') (H230913-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 91 (2') (H230913-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 92 (2') (H230913-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 71 (2') (H230913-27)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23	
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28	
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56	
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44	
Total BTX	<0.300	0.300	02/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 70 (2') (H230913-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 50 (2') (H230913-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 49 (2') (H230913-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 48 (2') (H230913-31)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 47 (2') (H230913-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	40.0	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 59 (2') (H230913-33)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	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	02/28/2023	ND	236	118	200	7.42	
DRO >C10-C28*	56.4	10.0	02/28/2023	ND	227	113	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 60 (2') (H230913-34)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/27/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/27/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/27/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/28/2023	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	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	21.6	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 32 (2') (H230913-35)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2023	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	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	28.1	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 29 (2') (H230913-36)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2023	ND	2.07	104	2.00	5.23	
Toluene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	4.28	
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.03	102	2.00	3.56	
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.18	103	6.00	4.44	
Total BTX	<0.300	0.300	02/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/28/2023	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	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 52 (2') (H230913-37)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	02/28/2023	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	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 20 (2') (H230913-38)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/28/2023	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	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 53 (2') (H230913-39)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.18	103	6.00	4.44		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 51 (2') (H230913-40)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.07	104	2.00	5.23		
Toluene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	4.28		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.03	102	2.00	3.56		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.18	103	6.00	4.44		
Total BTX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 19 (2') (H230913-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 30 (2') (H230913-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 2 (2') (H230913-43)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	02/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	207	103	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/24/2023
Reported:	02/28/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 21 (2') (H230913-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	207	103	200	2.95		
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	221	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND						

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 5

BILL TO

ANALYSIS REQUEST

Company Name:	Cavaco Phillips	P.O. #:	
Project Manager:	Christina Lull	Company:	Tetra Tech
Address:	christina.lull@tetratech.com	Attn:	Christina Lull
City:		State:	
Phone #:		Address:	
Fax #:		City:	
Project #:	2102-ND-08885	Project Owner:	
Project Name:	800 Rodley ALE CTB	State:	
Project Location:	Eddy County, NM	Phone #:	
Sampler Name:	Joe Tyler	Fax #:	

FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :
H230913	FS-167 (1.5')							X			
1	FS-166 (1.5')										
2	FS-165 (1.5')										
3	FS-164 (1.5')										
4	FS-155 (1.5')										
5	FS-156 (1.5')										
6	FS-157 (1.5')										
7	FS-154 (1.5')										
8	FS-153 (1.5')										
9	FS-140 (1.5')										
10											

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Relinquished By:	Date: 8-27-23	Received By:	Date: 8-27-23
Relinquished By:	Time: 10:25	Received By:	Time: 10:25
Delivered By: (Circle One)	Observed Temp. °C: 4.5	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 3.9	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time:	Thermometer ID #113	Standard <input checked="" type="checkbox"/> <input type="checkbox"/>	Bacteria (only) Sample Condition
	Correction Factor -0.5°C	RUSH <input checked="" type="checkbox"/>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 5

[illegible]



Page 3 of 5

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 5

Company Name: COP		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: CL		Company: TE					
Address:		Attn: CL					
City:		Address:					
State:		City:					
Zip:		State:					
Phone #:		Fax #:					
Project #:		Project Owner:					
Project Name: Bob Rodley LLC CTR		City:					
Project Location:		State:					
Phone #:		Zip:					
Sample Name: ST		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
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					
H230913		FS-48 (2')		X		1355	
31		FS-47 (2')		X		1300	
32		FS-59 (2')		X		1310	
33		FS-60 (2')		X		1330	
34		FS-30 (2')		X		1330	
35		FS-29 (2')		X			
36		FS-20 (2')		X			
37		FS-57 (2')		X			
38		FS-20 (2')		X			
39		FS-53 (2')		X			
40		FS-51 (2')		X			
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Relinquished By: [Signature]		Date: 8-27-23		Received By: [Signature]		Date: 8-27-23	
Time: 1635		Time: 1635		Time: 1635		Time: 1635	
Relinquished By: [Signature]		Date:		Received By: [Signature]		Date:	
Time:		Time:		Time:		Time:	
Delivered By: (Circle One) UPS - Bus - Other:		Observed Temp. °C 4.5		Corrected Temp. °C 39		Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>		Thermometer ID #113 <input type="checkbox"/> Correction Factor -0.5°C <input type="checkbox"/>	
REMARKS: 24 Hour							
All Results are emailed. Please provide Email address:							



Page 5 of 5

Page 51 of 51



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

March 01, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/28/23 15:17.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2023	Sampling Date:	02/28/2023
Reported:	03/01/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 112 (1.5') (H230930-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.166	
Toluene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	1.26	
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.918	
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.25	104	6.00	0.415	
Total BTEX	<0.300	0.300	02/28/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 113 (1.5') (H230930-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.166		
Toluene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	1.26		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.918		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.25	104	6.00	0.415		
Total BTEX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/01/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 114 (1.5') (H230930-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.166		
Toluene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	1.26		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.918		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.25	104	6.00	0.415		
Total BTEX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 115 (1.5') (H230930-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.166		
Toluene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	1.26		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.918		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.25	104	6.00	0.415		
Total BTEX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/01/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 116 (2') (H230930-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.166		
Toluene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	1.26		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.918		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.25	104	6.00	0.415		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 104 (1.5') (H230930-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.166		
Toluene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	1.26		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.06	103	2.00	0.918		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.25	104	6.00	0.415		
Total BTEX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 103 (1.5') (H230930-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552		
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 102 (1.5') (H230930-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552		
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 101 (1.5') (H230930-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEx	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 100 (2') (H230930-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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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: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 84 (1.5') (H230930-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 85 (1.5') (H230930-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 86 (1.5') (H230930-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEX	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/01/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 87 (1.5') (H230930-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	03/01/2023	ND	400	100	400	7.69	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 88 (2') (H230930-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	03/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 76 (1.5') (H230930-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 74 (1.5') (H230930-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEx	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 73 (1.5') (H230930-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEx	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 72 (1.5') (H230930-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 132 (1.5') (H230930-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTEx	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	03/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	219	109	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	211	105	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 131 (2') (H230930-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552		
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 144 (2') (H230930-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552		
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 143 (1.5') (H230930-23)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 152 (1.5') (H230930-24)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 158 (1.5') (H230930-25)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552	
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 159 (1.5') (H230930-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	0.552		
Toluene*	<0.050	0.050	03/01/2023	ND	2.02	101	2.00	0.0684		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.98	99.0	2.00	0.831		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.00	100	6.00	0.213		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 163 (1.5') (H230930-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 130 (2') (H230930-28)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48	
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 129 (2') (H230930-29)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48	
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 128 (2') (H230930-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 127 (2') (H230930-31)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 126 (2') (H230930-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 117 (2') (H230930-33)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 118 (2') (H230930-34)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/01/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 119 (2') (H230930-35)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48	
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52	
Total BTX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/01/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 120 (2') (H230930-36)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/01/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	12.8	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 121 (2') (H230930-37)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/01/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 99 (2') (H230930-38)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/01/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 98 (2') (H230930-39)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/01/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Analytical Results For:

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

Received: 02/28/2023
 Reported: 03/01/2023
 Project Name: BOO RADLEY 21C CTB
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 02/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 97 (2') (H230930-40)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.05	103	2.00	2.48		
Toluene*	<0.050	0.050	03/01/2023	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	2.08	104	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.29	105	6.00	3.52		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/01/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	212	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	223	112	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 4

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Christina Hall</u> Address: <u>Christina Hall @ hollywood.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>0102-MD-00885</u> Project Owner: _____ Project Name: <u>800 Redley Ave CTB</u> State: _____ Zip: _____ Project Location: <u>Eddy County, NM</u> Phone #: _____ Sampler Name: <u>Bob</u> Fax #: _____				BILL TO P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Hall</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST	
Lab I.D. <u>HQ30930</u>				Sample I.D.		FOR LAB USE ONLY	
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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.				Relinquished By: <u>Shelley</u> Date: <u>8-28-23</u> Received By: <u>Shelley</u> Date: <u>8-28-23</u>		Relinquished By: _____ Date: _____ Received By: _____ Date: _____	
Reinquinshed By: _____ Date: _____ Received By: _____ Date: _____				Reinquinshed By: _____ Date: _____ Received By: _____ Date: _____		Reinquinshed By: _____ Date: _____ Received By: _____ Date: _____	
Delivered By: (Circle One) <u>Observed Temp. °C</u> <u>4.4</u> <u>Corrected Temp. °C</u> <u>3.82</u> Sample Condition <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <u>Shelley</u> (initials)				Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____		Thermometer ID #113 Correction Factor -0.6°C	
REMARKS: <u>24 Hour Rush</u>				REMARKS:		REMARKS:	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____	
All Results are emailed. Please provide Email address:				All Results are emailed. Please provide Email address:		All Results are emailed. Please provide Email address:	
TPH <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>				TPH <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>		TPH <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>	
BTEX <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>				BTEX <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>		BTEX <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>	
Chlorides <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>				Chlorides <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>		Chlorides <u>FS-112 (1.5')</u> <u>FS-113 (1.5')</u> <u>FS-114 (1.5')</u> <u>FS-115 (1.5')</u> <u>FS-116 (2')</u> <u>FS-104 (1.5')</u> <u>FS-103 (1.5')</u> <u>FS-102 (1.5')</u> <u>FS-101 (1.5')</u> <u>FS-100 (2')</u>	



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

Company Name: <u>COP</u>		P.O. #:		BILL TO																																			
Project Manager: <u>CL</u>		Company: <u>TE</u>		ANALYSIS REQUEST																																			
Address:		Attn: <u>CL</u>																																					
City:		Address:																																					
State:		City:																																					
Zip:		State:																																					
Phone #:		Fax #:																																					
Project #:		Project Owner:																																					
Project Name: <u>Boo Radley 21C 27B</u>		City:																																					
Project Location:		State:																																					
Sample Name: <u>Coke</u>		Phone #:																																					
FOR LAB USE ONLY		Fax #:																																					
Lab I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																															
Sample I.D.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
11		FS-84 (1.5')		G		1		X														2-28				X		TPH											
12		FS-85 (1.5')																								X		BTEX											
13		FS-86 (1.5')																								X													
14		FS-87 (1.5')																																					
15		FS-88 (2')																																					
16		FS-76 (1.5')																																					
17		FS-74 (1.5')																																					
18		FS-93 (1.5')																																					
19		FS-78 (1.5')																																					
20		FS-132 (1.5')																																					
<p>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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																							
Relinquished By: <u>Hydrokurt</u>		Date: <u>2-28-23</u>		Received By: <u>Shed Kinsley</u>		Date: <u>2-28-23</u>		Time: <u>1517</u>		Received By: <u>Shed Kinsley</u>		Time: <u>1517</u>		REMARKS: <u>24 Hour</u>																									
Relinquished By:		Date:		Received By:		Date:		Time:		Received By:		Time:																											
Delivered By: (Circle One)		Observed Temp. °C: <u>44.2</u>		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: (Initials) <u>SK</u>		Turnaround Time: <u>Standard</u>		Bacteria (only) <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact																											
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>3.82</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #113		Correction Factor -0.6°C		Corrected Temp. °C: <u>3.82</u>																											

FORM-006 R 3-3-0710122

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



Page 3 of 4

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: <u>ACD</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																																	
Project Manager: <u>CL</u>				Company: <u>TK</u>																																													
Address:				Attn: <u>CL</u>																																													
City:		State:		Zip:																																													
Phone #:		Fax #:		Address:																																													
Project #:		Project Owner:		City:																																													
Project Name: <u>Boo Rodley the CTB</u>		State:		Zip:																																													
Project Location:		Phone #:																																															
Sample Name: <u>Gabe</u>		Fax #:																																															
FOR LAB USE ONLY																																																	
Lab I.D.		Sample I.D.																																															
11230930																																																	
ES-127 (2')		G		1		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		BTEX		Chlorides													
ES-126 (2')																																																	
ES-117 (2')																																																	
ES-118 (2')																																																	
ES-119 (2')																																																	
ES-120 (2')																																																	
ES-121 (2')																																																	
ES-99 (2')																																																	
ES-98 (2')																																																	
ES-97 (2')																																																	
40																																																	
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Relinquished By: <u>Shirley Huns</u>		Date: <u>8/8/23</u>		Received By: <u>Shirley Huns</u>		Date: <u>8/8/23</u>																																											
Relinquished By: <u>Shirley Huns</u>		Date: <u>8/8/23</u>		Received By: <u>Shirley Huns</u>		Date: <u>8/8/23</u>																																											
Delivered By: (Circle One)		Observed Temp. °C: <u>4.4</u>		Sample Condition		Cool Intact		CHECKED BY: <u>(initials)</u>		Turnaround Time:		Standard <u>Rush</u>		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C																															
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>3.8</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																											
FORM 006 R 3-3-07/10/22																																																	

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

March 02, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/01/23 15:08.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 2 (3') (H230962-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80	
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99	
Total BTX	<0.300	0.300	03/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 19 (3') (H230962-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 30 (3') (H230962-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 53 (3') (H230962-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 40 (2') (H230962-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 41 (2') (H230962-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80	
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99	
Total BTEx	<0.300	0.300	03/02/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	20.6	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 42 (2') (H230962-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 43 (2') (H230962-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 44 (2') (H230962-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 67 (2') (H230962-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 93 (2') (H230962-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 2 (H230962-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 4 (5') (H230962-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 5 (5') (H230962-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2023	ND	1.95	97.3	2.00	7.80		
Toluene*	<0.050	0.050	03/02/2023	ND	1.92	96.2	2.00	7.62		
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	1.92	96.1	2.00	7.43		
Total Xylenes*	<0.150	0.150	03/02/2023	ND	5.84	97.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	14.3	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 1 (H230962-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.00	99.9	2.00	5.12		
Toluene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	96.9	2.00	6.38		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.03	100	6.00	6.99		
Total BTEx	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/02/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 2 (H230962-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.00	99.9	2.00	5.12		
Toluene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	96.9	2.00	6.38		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.03	100	6.00	6.99		
Total BTEx	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 3 (H230962-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	2.00	99.9	2.00	5.12		
Toluene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	96.9	2.00	6.38		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	6.03	100	6.00	6.99		
Total BTEx	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/02/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	205	103	200	12.7	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	195	97.4	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

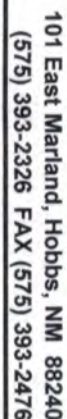


**101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

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Page 2 of 2

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



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

March 02, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 132 (4') (H230970-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66	
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1	
Total BTX	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 88 (4') (H230970-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66		
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 144 (4') (H230970-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66		
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1		
Total BTEX	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 115 (3') (H230970-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66		
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1		
Total BTEX	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 101 (3') (H230970-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66		
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1		
Total BTEx	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 72 (3') (H230970-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66		
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1		
Total BTEX	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 87 (3') (H230970-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66	
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1	
Total BTEX	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 103 (3') (H230970-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66	
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1	
Total BTEX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2023	Sampling Date:	03/01/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885, TASK 210	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 85 (3') (H230970-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.97	98.5	2.00	9.66		
Toluene*	<0.050	0.050	03/01/2023	ND	1.89	94.6	2.00	8.80		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.94	97.2	2.00	10.3		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.9	6.00	10.1		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	208	104	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	220	110	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

March 06, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/23 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 201 (1.5') (H230979-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2023	ND	2.02	101	2.00	9.99	
Toluene*	<0.050	0.050	03/06/2023	ND	1.99	99.7	2.00	9.31	
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	2.02	101	2.00	9.57	
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.33	106	6.00	9.53	
Total BTEX	<0.300	0.300	03/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/03/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	179	89.3	200	0.0263	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	204	102	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: N SW - 15 (H230979-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2023	ND	2.00	99.9	2.00	0.155		
Toluene*	<0.050	0.050	03/06/2023	ND	1.99	99.6	2.00	0.0835		
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	1.96	97.9	2.00	0.596		
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.01	100	6.00	1.33		
Total BTEX	<0.300	0.300	03/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	179	89.3	200	0.0263	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	204	102	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: N SW - 14 (H230979-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2023	ND	2.00	99.9	2.00	0.155		
Toluene*	<0.050	0.050	03/06/2023	ND	1.99	99.6	2.00	0.0835		
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	1.96	97.9	2.00	0.596		
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.01	100	6.00	1.33		
Total BTEX	<0.300	0.300	03/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	179	89.3	200	0.0263	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	204	102	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 195 (1.5') (H230979-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2023	ND	2.00	99.9	2.00	0.155		
Toluene*	<0.050	0.050	03/06/2023	ND	1.99	99.6	2.00	0.0835		
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	1.96	97.9	2.00	0.596		
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.01	100	6.00	1.33		
Total BTEx	<0.300	0.300	03/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	203	101	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	201	101	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/02/2023
 Reported: 03/06/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 03/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 202 (1.5') (H230979-05)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2023	ND	2.04	102	2.00	4.40	
Toluene*	<0.050	0.050	03/06/2023	ND	2.09	104	2.00	5.45	
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	2.15	107	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.52	109	6.00	6.95	
Total BTEX	<0.300	0.300	03/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/03/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	203	101	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	201	101	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 190 (1.5') (H230979-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2023	ND	2.04	102	2.00	4.40	
Toluene*	<0.050	0.050	03/06/2023	ND	2.09	104	2.00	5.45	
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	2.15	107	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.52	109	6.00	6.95	
Total BTEx	<0.300	0.300	03/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	203	101	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	201	101	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 197 (1.5') (H230979-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2023	ND	2.04	102	2.00	4.40		
Toluene*	<0.050	0.050	03/06/2023	ND	2.09	104	2.00	5.45		
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	2.15	107	2.00	7.48		
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.52	109	6.00	6.95		
Total BTEX	<0.300	0.300	03/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	215	107	200	13.1	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	215	108	200	9.15	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 203 (1.5') (H230979-08)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2023	ND	2.04	102	2.00	4.40	
Toluene*	<0.050	0.050	03/06/2023	ND	2.09	104	2.00	5.45	
Ethylbenzene*	<0.050	0.050	03/06/2023	ND	2.15	107	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/06/2023	ND	6.52	109	6.00	6.95	
Total BTX	<0.300	0.300	03/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	215	107	200	13.1	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	215	108	200	9.15	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 191 (1.5') (H230979-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	215	107	200	13.1	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	215	108	200	9.15	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 198 (1.5') (H230979-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	193	96.4	200	2.85	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	191	95.6	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/02/2023
 Reported: 03/06/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 03/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 30 (4') (H230979-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19	
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61	
Total BTEX	<0.300	0.300	03/03/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	193	96.4	200	2.85	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	191	95.6	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 192 (1.5') (H230979-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	170	85.2	200	28.6	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	169	84.7	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 199 (1.5') (H230979-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	170	85.2	200	28.6	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	169	84.7	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 03/02/2023
 Reported: 03/06/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 03/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N SW - 17 (H230979-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	170	85.2	200	28.6	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	169	84.7	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: N SW - 12 (H230979-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	193	96.4	200	2.85	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	191	95.6	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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

Received: 03/02/2023
 Reported: 03/06/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 03/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 193 (1.5') (H230979-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEx	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	179	89.4	200	0.561	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	203	101	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 200 (1.5') (H230979-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	179	89.4	200	0.561	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	203	101	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: N SW - 16 (H230979-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19	
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61	
Total BTEX	<0.300	0.300	03/03/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	179	89.4	200	0.561	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	203	101	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: N SW - 13 (H230979-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEX	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	184	91.9	200	3.78	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	186	92.9	200	9.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 194 (1.5') (H230979-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2023	ND	2.03	102	2.00	4.19		
Toluene*	<0.050	0.050	03/03/2023	ND	2.00	99.8	2.00	4.93		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	1.96	98.0	2.00	4.58		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	5.99	99.8	6.00	4.61		
Total BTEx	<0.300	0.300	03/03/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/03/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2023	ND	184	91.9	200	3.78	
DRO >C10-C28*	<10.0	10.0	03/06/2023	ND	186	92.9	200	9.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 08, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/06/23 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/06/2023	Sampling Date:	03/06/2023
Reported:	03/08/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 200 (2') (H231019-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	1.97	98.7	2.00	9.55	
Toluene*	<0.050	0.050	03/08/2023	ND	1.95	97.7	2.00	9.61	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.93	96.5	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	5.92	98.6	6.00	9.55	
Total BTEX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/08/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	171	85.6	200	0.383	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	167	83.7	200	0.690	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

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



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

July 07, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/06/23 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 244 (1') (H233451-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEX	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 245 (1') (H233451-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11		
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62		
Total BTEx	<0.300	0.300	07/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	12.6	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 246 (1') (H233451-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 247 (1') (H233451-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 248 (1') (H233451-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTX	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 249 (1') (H233451-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 250 (1') (H233451-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11		
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62		
Total BTX	<0.300	0.300	07/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 251 (1') (H233451-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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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:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 263 (3') (H233451-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 264 (3') (H233451-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11		
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62		
Total BTEx	<0.300	0.300	07/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 265 (3') (H233451-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 266 (3') (H233451-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTX	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 267 (2') (H233451-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11	
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56	
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49	
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62	
Total BTEx	<0.300	0.300	07/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 268 (2') (H233451-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11		
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62		
Total BTEX	<0.300	0.300	07/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 269 (2') (H233451-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2023	ND	2.09	104	2.00	5.11		
Toluene*	<0.050	0.050	07/06/2023	ND	2.05	103	2.00	5.56		
Ethylbenzene*	<0.050	0.050	07/06/2023	ND	2.00	100	2.00	5.49		
Total Xylenes*	<0.150	0.150	07/06/2023	ND	6.07	101	6.00	4.62		
Total BTEX	<0.300	0.300	07/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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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:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 270 (2') (H233451-16)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 271 (2') (H233451-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 272 (2') (H233451-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/07/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 273 (2') (H233451-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712	
Total BTEx	<0.300	0.300	07/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/07/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 274 (2') (H233451-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEx	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	186	93.1	200	9.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	187	93.4	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 18 (H233451-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEx	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 19 (H233451-22)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/06/2023
 Reported: 07/07/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 20 (H233451-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 21 (H233451-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 18 (H233451-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/06/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/06/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 19 (H233451-26)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381		
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349		
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712		
Total BTEX	<0.300	0.300	07/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	194	97.1	200	5.82		
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	202	101	200	5.57		
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2023	Sampling Date:	07/06/2023
Reported:	07/07/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 20 (H233451-27)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.06	103	2.00	0.142	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	0.381	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	1.98	98.9	2.00	0.349	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	5.97	99.4	6.00	0.712	
Total BTEx	<0.300	0.300	07/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/07/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	194	97.1	200	5.82	
DRO >C10-C28*	<10.0	10.0	07/07/2023	ND	202	101	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/07/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Page / of 3

Page 30 of 32



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476
 Page 2 of 3

Company Name: ConocoPhillips Project Manager: Christian Llull Address: christian.llull@tetratech.com City: Phone #: (512) 338-1667 Fax #: NA Project #: 212C-MD-02885 Project Owner: Project Name: Boo Radley 21C CTB Release Project Location: Eddy County, New Mexico		P.O. #: Company: Tetra Tech Attn: Christian Llull Address: City: State: Zip: Phone #: Fax #:	
Sample Name: Joe Tyler FOR LAB USE ONLY		BILL TO ANALYSIS REQUEST	
Lab I.D. H233451 Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : PRESERV SAMPLING	
11 FS-265 (3') 12 FS-266 (3') 13 FS-267 (3') 14 FS-268 (3') 15 FS-269 (3') 16 FS-270 (3') 17 FS-271 (3') 18 FS-272 (3') 19 FS-273 (3') 20 FS-274 (3')		(2003) DATE (TX) TIME 7-6 1150 1200 1210 1220 1230 1240 1250 1300 1330 1340	
TPB BTEX Chlorides Hold		(24-Hour Rush) →	
Relinquished By: Joe Tyler Date: 7-6-23 Time: 1425 Received By: Christian Llull Date: Time:		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: Email Results to:	
Delivered By: (Circle One) Sample - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials)	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 3 of 3

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

July 11, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/10/23 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 15 (H233497-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 16 (H233497-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEX	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 17 (H233497-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 15 (H233497-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 16 (H233497-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 17 (H233497-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTX	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	12.2	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 21 (H233497-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 252 (2') (H233497-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEx	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/11/2023	ND	432	108	400	7.69	

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 253 (2') (H233497-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEx	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 254 (2') (H233497-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 255 (2') (H233497-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEX	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 256 (2') (H233497-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 257 (2') (H233497-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 258 (2') (H233497-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 259 (2') (H233497-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 260 (2') (H233497-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEx	<0.300	0.300	07/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 261 (3') (H233497-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 262 (3') (H233497-18)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789	
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260	
Total BTX	<0.300	0.300	07/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/11/2023	ND	432	108	400	7.69		

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	07/10/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 275 (1') (H233497-19)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789	
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260	
Total BTEx	<0.300	0.300	07/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/11/2023	ND	416	104	400	3.92	QR-03	

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	07/10/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 276 (1') (H233497-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260		
Total BTEx	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/11/2023	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	07/10/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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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:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 277 (1') (H233497-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260		
Total BTEx	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/11/2023	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	07/10/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 278 (1') (H233497-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260		
Total BTEx	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 279 (1') (H233497-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260		
Total BTEx	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 280 (1') (H233497-24)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/10/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.23	104	6.00	0.260		
Total BTEX	<0.300	0.300	07/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 281 (1') (H233497-25)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2023	ND	2.03	101	2.00	0.789	
Toluene*	<0.050	0.050	07/11/2023	ND	1.93	96.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/11/2023	ND	2.07	103	2.00	0.477	
Total Xylenes*	<0.150	0.150	07/11/2023	ND	6.23	104	6.00	0.260	
Total BTEx	<0.300	0.300	07/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 282 (1') (H233497-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/11/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/11/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/11/2023	ND	6.23	104	6.00	0.260		
Total BTEX	<0.300	0.300	07/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 283 (1') (H233497-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/11/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/11/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/11/2023	ND	6.23	104	6.00	0.260		
Total BTEX	<0.300	0.300	07/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 284 (1') (H233497-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/11/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/11/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/11/2023	ND	6.23	104	6.00	0.260		
Total BTEx	<0.300	0.300	07/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/10/2023
 Reported: 07/11/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 285 (1') (H233497-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/11/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/11/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/11/2023	ND	6.23	104	6.00	0.260		
Total BTEX	<0.300	0.300	07/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/10/2023	Sampling Date:	07/10/2023
Reported:	07/11/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 286 (1') (H233497-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2023	ND	2.03	101	2.00	0.789		
Toluene*	<0.050	0.050	07/11/2023	ND	1.93	96.4	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/11/2023	ND	2.07	103	2.00	0.477		
Total Xylenes*	<0.150	0.150	07/11/2023	ND	6.23	104	6.00	0.260		
Total BTEX	<0.300	0.300	07/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/11/2023	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	07/11/2023	ND	176	88.1	200	11.2	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	178	89.1	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 3

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

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

Company Name: ConocoPhillips Project Manager: Christian Lull Address: christian.lull@tetratex.com City: State: Zip: Phone #: (512) 338-1667 Fax #: NA Project #: 212C-MD-02885 Project Owner: Project Name: Boo Radley 21C CTB Release Project Location: Eddy County, New Mexico				P.O. #: Company: Tetra Tech Attn: Christian Lull Address: City: State: Zip: Phone #: Fax #:					
Sample Name: Joe Tyler <small>FOR LAB USE ONLY</small>				BILL TO					
Lab I.D. H233497		Sample I.D.		MATRIX		PRESERV		SAMPLING	
		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME		TPH BTEX Chlorides Hold	
11		FS-255 (2')		X		7-10		1115	
12		FS-256 (2')		X		1120		1130	
13		FS-257 (2')		X		1140		1145	
14		FS-258 (2')		X		1150		1230	
15		FS-259 (2')		X		1300		1310	
16		FS-260 (2')		X					
17		FS-261 (3')		X					
18		FS-262 (3')		X					
19		FS-263 (3')		X					
20		FS-264 (1')		X					

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Relinquished By: Joe Tyler Date: 7-10-23 Time: 16:27		Received By: Christian Lull Date: 7-10-23 Time: 16:27	
Relinquished By: Joe Tyler Date: 7-10-23 Time: 16:27		Received By: Christian Lull Date: 7-10-23 Time: 16:27	

Sample Condition: ☒ Intact ☐ Cool ☐ Yes ☐ No

CHECKED BY: Y.B. (Initials)

Phone Results: ☐ Yes ☐ No **Add'l Phone #:**

Fax Results: ☐ Yes ☐ No **Add'l Fax #:**

Email Results to:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476									
BILL TO									
Company Name: ConocoPhillips					P.O. #:				
Project Manager: Christian Lull					Company: Tetra Tech				
Address: christian.lull@tetratech.com					Attn: Christian Lull				
City:					Address:				
State:					City:				
Zip:					State:				
Phone #: (512) 338-1667					Fax #: NA				
Project #: 212C-MD-02885					Project Owner:				
Project Name: Boo Radley 21C CTB Release					State:				
Project Location: Eddy County, New Mexico					Zip:				
Sample Name: Joe Tyler					Phone #:				
FOR LAB USE ONLY					Fax #:				
LAB I.D.									
Sample I.D.									
Matrix: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:									
Preserv: <input checked="" type="checkbox"/> ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER:									
Sampling: <input type="checkbox"/> DATE: 7-10 (2023) TIME: 1330									
TPH: <input checked="" type="checkbox"/> BTEX: <input checked="" type="checkbox"/> Chlorides: <input checked="" type="checkbox"/> Hold: <input type="checkbox"/>									
24-Hour Rush									
Relinquished By: Joe Tyler									
Date: 7-10-23									
Time: 1627									
Received By: Christian Lull									
Date: 7-10-23									
Time: 1400									
Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No									
CHECKED BY: (Initials) 1400									
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 1400									
Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Add'l Phone #: Add'l Fax #:									
Email Results to:									
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 14, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 8:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 4 (H233584-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12	
Total BTX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 5 (H233584-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 6 (H233584-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 7 (H233584-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 8 (H233584-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 9 (H233584-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/13/2023	ND	400	100	400	7.69	

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 10 (H233584-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 6 (H233584-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/13/2023	ND	400	100	400	7.69	

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 7 (H233584-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 8 (H233584-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	07/13/2023	ND	400	100	400	7.69		

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 9 (H233584-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2023	ND	400	100	400	7.69	

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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: WSW - 10 (H233584-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/13/2023	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	07/13/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 238 (1') (H233584-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 239 (1') (H233584-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 240 (1') (H233584-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 241 (1') (H233584-16)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 242 (1') (H233584-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 243 (1') (H233584-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 263 (4') (H233584-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 265 (4') (H233584-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	1.69		
Toluene*	<0.050	0.050	07/13/2023	ND	2.00	99.8	2.00	3.11		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	2.42		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.01	100	6.00	3.12		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/13/2023	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	07/14/2023	ND	201	101	200	5.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	105	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 267 (3') (H233584-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	4.00	QM-07
Toluene*	<0.050	0.050	07/13/2023	ND	2.28	114	2.00	5.54	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.18	109	2.00	6.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.68	111	6.00	4.97	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/13/2023	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	07/13/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 229 (1') (H233584-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/13/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.68	111	6.00	4.97		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 228 (1') (H233584-23)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00	
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97	
Total BTEx	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 227 (1') (H233584-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 226 (1') (H233584-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 225 (1') (H233584-26)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 224 (1') (H233584-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 223 (1') (H233584-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	12.9	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 222 (1') (H233584-29)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00	
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 221 (1') (H233584-30)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 220 (1') (H233584-31)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00		
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/13/2023	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	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 219 (1') (H233584-32)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.24	112	2.00	4.00	
Toluene*	<0.050	0.050	07/14/2023	ND	2.28	114	2.00	5.54	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.18	109	2.00	6.23	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.68	111	6.00	4.97	
Total BTEx	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 218 (1') (H233584-33)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 217 (1') (H233584-34)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 216 (1') (H233584-35)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 215 (1') (H233584-36)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 214 (1') (H233584-37)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 213 (1') (H233584-38)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322	
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 212 (1') (H233584-39)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 211 (1') (H233584-40)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.322		
Toluene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.17	109	2.00	1.17		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.53	109	6.00	0.893		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	226	113	200	1.64	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	208	104	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 210 (1') (H233584-41)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.25	112	2.00	0.787	
Toluene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.15	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.65	111	6.00	1.17	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 209 (1') (H233584-42)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.25	112	2.00	0.787		
Toluene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	1.84		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.15	108	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.65	111	6.00	1.17		
Total BTX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 208 (1') (H233584-43)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.25	112	2.00	0.787		
Toluene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	1.84		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.15	108	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.65	111	6.00	1.17		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 207 (1') (H233584-44)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.25	112	2.00	0.787		
Toluene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	1.84		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.15	108	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.65	111	6.00	1.17		
Total BTEx	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 205 (1') (H233584-45)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2023	ND	2.25	112	2.00	0.787		
Toluene*	<0.050	0.050	07/13/2023	ND	2.24	112	2.00	1.84		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.15	108	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.65	111	6.00	1.17		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	07/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Page 1 of 5

Company Name: ConocoPhillips				P.O. #:		BILL TO						ANALYSIS REQUEST						
Project Manager: Christian Lulll																		
Address: christian.lulll@tetratech.com																		
City:	State:			Zip:			Attn: Christian Lulll											
Phone #: (512) 338-1667	Fax #: NA			Address:														
Project #: 212C-MD-02885	Project Owner:			City:														
Project Name: Boo Radley 21C CTB Release				State:						Zip:								
Project Location: Eddy County, New Mexico				Phone #:														
Sampler Name:	<i>Tae Zile</i>			Fax #:														
<small>FOR LAB USE ONLY</small>																		
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		MATRIX		PRESERV.		SAMPLING								
				# CONTAINERS														
				GROUNDWATER			SOIL			ACID/BASE:			TPH					
WASTEWATER			OIL			ICE / COOL			BTEX									
			SLUDGE			OTHER :			Chlorides									
			DATE			OTHER :			Hold									
H233584	ESD-4	(3023)	7-12	X	X	X												
1	ESD-5			X	X	X												
2	ESD-6			X	X	X												
3	ESD-9			X	X	X												
4	ESD-8			X	X	X												
5	ESD-9			X	X	X												
6	DSW-10			X	X	X												
7	WSA-6			X	X	X												
8	WSA-7			X	X	X												
9	MSW-8			X	X	X												
10				X	X	X												
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Relinquished By:				Date: 7/13/23		Received By:		Time: 07:45		Phone Results:		Add'l Phone #:						
<i>Joe Zile</i>						<i>[Signature]</i>				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Add'l Fax #: _____						
Relinquished By:				Date: 7/13/23		Received By:		Time: 07:45		Fax Results:		Add'l Fax #:						
<i>Joe Zile</i>						<i>[Signature]</i>				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Add'l Fax #: _____						
Delivered By: (Circle One)				Date: 7/13/23		Received By:		Time: 08:37		Sample Condition		CHECKED BY:						
<i>[Signature]</i>						<i>[Signature]</i>				<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		<i>[Signature]</i>						
Sampler - UPS - Bus - Other:				Label:		Integrity:		Checked:		Initials:		Notes:						
<i>Bus</i>				<i>1 lb e</i>		<i>Yes</i>		<i>Yes</i>		<i>Yes</i>		<i>34 hrs before dry rock</i>						

* Cardinal cannot accept verbal changes. Please fax written changes to (572) 303 3000.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Page 2 of 5

Company Name: ConocoPhillips Project Manager: Christian Llull Address: christian.llull@tetratech.com City: _____ State: _____ Zip: _____ Phone #: (512) 338-1667 Fax #: NA Project #: 212C-MD-02885 Project Owner: _____ Project Name: Boo Radley 21C CTB Release Project Location: Eddy County, New Mexico Sampler Name: Joe Tyle FOR LAB USE ONLY										BILL TO P.O. #: _____ Company: Tetra Tech Attn: Christian Llull Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____										ANALYSIS REQUEST																			
Lab I.D. Sample I.D. H233584										Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										Preserv DATE TIME										Sampling TPH BTEX Chlorides Hold									
11 WSW-9 12 WSW-10 13 FS-238 (1) 14 FS-239 (1) 15 FS-240 (1) 16 FS-241 (1) 17 FS-242 (1) 18 FS-243 (1) 19 FS-263 (4) 20 FS-265 (4)										(G)RAB OR (C)OMP. # CONTAINERS X X X X X X X X X X										(2023) 7-12 X X X X X X X X X										X X X X X X X X X X									
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 analysis. 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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder for Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.										Relinquished By: _____ Date: 7/13/23 Time: 07:45 Received By: _____ Date: 7/13/23 Time: 07:45										Relinquished By: _____ Date: 7/13/23 Time: 07:45 Received By: _____ Date: 7/13/23 Time: 07:45										Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ Email Results to: _____									
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 1.6e										Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition: 24 hrs										CHECKED BY: (Initials) Joe Tyle																			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 5

Company Name: ConocoPhillips		BILL TO		ANALYSIS REQUEST									
Project Manager: Christian Lull		P.O. #:											
Address: christian.lull@tetratech.com		Company: Tetra Tech											
City:		Attn: Christian Lull											
Phone #: (512) 338-1667		Address:											
Fax #: NA		City:											
Project #: 212C-MD-02885		State:											
Project Owner:		Zip:											
Project Name: Boo Radley 21C CTB Release		Phone #:											
Project Location: Eddy County, New Mexico		Fax #:											
Sample Name: Joe Tyler		FOR LAB USE ONLY											
Lab I.D.		Sample I.D.											
H233584		(G)RAB OR (C)OMP.											
21		# CONTAINERS											
22		GROUNDWATER											
23		WASTEWATER											
24		SOIL											
25		OIL											
26		SLUDGE											
27		OTHER :											
28		ACID/BASE:											
29		ICE / COOL											
30		OTHER :											
FS-267 (3')		DATE											
FS-229 (1')		TIME											
FS-228 (1')		TPH											
FS-227 (1')		BTEX											
FS-226 (1')		Chlorides											
FS-225 (1')		Hold											
FS-224 (1')													
FS-223 (1')													
FS-222 (1')													
FS-221 (1')													
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Relinquished By: [Signature]		Date: 7/13/23		Time: 07:45		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool		CHECKED BY: [Signature]		Email Results to: [Signature]			
Delivered By: (Circle One)		Date: 08/27		Time: 08:27		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool		CHECKED BY: [Signature]		Email Results to: [Signature]			
Sampler - UPS - Bus - Other: 1.6c		#146		[Signature]		[Signature]		[Signature]		[Signature]			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 4 of 5

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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Page 5 of 5

Company Name: ConocoPhillips					BILL TO					ANALYSIS REQUEST																								
Project Manager: Christian Llull					P.O. #:																													
Address: christian.llull@tetratech.com					Company: Tetra Tech																													
City:					State:					Attn: Christian Llull																								
Phone #: (512) 338-1667					Fax #: NA					Address:																								
Project #: 212C-MD-02885					Project Owner:					City:																								
Project Name: Boo Radley 21C CTB Release					State:					Zip:																								
Project Location: Eddy County, New Mexico					Phone #:																													
Sampler Name: Joe Tyle					Fax #:																													
<small>FOR LAB USE ONLY</small>																																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING		TPH	BTX	Chlorides	Hold																	
				GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	(DATE)	TIME																						
11233584	FS - 210 (1')	G	1	X						X		7-12		X	X	X																		
41	FS - 209 (1')																																	
42	FS - 208 (1')																																	
43	FS - 207 (1')																																	
44	FS - 206 (1')																																	
45	FS - 205 (1')																																	
<small>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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																		
Relinquished By: [Signature]					Date: 7/13/23					Received By:																								
					Time: 07:45																													
Delivered By: [Signature]					Date: 7/13/23					Received By: [Signature]																								
					Time: 08:37																													
Sampler - UPS - Bus - Other: 1.6c					Cool Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					Sample Condition Checked BY: [Signature]																								
					Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					Initials: VB,																								
Cardinal cannot accept verbal changes. Please fax written changes to (575) 292-2326.					Phone Results: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					Add'l Phone #:																								
					Fax Results: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					Add'l Fax #:																								
					Email Results to:																													



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 14, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 204 (H233607-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 206 (H233607-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTEx	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 230 (H233607-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 231 (H233607-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 232 (H233607-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 233 (H233607-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 234 (H233607-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 235 (H233607-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTEx	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 236 (H233607-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 237 (H233607-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 292 (H233607-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 293 (H233607-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 294 (H233607-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTEx	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 11 (H233607-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/14/2023	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	07/13/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 12 (H233607-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	07/14/2023	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	07/13/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 13 (H233607-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487		
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15		
Total BTX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 14 (H233607-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 22 (H233607-18)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 23 (H233607-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 1 (H233607-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 2 (H233607-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6930	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 3 (H233607-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16700	16.0	07/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 4 (H233607-23)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 11 (H233607-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 12 (H233607-25)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 13 (H233607-26)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEx	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 14 (H233607-27)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 15 (2') (H233607-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 22 (H233607-29)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/13/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: SSW - 1 (H233607-30)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEx	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 2 (H233607-31)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 3 (H233607-32)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 4 (H233607-33)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	07/14/2023	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	07/14/2023	ND	217	109	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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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: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 5 (H233607-34)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	07/14/2023	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	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 16 (2') (H233607-35)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496	
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72	
Total BTEX	<0.300	0.300	07/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/14/2023	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	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/13/2023
 Reported: 07/14/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 17 (2') (H233607-36)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2023	ND	2.01	101	2.00	0.496		
Toluene*	<0.050	0.050	07/14/2023	ND	1.98	99.2	2.00	0.626		
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.95	97.6	2.00	1.65		
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.89	98.2	6.00	2.72		
Total BTEX	<0.300	0.300	07/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/14/2023	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	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian Llull		Company: Tetra Tech					
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Christian Llull					
City: Austin		Address: EMAIL					
Phone #: (512)565-0190		City:					
Fax #: (512)565-0190		State:					
Project #: 212C-MD-02885		Project Owner: ConocoPhillips					
Project Name: Boo Radley 21C CTB Release		City:					
Project Location: Eddy County, New Mexico		State:					
Sampler Name: Colton Bickstaff, Andrew Garcia		Phone #:					
Fax #:		PRESERV.					
Lab I.D.		SAMPLING					
Sample I.D.		(G)RAB OR (C)OMP.					
H233601		# CONTAINERS					
FS-204		GROUNDWATER					
FS-206		WASTEWATER					
FS-230		SOIL					
FS-231		OIL					
FS-232		SLUDGE					
FS-233		OTHER :					
FS-234		ACID/BASE:					
FS-235		ICE / COOL					
FS-236		OTHER :					
FS-237		DATE					
TPH 8015M		TIME					
BTEX 8021B							
Chloride SM4500CI-B							
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:					
All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com							
REMARKS: Joe Tyler at the truck							
Relinquished By: Colton Bickstaff		Date: 7/13/23		Received By: Skodden			
Relinquished By:		Time:		Time:			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #113	
#140		0.7c		<input type="checkbox"/> No <input type="checkbox"/> No		Correction Factor -4.5°C	
FORM-006 R 3.2 10/07/21		Cardinal cannot accept verbal changes. Please email changes to coley.keene@cardinalabnm.com					



c/n

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



ch

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 19, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 204 (2') (H233726-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.15	107	2.00	2.18	
Toluene*	<0.050	0.050	07/19/2023	ND	2.12	106	2.00	3.06	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.03	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.09	101	6.00	0.311	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 205 (2') (H233726-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.15	107	2.00	2.18		
Toluene*	<0.050	0.050	07/19/2023	ND	2.12	106	2.00	3.06		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.03	102	2.00	1.12		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.09	101	6.00	0.311		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	07/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 209 (2') (H233726-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119	
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58	QM-07
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 210 (2') (H233726-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 211 (2') (H233726-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 5 (2') (H233726-06)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119	
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877	
Total BTX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 5 (H233726-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 8 (2') (H233726-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 3 (5') (H233726-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119	
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877	
Total BTEx	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 1 (5') (H233726-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 4 (1') (H233726-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 3 (5') (H233726-12)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 2 (5') (H233726-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 5 (5') (H233726-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 1 (5') (H233726-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTEx	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	165	82.6	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	170	85.2	200	6.78	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 4 (5') (H233726-16)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	200	100	200	6.57	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/18/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 2 (5') (H233726-17)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119		
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877		
Total BTX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/19/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	200	100	200	6.57	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

* 24-Hour Rush

Page 1 of 2

Company Name: ConocoPhillips						P.O. #:			ANALYSIS REQUEST						
Project Manager: Christian Llull						Company: Terra Tech									
Address: christian.llull@tetratex.com						Attn: Christian Llull									
City:						Address:									
Phone #: (512) 338-1667						Fax #: NA									
Project #: 212C-MD-Q2885						City:									
Project Owner:						State:									
Project Location: Eddy County, New Mexico						Zip:									
Sample Name: Joe Tyler						Phone #:									
FOR LAB USE ONLY						Fax #:									
Lab I.D.						Sample I.D.									
H1233726						(G)RAB OR (C)OMP.									
1						# CONTAINERS									
2						GROUNDWATER									
3						WASTEWATER									
4						SOIL									
5						OIL									
6						SLUDGE									
7						OTHER :									
8						ACID/BASE:									
9						ICE / COOL									
10						OTHER :									
SSW-1 (5')						(2033)									
DATE						DATE									
TIME						TIME									
TPH						BTEX									
Chlorides						Hold									
Relinquished By: Joe Tyler						Received By: [Signature]									
Date: 4/15						Time: 11:30									
Relinquished By: Joe Tyler						Received By: [Signature]									
Date: 4/15						Time: 11:30									
Delivered By: (Circle One) 2-2c						Sample Condition									
Sampler - UPS - Bus - Other: #140						Cool Intact									
						Yes No									
						Checked BY: [Signature]									



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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Page 2 of 2

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 19, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/19/23 11:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/19/2023	Sampling Date:	07/19/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 233 (3') (H233743-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.07	103	2.00	0.318	
Toluene*	<0.050	0.050	07/19/2023	ND	2.03	101	2.00	0.784	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.99	99.5	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.00	99.9	6.00	1.32	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/19/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/19/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 263 (6') (H233743-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.07	103	2.00	0.318		
Toluene*	<0.050	0.050	07/19/2023	ND	2.03	101	2.00	0.784		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.99	99.5	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.00	99.9	6.00	1.32		
Total BTEX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/19/2023
 Reported: 07/19/2023
 Project Name: BOO RADLEY 21C CTB RELEASE
 Project Number: 212C - MD - 02885
 Project Location: COP - EDDY COUNTY, NM

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 24 (2') (H233743-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.07	103	2.00	0.318		
Toluene*	<0.050	0.050	07/19/2023	ND	2.03	101	2.00	0.784		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.99	99.5	2.00	0.595		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.00	99.9	6.00	1.32		
Total BTEX	<0.300	0.300	07/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	158	79.2	200	29.5	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	233	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Covace Phillips

Project Manager: Christina Lull

Address:

City: State: Zip:

Phone #: Fax #: NA

Project #: 012C-MD-00885 **Project Owner:**

Project Name: 800 Radley 21C CTB Release

Project Location: Eddy County, New Mexico

Sampler Name: Sue Tyler

P.O. #:

Company: Tetra Tech

Attn: Christina Lull

Address:

City: State: Zip:

Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides	Hold
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									
HE33743																		
1	FS-033 (3')		1			X					X		7-19	0900	X	X	X	
2	FS-263 (6')		1			X					X			0930	X	X	X	
3	ESD-24 (2')		1			X					X			1000	X	X	X	

Relinquished By: *[Signature]* **Date:** 7-19-23 **Received By:** *[Signature]* **Date:** 7-19-23

Relinquished By: *[Signature]* **Date:** **Received By:** *[Signature]* **Date:**

Delivered By: (Circle One) **Sample Condition** **CHECKED BY:** (Initials)

Sampler: UPS - Bus - Other: **Sample Condition** **CHECKED BY:** (Initials)

Sample Condition: Cool ☒ Intact ☒ Yes ☐ No ☐ Yes ☐ No ☐ No

Phone Results: ☐ Yes ☐ No **Add'l Phone #:**

Fax Results: ☐ Yes ☐ No **Add'l Fax #:**

Email Results to:

PRICING 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 analysis. 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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 20, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BOO RADLEY 21C CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/19/23 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/19/2023	Sampling Date:	07/19/2023
Reported:	07/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Jodi Henson
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: ESW - 5 (3') (H233762-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	07/20/2023	ND	2.06	103	2.00	1.08	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	99.0	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.97	99.4	6.00	1.94	
Total BTEX	<0.300	0.300	07/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	180	90.1	200	3.68	
DRO >C10-C28*	13.1	10.0	07/20/2023	ND	176	88.0	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/19/2023	Sampling Date:	07/19/2023
Reported:	07/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Jodi Henson
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: FS - 205 (4') (H233762-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2023	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	07/20/2023	ND	2.06	103	2.00	1.08		
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	99.0	2.00	1.59		
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.97	99.4	6.00	1.94		
Total BTX	<0.300	0.300	07/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	07/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	180	90.1	200	3.68	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	176	88.0	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/19/2023	Sampling Date:	07/19/2023
Reported:	07/20/2023	Sampling Type:	Soil
Project Name:	BOO RADLEY 21C CTB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02885	Sample Received By:	Jodi Henson
Project Location:	COP - EDDY COUNTY, NM		

Sample ID: NSW - 18 (5') (H233762-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	07/20/2023	ND	2.06	103	2.00	1.08	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	99.0	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.97	99.4	6.00	1.94	
Total BTEx	<0.300	0.300	07/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	07/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	180	90.1	200	3.68	
DRO >C10-C28*	10.1	10.0	07/19/2023	ND	176	88.0	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



01 East Marland, Hobbs, NM 88240
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[illegible]

APPENDIX E

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View east across T-11 excavated area to a depth of 4'.	1
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south-southeast of T-6 excavated area.	2
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south-southeast across T-10 excavated area.	3
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View west of the T-2 trench excavated area.	4
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View northeast of T-4 excavated area. Soil was removed to a depth of 4'-4'5'	5
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View southeast of the T-5 excavated area. Soil was removed to a depth of 6'.	6
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south of T-7 trench excavated area.	7
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View southeast of T-11 excavated trench area.	8
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south-southwest of T-1 trench excavated area.	9
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south-southwest across site from T-10 excavation area.	10
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View north over T-7 trench excavation area.	11
	SITE NAME	Boo Radley 21C CTB Release	2/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south over T-9 excavation area.	12
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



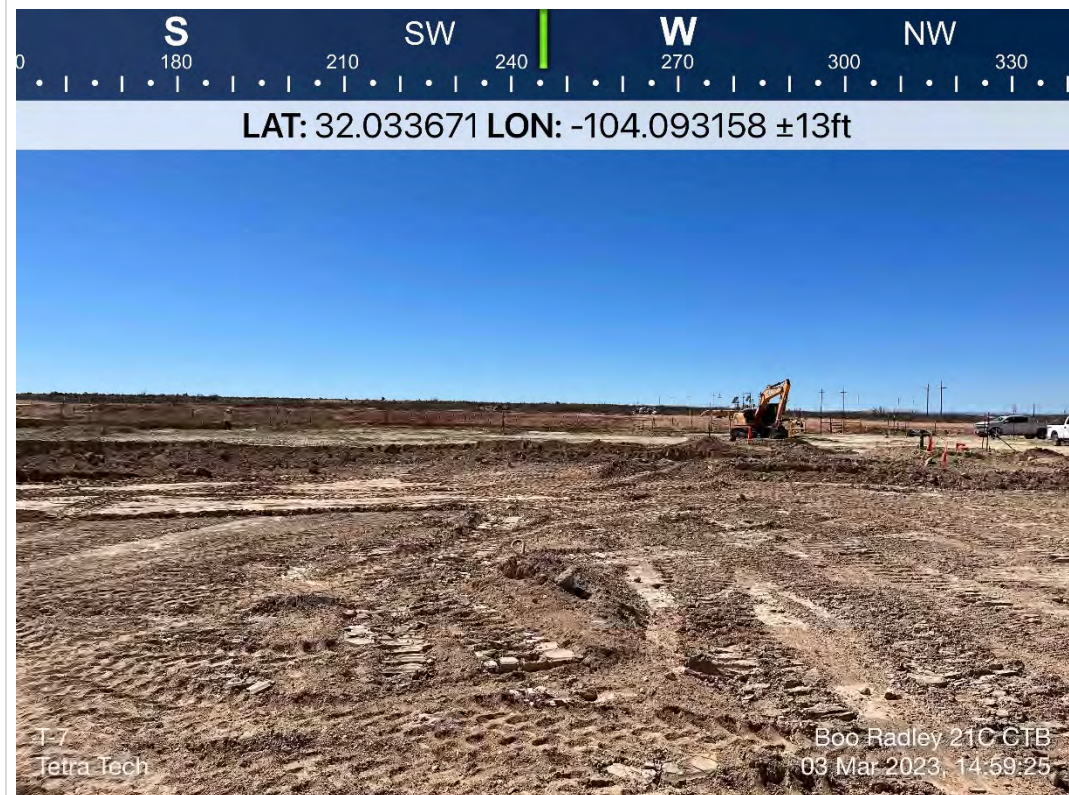
TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View west-northwest across trenched area.	13
	SITE NAME	Boo Radley 21C CTB Release	3/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View east across T-11 excavated trench area.	14
	SITE NAME	Boo Radley 21C CTB Release	2/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View west-southwest of underground utilities near T-7 trench.	15
	SITE NAME	Boo Radley 21C CTB Release	3/3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View west-southwest of site across T-7 excavated area.	16
	SITE NAME	Boo Radley 21C CTB Release	3/3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View east. Excavated area on south side of pad area.	17
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View northwest. Excavated area on west side of pad area.	18
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View west, start of pasture area release extent. Excavated Area, 1-2' BGS.	19
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View northeast away from pad. Excavated Area, 1' BGS.	20
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View north northeast. Excavated area, 1' BGS.	21
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View northeast. Excavated area, 1-2.5' BGS.	22
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View south southwest. Excavated area, 1' BGS.	23
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View north northeast. Excavated area, 1-2' BGS.	24
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View West. Excavated area, 3-6' BGS.	25
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View north. Excavated area, 2-4' BGS.	26
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



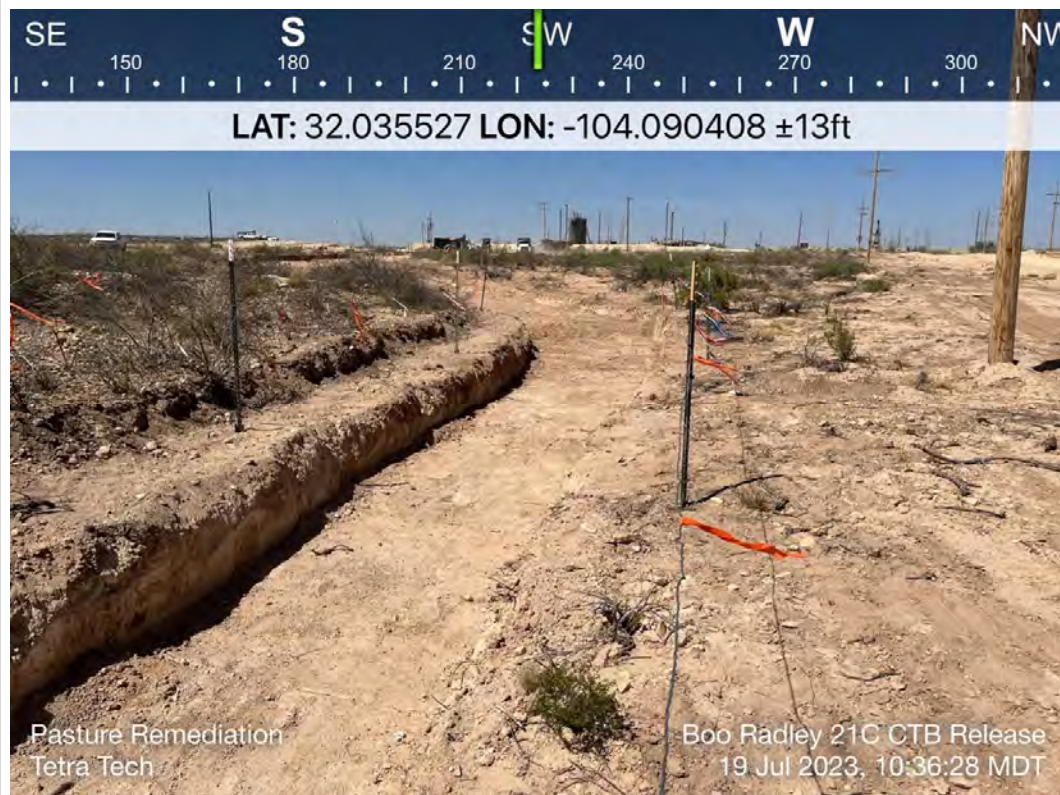
TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View southwest. Excavated area, 2' BGS.	27
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View southwest. Excavated area, 1' BGS.	28
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View north. Excavated area, 1-2' BGS.	29
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View southwest. Northeastern end of the release. Excavated area, 2-3' BGS.	30
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View northwest. Excavated area of lease road.	31
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02885	DESCRIPTION	View southwest. Excavated area of lease road.	32
	SITE NAME	Boo Radley 21C CTB Release	7/19/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 243872

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 243872
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Appears to be duplicate submission. Incident NAPP2230542080 has already been approved and closed.	1/9/2024